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Centimeter

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1 of 12

NRTSC
NUCLEAR REACTOR TECHNOLOGY
AND SCIENTIFIC COMPUTATIONS

WSRC-TR-92-534
Task No.: 92-104-1

KEYWORDS:
ONSET OF FLOW INSTABILITY
ONSET OF SIGNIFICANT VOID
DEMAND CURVES
LOSS OF COOLANT ACCIDENT
ANNULUS

RETENTION:
PERMANENT

NUCLEATE BOILING PRESSURE DROP IN AN ANNULUS,
BOOK 6 (U)

ISSUED: NOVEMBER, 1992

D. Allan Courts

Authorized Derivative Classifier/
Reviewing Official

SRL SAVANNAH RIVER TECHNOLOGY CENTER, AIKEN, SC 29808
Westinghouse Savannah River Corporation
Prepared for the U.S. Department of Energy under
Contract DE-AC09-89SR18035

MASTER

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Test: Nov13_03

sum1

Date: Mon Nov 13 13:12:25 1989

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Velocity 1 = 26.8414 (ft/sec) (+/- 3.4781 %)
 Velocity 2 = 13.3627 (ft/sec) (+/- 3.4861 %)
 Pressure drop = 21.1098 (psi)
 Tsat in = 267.9561 (deg F) Tsat out = 228.6031 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 1052.5610 %)
 Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 817.7512 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.8497	77.4860	77.1000	1.9957e-01	1.9000e+00
1	TRF000002	75.5976	76.0201	75.8089	1.3495e-01	1.9000e+00
2	TFM000001	77.0806	77.9252	77.5346	2.0812e-01	1.9000e+00
3	TIN000001	84.5061	85.2423	84.8324	1.7429e-01	1.9001e+00
4	TRV000001	81.3607	82.3060	81.8415	1.8399e-01	1.9001e+00
5	TSR000001	76.3944	77.1331	76.7725	1.6675e-01	1.9000e+00
6	TAO020136	82.5677	83.6230	83.0682	2.4826e-01	1.9001e+00
7	TAO050136	82.7668	83.3965	83.0839	1.6095e-01	1.9001e+00
8	TAO070136	77.2338	78.0830	77.6058	1.8324e-01	1.9000e+00
9	TAO080136	81.7850	82.4155	82.0189	1.4457e-01	1.9001e+00
10	TAO090136	82.3683	83.2101	82.8290	1.9922e-01	1.9001e+00
11	TAO100136	82.3888	83.0208	82.7068	1.6674e-01	1.9001e+00
12	TAO105136	84.8958	85.8422	85.3398	2.1478e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.0463	1.3782e-01	1.9011e+00
14	TAO115136	81.6929	82.8561	82.3207	2.5043e-01	1.9001e+00
15	EMPTY	34.5420	34.7728	34.6112	1.0682e-01	1.9008e+00
16	TAO125136	84.1166	84.7476	84.4467	1.7637e-01	1.9001e+00
17	TAO130136	82.4760	83.1050	82.7719	1.5926e-01	1.9001e+00
18	EMPTY	224.8616	254.5360	240.9162	6.9302e+00	1.9387e+00
19	TAO130048	84.1244	84.5456	84.3453	1.2256e-01	1.9001e+00
20	TAO120224	80.0092	80.7481	80.3575	2.0135e-01	1.9001e+00
21	EMPTY	-499.9492	-498.4349	-499.2296	3.9927e-01	2.0611e+00
22	TAO120312	82.3613	83.2038	82.7174	1.8786e-01	1.9001e+00
23	TAO130312	82.9965	83.8372	83.3771	1.8014e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5650	1.9521e-01	1.9010e+00
25	TRT070000	82.7296	83.3631	83.0863	1.7585e-01	1.9001e+00
26	TRT100000	83.3836	84.2246	83.8649	2.0034e-01	1.9001e+00
27	TRT120000	82.9268	83.5586	83.2488	1.4641e-01	1.9001e+00
28	TRT125000	85.5150	86.4566	86.0273	2.1477e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.8916	1.3312e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.8994	2.1265e-01	1.9011e+00
31	TAF050136	83.7771	84.5118	84.1489	1.6468e-01	1.9001e+00
32	TAF070136	82.6746	83.7217	83.2716	2.3307e-01	1.9001e+00
33	TAF080136	82.2846	82.9152	82.6604	1.6572e-01	1.9001e+00
34	TAF090136	82.1922	83.3490	82.7706	2.4721e-01	1.9001e+00
35	TAF100136	82.6035	83.4464	83.0817	2.0219e-01	1.9001e+00
36	TAF105136	83.2113	84.3616	83.8402	2.6333e-01	1.9001e+00
37	TAF110136	81.1632	82.1088	81.6950	1.9400e-01	1.9001e+00
38	TAF115136	84.3803	85.3252	84.8188	2.2321e-01	1.9001e+00
39	TAF120136	83.9698	84.3910	84.1824	1.2296e-01	1.9001e+00
40	TAF125136	82.9344	83.5651	83.2517	1.6082e-01	1.9001e+00
41	TAF130136	82.5919	83.3292	82.9857	1.5017e-01	1.9001e+00
42	TAF120048	82.3552	83.2019	82.7928	2.1502e-01	1.9001e+00
43	TAF130048	83.0801	83.7115	83.3433	1.5525e-01	1.9001e+00
44	TAF120224	82.7604	83.6030	83.1798	2.0569e-01	1.9001e+00
45	TAF130224	82.6062	83.2393	82.9799	1.5117e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5707	2.1321e-01	1.9009e+00
47	EMPTY	37.3074	37.7675	37.6755	1.2296e-01	1.9010e+00
48	TAI130048	82.7409	83.8990	83.3873	3.0154e-01	1.9001e+00
49	EMPTY	30.5629	31.0376	30.7813	1.5043e-01	1.9006e+00
50	TAI130224	82.6127	83.6676	83.1505	2.7236e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2457	1.7891e-01	1.9010e+00
52	TRR130000	82.4509	83.2918	82.8442	2.2450e-01	1.9001e+00
53	TSI000001	45.5020	46.3695	46.0160	1.9326e-01	1.9004e+00
54	TSI000002	63.9006	65.0748	64.4623	2.7082e-01	1.9000e+00
55	TSO000001	46.9246	48.1221	47.4931	2.6772e-01	1.9003e+00
56	TSO000002	70.0286	70.8799	70.3374	2.1411e-01	1.9000e+00
57	TAF020136	76.2480	76.9915	76.5776	1.9817e-01	1.9000e+00
58	TAF120312	84.2944	85.0293	84.6955	2.4771e-01	1.9001e+00
59	TAF130312	81.8703	82.5014	82.1755	1.6634e-01	1.9001e+00
60	EMPTY	0.3369	0.3418	0.3414	1.3381e-03	0.0000e+00
61	EMPTY	0.3516	0.3564	0.3563	6.9053e-04	0.0000e+00
62	EMPTY	0.3662	0.3711	0.3703	1.8082e-03	0.0000e+00
63	EMPTY	0.3809	0.3906	0.3857	9.8648e-04	0.0000e+00
64	EMPTY	0.2979	0.3027	0.2979	6.9053e-04	0.0000e+00
65	EMPTY	0.3174	0.3223	0.3184	1.9730e-03	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3368	6.9053e-04	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3561	1.3381e-03	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3702	1.8950e-03	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3872	2.2603e-03	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4049	1.3381e-03	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4288	1.8950e-03	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4434	1.9730e-03	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4637	9.6655e-04	0.0000e+00
74	EMPTY	0.4785	0.4834	0.4787	9.6655e-04	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4978	1.1714e-03	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5126	6.9053e-04	0.0000e+00
77	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5560	1.7115e-03	0.0000e+00
79	EMPTY	0.5762	0.5762	0.5762	0.0000e+00	0.0000e+00
80	PAN020136	69.5461	73.5897	71.5008	1.0767e+00	8.8817e-01
81	PAN050136	133.5642	135.3953	134.4676	4.5604e-01	1.7133e+00
82	PAN070136	98.4630	100.4467	99.4823	3.8496e-01	9.0485e-01
83	PAN080136	44.0818	44.9973	44.5151	2.3651e-01	8.7709e-01
84	PAN090136	44.9330	45.8485	45.5326	1.8497e-01	8.7742e-01
85	PAN100136	41.9786	44.1912	43.0971	4.0828e-01	8.7665e-01
86	PAN105136	23.2153	24.5123	23.7967	3.0474e-01	8.7203e-01
87	PAN110136	23.4478	23.8292	23.6492	8.6865e-02	8.7201e-01
88	PAN115136	29.2461	30.6194	29.9846	2.9466e-01	8.7322e-01
89	PAN120136	19.7223	21.0193	20.3494	2.7499e-01	8.7149e-01
90	PAN125136	22.7373	23.5765	23.1584	1.6330e-01	8.7192e-01
91	PAN130136	21.7759	22.4625	22.1238	1.5036e-01	8.7176e-01
92	PAN120048	46.0791	47.0709	46.5704	2.5845e-01	8.7776e-01
93	PAN130048	44.3115	45.4559	44.7266	2.7058e-01	8.7716e-01
94	PAN120224	51.4537	52.3693	51.8230	1.8455e-01	8.7959e-01
95	PAN130224	44.9495	45.7887	45.2668	1.7733e-01	8.7733e-01
96	PAN120312	46.9698	47.5802	47.2689	1.6590e-01	8.7799e-01
97	PAN130312	43.4623	44.3015	43.8071	2.1647e-01	8.7687e-01
98	PAB000136	40.1790	40.6367	40.3959	1.1470e-01	5.8873e-01
99	PAB100136	24.6205	24.8951	24.7624	6.1520e-02	5.8329e-01
100	PAB125136	20.2347	20.4636	20.3345	5.0392e-02	5.8222e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.9506	40.6830	40.2411	1.5380e-01	7.5672e-01
102	PRV0000001	19.2090	19.3311	19.3262	2.4164e-02	7.5155e-01
103	PSR0000001	16.2764	16.3985	16.3618	5.6508e-02	7.5111e-01
104	PFM0000001	111.2004	114.3132	112.8227	6.8213e-01	5.7407e-01
105	PAN000136	580.9927	588.3169	584.4351	1.5701e+00	5.1324e+00
106	PFM0000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0098	0.0146	0.0099	6.9053e-04	0.0000e+00
108	EMPTY	-5.9082	-3.8867	-5.0248	6.1850e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0068	2.4164e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
112	VPW0000001	-0.0706	0.3200	0.1442	8.1347e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.0870	8.2864e-02	8.1000e-01
114	VPW0000003	-0.1153	0.2753	0.1152	8.5454e-02	8.1000e-01
115	VPW0000004	-0.0353	0.1600	0.0702	9.8332e-02	8.1000e-01
116	VPW0000005	0.0800	0.2753	0.1737	9.8569e-02	8.1000e-01
117	VPW0000006	-0.0400	0.5459	0.1670	1.1443e-01	8.1000e-01
118	IPW0000001	0.3998	4.3045	2.4303	1.0406e+00	8.1000e+00
119	IPW0000002	-1.5516	2.3509	0.0094	9.6563e-01	8.1000e+00
120	IPW0000003	-0.7987	5.0513	1.4243	1.0431e+00	8.1000e+00
121	IPW0000004	0.3000	1.2766	0.6613	3.0897e-01	2.0000e+00
122	IPW0000005	0.4000	1.3764	0.6538	2.6541e-01	2.0000e+00
123	IPW0000006	-0.2883	0.6883	0.0535	2.8334e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0196	3.8825e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0131	2.3008e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0154	2.6762e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0146	3.4863e-03	0.0000e+00
128	IHT0000001	-0.2094	0.1813	0.0367	1.0297e-01	4.1000e+00
129	IHT0000002	0.0706	0.4612	0.1644	1.0617e-01	4.1000e+00
130	IHT0000003	-0.1694	0.4166	0.1236	1.1334e-01	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1748	9.0412e-02	4.1000e+00
132	IHT0000005	-0.1200	0.4659	0.1534	1.1161e-01	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.2142	1.0741e-01	4.1000e+00
134	IHT0000007	0.0400	0.2353	0.1416	9.8569e-02	4.1000e+00
135	IHT0000008	0.0400	0.2353	0.1337	9.8569e-02	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0480	7.9017e-02	4.1000e+00
137	IHT0000010	-0.0400	0.1553	0.1006	8.8585e-02	4.1000e+00
138	IHT0000011	-0.1953	0.1953	0.0664	1.0145e-01	4.1000e+00
139	IHT0000012	-0.0375	0.1578	0.0719	9.7935e-02	4.1000e+00
140	IHT0000013	-0.2047	0.1859	0.0375	9.3043e-02	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1192	6.2265e-02	4.1000e+00
142	IHT0000015	0.0353	0.2306	0.0705	7.5798e-02	4.1000e+00
143	IHT0000016	-0.0800	0.1153	0.0059	9.7935e-02	4.1000e+00
144	IHT0000017	0.1694	1.1459	0.6303	2.4881e-01	4.1000e+00
145	IHT0000018	-0.0353	0.3553	0.0741	1.0559e-01	4.1000e+00
146	IHT0000019	-0.3200	0.0706	-0.1169	7.8523e-02	4.1000e+00
147	IHT0000020	-0.0234	0.1719	0.0273	8.6541e-02	4.1000e+00
148	IHT0000021	-1.3888	-0.8028	-1.0841	1.5364e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	0.0117	6.1257e-02	4.1000e+00
150	IHT0000023	-0.0353	0.1600	0.1209	7.8918e-02	4.1000e+00
151	IHT0000024	0.7853	1.3713	0.9806	9.6655e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3522	7.8523e-02	4.1000e+00
153	IHT0000026	0.0800	0.2753	0.0995	5.9189e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1522	6.7888e-02	4.1000e+00
155	IHT0000028	-0.0047	0.1906	0.0578	9.2034e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.0781	9.6655e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0742	9.5765e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2158	9.8648e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1287	8.2393e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9792	8.3612e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1328	1.0014e-01	4.1000e+00
162	IHT000035	-0.0681	0.5178	0.1350	7.8523e-02	4.1000e+00
163	IHT000036	0.0800	0.2753	0.0956	5.3525e-02	4.1000e+00

Velocity 1 = 26.6853 (ft/sec) (+/- 3.4783 %)

Velocity 2 = 13.3629 (ft/sec) (+/- 3.4861 %)

Pressure drop = 20.8204 (psi)

Tsats in = 268.3480 (deg F) Tsats out = 230.0488 (deg F)

Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 995.3713 %)

Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 820.2297 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	76.8497	77.4860	77.1527	1.4359e-01	1.9000e+00
1	TRF0000002	75.5976	76.2313	75.8476	1.3410e-01	1.9000e+00
-2	TFM0000001	77.0811	78.2413	77.6688	2.2377e-01	1.9000e+00
3	TIN0000001	84.6115	85.2429	84.9077	1.3855e-01	1.9001e+00
4	TRV0000001	81.3607	82.3060	81.8901	2.1851e-01	1.9001e+00
5	TSR0000001	76.4999	77.0287	76.7955	1.2372e-01	1.9000e+00
6	TAO020136	82.6737	83.5175	83.1322	2.3722e-01	1.9001e+00
7	TAO050136	82.8723	83.2927	83.1377	1.1172e-01	1.9001e+00
8	TAO070136	77.0228	77.9770	77.6414	1.9518e-01	1.9000e+00
9	TAO080136	81.7850	82.2069	82.0688	1.0130e-01	1.9001e+00
10	TAO090136	82.4739	83.2096	82.9050	1.8233e-01	1.9001e+00
11	TAO100136	82.2845	83.0208	82.7670	1.6056e-01	1.9001e+00
12	TAO105136	84.8964	85.7374	85.4175	2.2091e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.0600	1.0973e-01	1.9011e+00
14	TAO115136	81.9047	82.8561	82.4997	2.3112e-01	1.9001e+00
15	EMPTY	34.5420	34.7728	34.7351	8.6173e-02	1.9008e+00
16	TAO125136	84.2215	84.7476	84.5199	1.5368e-01	1.9001e+00
17	TAO130136	82.4760	83.1045	82.8146	1.3021e-01	1.9001e+00
18	EMPTY	268.0663	318.3374	283.1605	1.6879e+01	1.9533e+00
19	TAO130048	83.8104	84.6489	84.3308	1.5434e-01	1.9001e+00
20	TAO120224	80.0092	80.8531	80.4378	1.7278e-01	1.9001e+00
21	EMPTY	-502.6035	-501.4652	-501.9528	2.5686e-01	2.0628e+00
22	TAO120312	82.4664	83.0988	82.7870	1.5199e-01	1.9001e+00
23	TAO130312	83.1015	83.7322	83.4557	1.4016e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5421	1.8482e-01	1.9009e+00
25	TRT070000	82.8346	83.4695	83.1863	1.3871e-01	1.9001e+00
26	TRT100000	83.3836	84.3289	83.8727	2.0051e-01	1.9001e+00
27	TRT120000	82.9268	83.5586	83.3005	1.4730e-01	1.9001e+00
28	TRT125000	85.7236	86.4560	86.1061	1.4727e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.8895	1.1596e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9288	1.9829e-01	1.9011e+00
31	TAF050136	83.7771	84.5118	84.1930	1.5142e-01	1.9001e+00
32	TAF070136	82.9877	83.6182	83.3310	1.7477e-01	1.9001e+00
33	TAF080136	82.3896	83.0184	82.7813	1.3336e-01	1.9001e+00
34	TAF090136	82.1925	83.3490	82.8254	2.8840e-01	1.9001e+00
35	TAF100136	82.7089	83.4459	83.1279	1.6155e-01	1.9001e+00
36	TAF105136	83.4195	84.3611	83.8875	2.2685e-01	1.9001e+00
37	TAF110136	81.3730	82.0048	81.7725	1.4066e-01	1.9001e+00
38	TAF115136	84.5896	85.3246	84.8964	1.6012e-01	1.9001e+00
39	TAF120136	83.9698	84.3910	84.2233	1.1332e-01	1.9001e+00
40	TAF125136	82.8302	83.5651	83.2863	1.5961e-01	1.9001e+00
41	TAF130136	82.6973	83.3292	83.0840	1.5100e-01	1.9001e+00
42	TAF120048	82.4591	83.3079	82.8988	2.5219e-01	1.9001e+00
43	TAF130048	83.0801	83.7115	83.4324	1.3852e-01	1.9001e+00
44	TAF120224	82.8660	83.6030	83.2313	1.7067e-01	1.9001e+00
45	TAF130224	82.8182	83.2398	83.0846	1.0778e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5604	2.1299e-01	1.9009e+00
47	EMPTY	37.3074	37.7675	37.6970	1.1696e-01	1.9010e+00
48	TAI130048	82.9515	84.1095	83.4843	2.9649e-01	1.9001e+00
49	EMPTY	30.5629	31.0376	30.8293	1.6525e-01	1.9006e+00
50	TAI130224	82.7177	83.7732	83.2066	2.8634e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2742	1.6905e-01	1.9010e+00
52	TRR130000	82.4509	83.3967	82.9402	2.2437e-01	1.9001e+00
53	TSI000001	45.6104	46.4777	46.0443	1.5645e-01	1.9004e+00
54	TSI000002	63.3669	64.5416	63.9317	2.8567e-01	1.9000e+00
55	TSO000001	46.2710	47.3600	46.7973	2.4687e-01	1.9004e+00
56	TSO000002	69.6036	70.6672	70.1701	2.3724e-01	1.9000e+00
57	TAF020136	76.2480	76.8860	76.6015	1.7811e-01	1.9000e+00
58	TAF120312	84.1895	85.2393	84.7594	2.7402e-01	1.9001e+00
59	TAF130312	81.8703	82.6059	82.2654	1.4940e-01	1.9001e+00
60	EMPTY	0.3418	0.3467	0.3426	1.8234e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3565	6.9754e-04	0.0000e+00
62	EMPTY	0.3662	0.3760	0.3711	9.9670e-04	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3858	6.9754e-04	0.0000e+00
64	EMPTY	0.2979	0.3027	0.2980	6.9754e-04	0.0000e+00
65	EMPTY	0.3174	0.3223	0.3183	1.9103e-03	0.0000e+00
66	EMPTY	0.3369	0.3418	0.3370	6.9754e-04	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3559	1.4934e-03	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3689	2.4538e-03	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3861	1.3508e-03	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4050	1.1827e-03	0.0000e+00
71	EMPTY	0.4248	0.4346	0.4279	2.7646e-03	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4425	2.3783e-03	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4630	1.9103e-03	0.0000e+00
74	EMPTY	0.4785	0.4834	0.4786	6.9754e-04	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4979	6.9754e-04	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5125	9.7615e-04	0.0000e+00
77	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5548	2.3783e-03	0.0000e+00
79	EMPTY	0.5762	0.5859	0.5766	1.6787e-03	0.0000e+00
80	PAN020136	68.5543	75.1156	70.5644	1.2023e+00	8.8771e-01
81	PAN050136	131.2754	134.6323	132.7234	8.1109e-01	1.7125e+00
82	PAN070136	96.4031	99.6837	97.8963	8.4356e-01	9.0377e-01
83	PAN080136	43.3188	45.3788	44.0787	4.1466e-01	8.7695e-01
84	PAN090136	44.3989	45.6959	44.9330	3.2889e-01	8.7722e-01
85	PAN100136	41.2920	43.5808	42.5999	5.5126e-01	8.7649e-01
86	PAN105136	22.8339	24.4360	23.4427	3.0774e-01	8.7197e-01
87	PAN110136	22.9900	23.6003	23.2656	1.7468e-01	8.7194e-01
88	PAN115136	29.1698	30.3905	29.7895	3.6311e-01	8.7318e-01
89	PAN120136	19.4171	20.6378	19.9590	2.7956e-01	8.7143e-01
90	PAN125136	22.6610	23.4240	22.9927	1.9423e-01	8.7190e-01
91	PAN130136	21.4707	22.2336	21.7992	1.8242e-01	8.7171e-01
92	PAN120048	45.2399	47.7576	46.0775	5.2107e-01	8.7759e-01
93	PAN130048	43.3197	44.6930	44.1200	3.3406e-01	8.7696e-01
94	PAN120224	50.7671	51.9878	51.2513	3.1593e-01	8.7938e-01
95	PAN130224	44.1865	45.4072	44.7486	2.8997e-01	8.7716e-01
96	PAN120312	46.2069	47.3513	46.7643	2.7385e-01	8.7782e-01
97	PAN130312	42.8519	43.9200	43.3097	2.7508e-01	8.7671e-01
98	PAB000136	40.3163	41.1860	40.6619	2.2755e-01	5.8884e-01
99	PAB100136	25.0783	25.3987	25.2408	1.1058e-01	5.8342e-01
100	PAB125136	20.7383	21.0587	20.8878	8.0259e-02	5.8235e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.0727	41.0493	40.4812	2.4736e-01	7.5680e-01
102	PRV0000001	19.3311	19.4532	19.4407	3.7334e-02	7.5157e-01
103	PSR0000001	16.8867	17.0088	16.9415	6.1346e-02	7.5119e-01
104	PFM0000001	110.0102	113.3061	111.5068	9.9374e-01	5.7246e-01
105	PAN000136	571.3796	584.6548	576.4243	3.7812e+00	5.1267e+00
106	PFM0000002	27.7669	27.7669	27.7669	1.1563e-05	2.1170e-01
107	EMPTY	0.0049	0.0146	0.0101	1.5467e-03	0.0000e+00
108	EMPTY	-6.0059	-4.0186	-5.0608	5.6252e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0066	2.3483e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0047	9.7615e-04	0.0000e+00
112	VPW0000001	-0.0706	0.3200	0.1486	7.5986e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.0833	8.8783e-02	8.1000e-01
114	VPW0000003	0.0800	0.2753	0.1438	9.2540e-02	8.1000e-01
115	VPW0000004	-0.0353	0.3553	0.0763	1.1276e-01	8.1000e-01
116	VPW0000005	-0.1153	0.4706	0.1358	1.1960e-01	8.1000e-01
117	VPW0000006	-0.0400	0.3506	0.1553	9.7656e-02	8.1000e-01
118	IPW0000001	0.3998	4.3045	2.4319	1.1928e+00	8.1000e+00
119	IPW0000002	-1.5516	2.3509	0.0014	1.1935e+00	8.1000e+00
120	IPW0000003	-0.7987	3.1013	0.7931	1.1026e+00	8.1000e+00
121	IPW0000004	0.3000	1.2766	0.4794	2.5787e-01	2.0000e+00
122	IPW0000005	0.4000	1.3764	0.6590	2.8367e-01	2.0000e+00
123	IPW0000006	-0.7766	0.6883	-0.0790	3.4527e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0187	3.9046e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.6332e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0144	3.5880e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0152	3.2500e-03	0.0000e+00
128	IHT0000001	-0.0141	0.1813	0.0378	8.7123e-02	4.1000e+00
129	IHT0000002	0.0706	0.2659	0.1503	9.6990e-02	4.1000e+00
130	IHT0000003	0.0259	0.2212	0.1176	9.8483e-02	4.1000e+00
131	IHT0000004	-0.0400	0.7412	0.1832	1.1960e-01	4.1000e+00
132	IHT0000005	0.0753	0.2706	0.1311	8.9148e-02	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.1945	9.7323e-02	4.1000e+00
134	IHT0000007	0.0400	0.2353	0.1078	9.3931e-02	4.1000e+00
135	IHT0000008	0.0400	0.2353	0.1038	9.2540e-02	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0076	1.0204e-01	4.1000e+00
137	IHT0000010	-0.0400	0.3506	0.1234	1.0806e-01	4.1000e+00
138	IHT0000011	0.0000	0.1953	0.0917	9.8483e-02	4.1000e+00
139	IHT0000012	-0.0375	0.3531	0.0980	1.0701e-01	4.1000e+00
140	IHT0000013	-0.0094	0.3813	0.0863	1.0640e-01	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1552	9.7490e-02	4.1000e+00
142	IHT0000015	-0.1600	0.2306	0.0752	8.8965e-02	4.1000e+00
143	IHT0000016	-0.0800	0.3106	-0.0043	1.0409e-01	4.1000e+00
144	IHT0000017	0.3647	1.1459	0.6477	2.4917e-01	4.1000e+00
145	IHT0000018	-0.0353	0.1600	0.1002	9.0949e-02	4.1000e+00
146	IHT0000019	-0.3200	0.0706	-0.1127	8.3705e-02	4.1000e+00
147	IHT0000020	-0.2188	0.1719	0.0045	7.9736e-02	4.1000e+00
148	IHT0000021	-1.3888	-0.8028	-1.1217	1.6770e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	0.0040	6.2908e-02	4.1000e+00
150	IHT0000023	-0.0353	0.1600	0.0803	9.6990e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	0.9487	9.2189e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3560	6.2908e-02	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.0800	7.9736e-02	4.1000e+00
154	IHT0000027	-0.0353	0.1600	0.1082	8.7123e-02	4.1000e+00
155	IHT0000028	-0.0047	0.3859	0.0910	1.2041e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.0797	9.6990e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0717	9.5132e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2273	1.1248e-01	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1520	7.9328e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9753	8.9148e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1036	1.0625e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1352	8.8783e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0880	7.9328e-02	4.1000e+00

Velocity 1 = 0.156099 (ft/sec)
 Velocity 2 = 0.000199 (ft/sec)
 Pressure Drop = 0.289400 (psi)
 Tsat in = 0.391907 (deg F) Tsat out = 1.445694 (deg F)
 Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0527	0.0684
1	TRF000002	0.0387	0.0511
2	TFM000001	0.1342	0.1731
3	TIN000001	0.0753	0.0888
4	TRV000001	0.0486	0.0594
5	TSR000001	0.0230	0.0300
6	TAO020136	0.0640	0.0770
7	TAO050136	0.0538	0.0648
8	TAO070136	0.0356	0.0459
9	TAO080136	0.0499	0.0608
10	TAO090136	0.0760	0.0918
11	TAO100136	0.0602	0.0728
12	TAO105136	0.0777	0.0911
13	EMPTY	0.0137	0.0342
14	TAO115136	0.1790	0.2174
15	EMPTY	0.1239	0.3580
16	TAO125136	0.0732	0.0867
17	TAO130136	0.0427	0.0516
18	EMPTY	42.2443	17.5348
19	TAO130048	0.0145	0.0172
20	TAO120224	0.0803	0.0999
21	EMPTY	2.7232	0.5455
22	TAO120312	0.0696	0.0841
23	TAO130312	0.0786	0.0943
24	EMPTY	0.0229	0.0610
25	TRT070000	0.1000	0.1204
26	TRT100000	0.0078	0.0093
27	TRT120000	0.0517	0.0621
28	TRT125000	0.0788	0.0916
29	EMPTY	0.0021	0.0055
30	EMPTY	0.0294	0.0737
31	TAF050136	0.0441	0.0524
32	TAF070136	0.0594	0.0713
33	TAF080136	0.1209	0.1463
34	TAF090136	0.0548	0.0662
35	TAF100136	0.0462	0.0556
36	TAF105136	0.0473	0.0564
37	TAF110136	0.0775	0.0949
38	TAF115136	0.0776	0.0915
39	TAF120136	0.0409	0.0486
40	TAF125136	0.0346	0.0416
41	TAF130136	0.0983	0.1185
42	TAF120048	0.1060	0.1280
43	TAF130048	0.0891	0.1069
44	TAF120224	0.0515	0.0619
45	TAF130224	0.1047	0.1262

#	Name	Abs Diff	%Diff
46	EMPTY	0.0103	0.0282
47	EMPTY	0.0215	0.0571
48	TAI130048	0.0970	0.1163
49	EMPTY	0.0480	0.1559
50	TAI130224	0.0561	0.0675
51	EMPTY	0.0285	0.0745
52	TRR130000	0.0960	0.1159
53	TSI000001	0.0283	0.0615
54	TSI000002	0.5306	0.8231
55	TSO000001	0.6958	1.4651
56	TSO000002	0.1673	0.2379
57	TAF020136	0.0239	0.0312
58	TAF120312	0.0639	0.0754
59	TAF130312	0.0899	0.1094
60	EMPTY	0.0012	0.3515
61	EMPTY	0.0002	0.0561
62	EMPTY	0.0008	0.2160
63	EMPTY	0.0001	0.0259
64	EMPTY	0.0001	0.0336
65	EMPTY	0.0001	0.0314
66	EMPTY	0.0002	0.0594
67	EMPTY	0.0002	0.0562
68	EMPTY	0.0013	0.3512
69	EMPTY	0.0011	0.2841
70	EMPTY	0.0001	0.0247
71	EMPTY	0.0009	0.2099
72	EMPTY	0.0009	0.2030
73	EMPTY	0.0007	0.1510
74	EMPTY	0.0001	0.0209
75	EMPTY	0.0001	0.0201
76	EMPTY	0.0001	0.0195
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0012	0.2158
79	EMPTY	0.0004	0.0694
80	PAN020136	0.9364	1.3096
81	PAN050136	1.7442	1.2971
82	PAN070136	1.5860	1.5943
83	PAN080136	0.4364	0.9803
84	PAN090136	0.5996	1.3169
85	PAN100136	0.4972	1.1537
86	PAN105136	0.3540	1.4876
87	PAN110136	0.3836	1.6220
88	PAN115136	0.1951	0.6507
89	PAN120136	0.3904	1.9185
90	PAN125136	0.1657	0.7155
91	PAN130136	0.3246	1.4672
92	PAN120048	0.4929	1.0584
93	PAN130048	0.6066	1.3562
94	PAN120224	0.5717	1.1032
95	PAN130224	0.5182	1.1448
96	PAN120312	0.5046	1.0675
97	PAN130312	0.4974	1.1354
98	PAB000136	0.2660	0.6585
99	PAB100136	0.4784	1.9320
100	PAB125136	0.5533	2.7210

#	Name	Abs Diff	%Diff
101	PIN000001	0.2401	0.5967
102	PRV000001	0.1145	0.5925
103	PSR000001	0.5797	3.5430
104	PFM000001	1.3159	1.1663
105	PAN000136	8.0108	1.3707
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	2.0202
108	EMPTY	0.0360	0.7165
109	EMPTY	0.0002	2.9412
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0044	3.0513
113	VPW000002	0.0037	4.2529
114	VPW000003	0.0286	24.8264
115	VPW000004	0.0061	8.6895
116	VPW000005	0.0379	21.8192
117	VPW000006	0.0117	7.0060
118	IPW000001	0.0016	0.0658
119	IPW000002	0.0080	85.1064
120	IPW000003	0.6312	44.3165
121	IPW000004	0.1819	27.5064
122	IPW000005	0.0052	0.7953
123	IPW000006	0.1325	247.6636
124	EMPTY	0.0009	4.5918
125	EMPTY	0.0006	4.5802
126	EMPTY	0.0010	6.4935
127	EMPTY	0.0006	4.1096
128	IHT000001	0.0011	2.9973
129	IHT000002	0.0141	8.5766
130	IHT000003	0.0060	4.8544
131	IHT000004	0.0084	4.8055
132	IHT000005	0.0223	14.5372
133	IHT000006	0.0197	9.1970
134	IHT000007	0.0338	23.8701
135	IHT000008	0.0299	22.3635
136	IHT000009	0.0404	84.1667
137	IHT000010	0.0228	22.6640
138	IHT000011	0.0253	38.1024
139	IHT000012	0.0261	36.3004
140	IHT000013	0.0488	130.1333
141	IHT000014	0.0360	30.2013
142	IHT000015	0.0047	6.6667
143	IHT000016	0.0102	172.8813
144	IHT000017	0.0174	2.7606
145	IHT000018	0.0261	35.2227
146	IHT000019	0.0042	3.5928
147	IHT000020	0.0228	83.5165
148	IHT000021	0.0376	3.4683
149	IHT000022	0.0077	65.8120
150	IHT000023	0.0406	33.5815
151	IHT000024	0.0319	3.2531
152	IHT000025	0.0038	1.0789
153	IHT000026	0.0195	19.5980
154	IHT000027	0.0440	28.9093
155	IHT000028	0.0332	57.4394

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0016	2.0487
157	IHT000030	0.0025	3.3693
158	IHT000031	0.0115	5.3290
159	IHT000032	0.0233	18.1041
160	IHT000033	0.0039	0.1971
161	IHT000034	0.0292	21.9879
162	IHT000035	0.0002	0.1481
163	IHT000036	0.0076	7.9498

Velocity 1 = 23.1138 (ft/sec) (+/- 3.4839 %)
Velocity 2 = 13.3630 (ft/sec) (+/- 3.4861 %)
Pressure drop = 14.6452 (psi)
Tsats in = 268.3996 (deg F) Tsats out = 244.1339 (deg F)
Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 726.3610 %)
Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 887.4529 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	76.8497	77.4860	77.1933	1.8123e-01	1.9000e+00
1	TRF0000002	75.5976	76.0201	75.8638	1.1136e-01	1.9000e+00
2	TFM0000001	77.2915	78.2419	77.7858	1.9939e-01	1.9000e+00
3	TIN0000001	84.7164	85.3477	85.0574	1.6536e-01	1.9002e+00
4	TRV0000001	81.6757	82.3065	82.0202	1.8617e-01	1.9001e+00
5	TSR0000001	76.6055	77.1342	76.8508	1.5000e-01	1.9000e+00
6	TAO020136	82.8843	83.6230	83.2221	2.0544e-01	1.9001e+00
7	TAO050136	82.9761	83.6069	83.2456	1.5471e-01	1.9001e+00
8	TAO070136	77.2349	77.9763	77.6034	1.9065e-01	1.9000e+00
9	TAO080136	81.8901	82.4161	82.1680	1.5414e-01	1.9001e+00
10	TAO090136	82.5790	83.4195	83.0245	2.0870e-01	1.9001e+00
11	TAO100136	82.5995	83.3359	82.9277	1.6001e-01	1.9001e+00
12	TAO105136	85.1062	85.8427	85.4891	1.9901e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.1014	1.1689e-01	1.9011e+00
14	TAO115136	82.1154	83.0666	82.5766	2.4048e-01	1.9001e+00
15	EMPTY	34.5420	34.7728	34.6851	1.1314e-01	1.9008e+00
16	TAO125136	84.4314	84.8525	84.6210	1.1640e-01	1.9001e+00
17	TAO130136	82.6866	83.2100	82.9701	1.1443e-01	1.9001e+00
18	EMPTY	216.1143	232.9711	224.4527	3.9139e+00	1.9336e+00
19	TAO130048	84.2293	84.6504	84.4315	1.2169e-01	1.9001e+00
20	TAO120224	80.2200	81.0640	80.5578	2.0098e-01	1.9001e+00
21	EMPTY	-502.9831	-501.4652	-502.1102	2.7906e-01	2.0629e+00
22	TAO120312	82.5714	83.3093	82.9386	1.5819e-01	1.9001e+00
23	TAO130312	83.2070	83.8377	83.5432	1.4405e-01	1.9001e+00
24	EMPTY	37.0772	37.7675	37.5558	1.7291e-01	1.9009e+00
25	TRT070000	83.0466	83.5745	83.3041	1.3184e-01	1.9001e+00
26	TRT100000	83.5941	84.4343	84.0518	2.1713e-01	1.9001e+00
27	TRT120000	83.0318	83.8737	83.4487	1.8887e-01	1.9001e+00
28	TRT125000	85.8289	86.6645	86.2301	1.9285e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9192	1.1004e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9316	2.1290e-01	1.9011e+00
31	TAF050136	83.9875	84.6167	84.3608	1.3274e-01	1.9001e+00
32	TAF070136	82.9892	83.8266	83.4581	2.1387e-01	1.9001e+00
33	TAF080136	82.5985	83.2289	82.9012	1.4310e-01	1.9001e+00
34	TAF090136	82.4021	83.5597	82.9537	3.0691e-01	1.9001e+00
35	TAF100136	82.9192	83.6570	83.2691	1.5847e-01	1.9001e+00
36	TAF105136	83.5250	84.4665	84.0098	2.4057e-01	1.9001e+00
37	TAF110136	81.4781	82.2138	81.8737	1.5841e-01	1.9001e+00
38	TAF115136	84.5896	85.3252	85.0015	1.8833e-01	1.9002e+00
39	TAF120136	84.0747	84.4959	84.2728	1.0978e-01	1.9001e+00
40	TAF125136	83.0394	83.6700	83.4008	1.3607e-01	1.9001e+00
41	TAF130136	82.8023	83.4342	83.1520	1.6394e-01	1.9001e+00
42	TAF120048	82.5658	83.5184	82.9726	2.2373e-01	1.9001e+00
43	TAF130048	83.3956	83.9219	83.6190	1.1388e-01	1.9001e+00
44	TAF120224	82.9710	83.7085	83.3713	1.7016e-01	1.9001e+00
45	TAF130224	82.9224	83.3462	83.1300	1.2237e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	35.9257	37.0772	36.5154	2.2392e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6295	1.1383e-01	1.9010e+00
48	TAI130048	82.9515	84.1095	83.5874	2.9302e-01	1.9001e+00
49	EMPTY	30.5629	31.0376	30.8287	1.8348e-01	1.9006e+00
50	TAI130224	82.7177	83.7732	83.3129	2.9519e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2457	1.8484e-01	1.9010e+00
52	TRR130000	82.5565	83.5022	83.1069	2.5336e-01	1.9001e+00
53	TSI000001	45.0697	46.2617	45.9101	2.1853e-01	1.9004e+00
54	TSI000002	62.8335	64.0083	63.4359	2.6307e-01	1.9000e+00
55	TSO000001	46.0518	47.0322	46.5315	2.2763e-01	1.9004e+00
56	TSO000002	69.7098	70.6673	70.1651	2.0844e-01	1.9000e+00
57	TAF020136	76.3541	77.0976	76.6602	1.9278e-01	1.9000e+00
58	TAF120312	84.2950	85.4487	84.8362	2.6747e-01	1.9001e+00
59	TAF130312	82.0810	82.8165	82.3793	1.5358e-01	1.9001e+00
60	EMPTY	0.3418	0.3467	0.3426	1.8082e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3572	1.8082e-03	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3714	1.1714e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3879	2.4484e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2974	1.4797e-03	0.0000e+00
65	EMPTY	0.3174	0.3174	0.3174	0.0000e+00	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3336	2.3008e-03	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3518	9.6655e-04	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3663	6.9053e-04	0.0000e+00
69	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4009	1.4797e-03	0.0000e+00
71	EMPTY	0.4248	0.4248	0.4248	0.0000e+00	0.0000e+00
72	EMPTY	0.4346	0.4443	0.4395	9.8648e-04	0.0000e+00
73	EMPTY	0.4541	0.4639	0.4591	1.2041e-03	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4750	2.2146e-03	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4933	6.9053e-04	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5079	6.9053e-04	0.0000e+00
77	EMPTY	0.5273	0.5322	0.5281	1.8082e-03	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5519	6.9053e-04	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5753	1.8950e-03	0.0000e+00
80	PAN020136	47.6498	50.5490	48.9788	6.5451e-01	8.7857e-01
81	PAN050136	92.2129	93.8914	93.1894	3.8994e-01	1.6961e+00
82	PAN070136	68.4032	70.0054	69.3553	3.4885e-01	8.8711e-01
83	PAN080136	30.7303	31.6459	31.2263	2.2083e-01	8.7350e-01
84	PAN090136	31.2764	32.0393	31.6472	1.4542e-01	8.7359e-01
85	PAN100136	29.6953	30.4583	30.1500	1.6741e-01	8.7326e-01
86	PAN105136	15.6622	16.1963	15.9445	1.2063e-01	8.7091e-01
87	PAN110136	15.8184	16.2761	16.0381	9.9463e-02	8.7092e-01
88	PAN115136	21.6167	22.5322	22.0867	1.8900e-01	8.7175e-01
89	PAN120136	13.1610	13.6188	13.3701	1.2216e-01	8.7064e-01
90	PAN125136	16.6338	17.2441	16.9252	1.1605e-01	8.7103e-01
91	PAN130136	14.7568	15.1383	14.9598	9.0679e-02	8.7080e-01
92	PAN120048	31.5833	32.7277	32.1204	2.4515e-01	8.7370e-01
93	PAN130048	30.8075	31.5704	31.2271	1.5963e-01	8.7350e-01
94	PAN120224	36.3475	36.9579	36.6329	1.5705e-01	8.7481e-01
95	PAN130224	31.4454	32.0558	31.7186	1.2812e-01	8.7361e-01
96	PAN120312	32.9318	33.6184	33.2888	1.4247e-01	8.7397e-01
97	PAN130312	30.3397	30.9501	30.7227	1.3656e-01	8.7338e-01
98	PAB000136	40.4994	40.8656	40.6971	9.1291e-02	5.8886e-01
99	PAB100136	29.8848	30.0679	29.9562	4.3535e-02	5.8481e-01
100	PAB125136	26.8265	26.9639	26.8870	3.9714e-02	5.8388e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.1948	40.9272	40.5707	1.2291e-01	7.5683e-01
102	PRV0000001	20.4297	20.4297	20.4297	1.3487e-05	7.5174e-01
103	PSR0000001	23.8448	23.9668	23.8716	5.1081e-02	7.5237e-01
104	PFM0000001	82.8190	84.3754	83.5643	3.7453e-01	5.4189e-01
105	PAN000136	402.0071	408.4158	405.4586	1.3472e+00	5.0233e+00
106	PFM0000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0095	1.1714e-03	0.0000e+00
108	EMPTY	-5.8057	-3.8721	-5.0744	5.6224e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0036	2.1635e-03	0.0000e+00
112	VPW0000001	-0.0706	0.3200	0.1364	9.1779e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.0831	8.7880e-02	8.1000e-01
114	VPW0000003	-0.1153	0.2753	0.1503	1.0259e-01	8.1000e-01
115	VPW0000004	-0.0353	0.3553	0.0975	1.0014e-01	8.1000e-01
116	VPW0000005	0.0800	0.4706	0.1659	1.0559e-01	8.1000e-01
117	VPW0000006	-0.0400	0.5459	0.1709	1.0320e-01	8.1000e-01
118	IPW0000001	0.3998	4.3045	1.6493	1.0255e+00	8.1000e+00
119	IPW0000002	-1.5516	2.3509	0.4386	1.0789e+00	8.1000e+00
120	IPW0000003	1.1513	5.0513	2.2043	1.1288e+00	8.1000e+00
121	IPW0000004	0.3000	1.2766	0.7004	2.1364e-01	2.0000e+00
122	IPW0000005	-0.0883	0.8882	0.4488	2.2601e-01	2.0000e+00
123	IPW0000006	-0.2883	0.6883	0.0828	3.0501e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0187	3.3728e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.6100e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0157	3.5962e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0152	3.0628e-03	0.0000e+00
128	IHT0000001	-0.0141	0.1813	0.0289	8.1729e-02	4.1000e+00
129	IHT0000002	0.0706	0.2659	0.1605	9.8332e-02	4.1000e+00
130	IHT0000003	-0.1694	0.2212	0.1119	1.0559e-01	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1514	6.2265e-02	4.1000e+00
132	IHT0000005	-0.1200	0.2706	0.1378	1.0014e-01	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.2103	7.8523e-02	4.1000e+00
134	IHT0000007	0.0400	0.2353	0.1181	9.6655e-02	4.1000e+00
135	IHT0000008	0.0400	0.2353	0.1416	9.8569e-02	4.1000e+00
136	IHT0000009	-0.1200	0.0753	0.0167	9.0412e-02	4.1000e+00
137	IHT0000010	-0.0400	0.1553	0.1241	7.2330e-02	4.1000e+00
138	IHT0000011	0.0000	0.1953	0.0703	9.4702e-02	4.1000e+00
139	IHT0000012	-0.0375	0.3531	0.0914	1.0145e-01	4.1000e+00
140	IHT0000013	-0.0094	0.1859	0.0648	9.5765e-02	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1309	1.0320e-01	4.1000e+00
142	IHT0000015	0.0353	0.2306	0.0861	8.6541e-02	4.1000e+00
143	IHT0000016	-0.0800	0.1153	0.0177	9.8648e-02	4.1000e+00
144	IHT0000017	0.1694	0.9506	0.6694	2.2722e-01	4.1000e+00
145	IHT0000018	-0.0353	0.1600	0.0467	9.7377e-02	4.1000e+00
146	IHT0000019	-0.3200	0.0706	-0.1247	7.8918e-02	4.1000e+00
147	IHT0000020	-0.2188	0.1719	0.0156	8.8233e-02	4.1000e+00
148	IHT0000021	-1.3888	-0.8028	-1.0684	1.5160e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	0.0000	3.9459e-02	4.1000e+00
150	IHT0000023	-0.0353	0.1600	0.0858	9.5765e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	0.9455	9.4125e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3756	7.7324e-02	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.0761	6.2265e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1287	8.2393e-02	4.1000e+00
155	IHT0000028	-0.2000	0.3859	0.0422	1.2200e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.0859	1.0559e-01	4.1000e+00
157	IHT000030	0.0000	0.3906	0.1094	1.0559e-01	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2158	9.0412e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1327	9.6735e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9675	7.8523e-02	4.1000e+00
161	IHT000034	0.0000	0.1953	0.1133	9.7377e-02	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1428	8.6810e-02	4.1000e+00
163	IHT000036	-0.1153	0.4706	0.1191	9.6655e-02	4.1000e+00

Velocity 1 = 23.0834 (ft/sec) (+/- 3.4840 %)
Velocity 2 = 13.3630 (ft/sec) (+/- 3.4861 %)
Pressure drop = 14.6720 (psi)
Tsats in = 268.1473 (deg F) Tsats out = 243.6698 (deg F)
Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 661.8749 %)
Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 989.9190 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.8497	77.4860	77.1787	1.8901e-01	1.9000e+00
1	TRF000002	75.5976	76.0201	75.8390	1.3635e-01	1.9000e+00
2	TFM000001	77.1866	78.3473	77.7722	2.3108e-01	1.9000e+00
3	TIN000001	84.7164	85.3477	85.0451	1.7654e-01	1.9002e+00
4	TRV000001	81.5705	82.5157	81.9587	1.9688e-01	1.9001e+00
5	TSR000001	76.4999	77.1342	76.8127	1.5544e-01	1.9000e+00
6	TAO020136	82.6738	83.6230	83.1150	2.5617e-01	1.9001e+00
7	TAO050136	82.9761	83.6069	83.2531	1.5853e-01	1.9001e+00
8	TAO070136	77.2343	77.9763	77.6544	1.9096e-01	1.9000e+00
9	TAO080136	81.8901	82.5211	82.1500	1.7568e-01	1.9001e+00
10	TAO090136	82.6840	83.5250	83.0036	1.6892e-01	1.9001e+00
11	TAO100136	82.4944	83.2304	82.8528	1.5176e-01	1.9001e+00
12	TAO105136	84.8964	85.9474	85.4734	2.2104e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.0787	1.1855e-01	1.9011e+00
14	TAO115136	82.1160	82.9611	82.5904	2.0245e-01	1.9001e+00
15	EMPTY	34.5420	34.7728	34.7539	6.3836e-02	1.9008e+00
16	TAO125136	84.3270	84.9574	84.6184	1.5949e-01	1.9001e+00
17	TAO130136	82.5815	83.2100	82.9163	1.5567e-01	1.9001e+00
18	EMPTY	225.4294	239.3382	231.9840	3.3007e+00	1.9359e+00
19	TAO130048	84.2293	84.6504	84.4120	1.3705e-01	1.9001e+00
20	TAO120224	80.2200	80.9588	80.5282	1.7201e-01	1.9001e+00
21	EMPTY	-501.4652	-499.5704	-500.7534	3.7610e-01	2.0620e+00
22	TAO120312	82.4664	83.3093	82.8429	1.9710e-01	1.9001e+00
23	TAO130312	83.1020	83.8377	83.4857	1.5414e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5750	1.7156e-01	1.9010e+00
25	TRT070000	82.9396	83.6800	83.2944	1.6912e-01	1.9001e+00
26	TRT100000	83.4886	84.4338	84.0226	2.2470e-01	1.9001e+00
27	TRT120000	83.0318	83.7682	83.3821	1.6557e-01	1.9001e+00
28	TRT125000	85.8289	86.5613	86.1828	1.7719e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9083	1.2255e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9429	2.0473e-01	1.9011e+00
31	TAF050136	83.9881	84.6172	84.2957	1.6657e-01	1.9001e+00
32	TAF070136	82.8837	83.9321	83.4206	2.1344e-01	1.9001e+00
33	TAF080136	82.4952	83.2289	82.8496	1.7759e-01	1.9001e+00
34	TAF090136	82.1922	83.3490	82.9284	2.5759e-01	1.9001e+00
35	TAF100136	82.9192	83.6564	83.2054	1.7193e-01	1.9001e+00
36	TAF105136	83.4195	84.4665	83.9982	2.6061e-01	1.9001e+00
37	TAF110136	81.4781	82.3194	81.8410	1.5355e-01	1.9001e+00
38	TAF115136	84.5896	85.3246	84.9649	1.9166e-01	1.9002e+00
39	TAF120136	84.0747	84.4959	84.2703	1.4234e-01	1.9001e+00
40	TAF125136	83.0394	83.6700	83.4016	1.6749e-01	1.9001e+00
41	TAF130136	82.8023	82.4342	83.1141	1.5188e-01	1.9001e+00
42	TAF120048	82.5652	83.6255	83.0157	2.1218e-01	1.9001e+00
43	TAF130048	83.3956	83.8170	83.5699	1.2073e-01	1.9001e+00
44	TAF120224	82.8660	83.7079	83.3215	1.9849e-01	1.9001e+00
45	TAF130224	82.7118	83.3462	83.1106	1.4482e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5510	1.9381e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6313	1.1423e-01	1.9010e+00
48	TAI130048	83.0570	84.1094	83.5703	2.7652e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8148	1.8391e-01	1.9006e+00
50	TAI130224	82.7177	83.6676	83.2454	2.9218e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2742	1.6905e-01	1.9010e+00
52	TRR130000	82.5559	83.5022	83.0259	2.0478e-01	1.9001e+00
53	TSI000001	45.2854	46.2617	45.8057	2.4735e-01	1.9004e+00
54	TSI000002	63.0465	64.4354	63.5615	3.2896e-01	1.9000e+00
55	TSO000001	46.1617	47.2502	46.6994	2.2920e-01	1.9004e+00
56	TSO000002	69.7098	70.7733	70.2179	2.6704e-01	1.9000e+00
57	TAF020136	76.2480	77.0976	76.6232	1.8023e-01	1.9000e+00
58	TAF120312	84.2944	85.3441	84.8151	2.9664e-01	1.9001e+00
59	TAF130312	81.9754	82.8165	82.3511	1.9427e-01	1.9001e+00
60	EMPTY	0.3369	0.3467	0.3435	2.5510e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3587	2.4621e-03	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3718	1.7263e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3894	2.1215e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2975	1.3508e-03	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3173	6.9754e-04	0.0000e+00
66	EMPTY	0.3320	0.3418	0.3333	2.3953e-03	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3518	9.7615e-04	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3663	6.9754e-04	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3856	6.9754e-04	0.0000e+00
70	EMPTY	0.3955	0.4053	0.4004	9.9670e-04	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4249	6.9754e-04	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4394	6.9754e-04	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4591	6.9754e-04	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4744	1.8234e-03	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4933	6.9754e-04	0.0000e+00
76	EMPTY	0.5078	0.5176	0.5083	1.7954e-03	0.0000e+00
77	EMPTY	0.5273	0.5322	0.5281	1.8234e-03	0.0000e+00
78	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5748	2.2287e-03	0.0000e+00
80	PAN020136	47.8787	50.3964	49.0900	5.2017e-01	8.7861e-01
81	PAN050136	92.6707	94.0439	93.2903	3.2430e-01	1.6961e+00
82	PAN070136	68.2506	69.9291	69.4433	3.5090e-01	8.8715e-01
83	PAN080136	30.8829	31.9510	31.3158	2.7657e-01	8.7352e-01
84	PAN090136	31.5052	32.0393	31.6936	1.2371e-01	8.7360e-01
85	PAN100136	29.8479	30.3820	30.1173	1.1871e-01	8.7325e-01
86	PAN105136	15.5859	16.2726	15.9658	1.2506e-01	8.7092e-01
87	PAN110136	15.8184	16.2761	16.0706	1.0117e-01	8.7093e-01
88	PAN115136	21.7693	22.4559	22.0931	1.7168e-01	8.7175e-01
89	PAN120136	13.0847	13.7714	13.3946	1.2303e-01	8.7064e-01
90	PAN125136	16.6338	17.1678	16.9561	1.2961e-01	8.7103e-01
91	PAN130136	14.8331	15.1383	14.9904	8.4454e-02	8.7081e-01
92	PAN120048	31.7358	32.8040	32.2310	2.3522e-01	8.7372e-01
93	PAN130048	31.0364	31.4941	31.2559	1.3722e-01	8.7350e-01
94	PAN120224	36.4238	36.9579	36.6854	1.3306e-01	8.7482e-01
95	PAN130224	31.4454	31.9795	31.7631	1.3154e-01	8.7362e-01
96	PAN120312	33.0081	33.6184	33.3522	1.5583e-01	8.7399e-01
97	PAN130312	30.4160	31.0264	30.7741	1.2767e-01	8.7340e-01
98	PAB000136	40.3163	40.6825	40.5256	7.4166e-02	5.8878e-01
99	PAB100136	29.6559	29.8390	29.7474	4.4813e-02	5.8475e-01
100	PAB125136	26.5977	26.7350	26.6696	3.6189e-02	5.8382e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1948	40.6830	40.4040	1.1950e-01	7.5677e-01
102	PRV000001	20.3076	20.4297	20.3325	4.9708e-02	7.5172e-01
103	PSR000001	23.6006	23.7227	23.7003	4.7758e-02	7.5234e-01
104	PFM000001	82.6359	84.1008	83.3441	3.6563e-01	5.4168e-01
105	PAN000136	403.8381	409.3313	406.2017	1.2231e+00	5.0237e+00
106	PFM000002	27.7669	27.7669	27.7669	1.1563e-05	2.1170e-01
107	EMPTY	0.0049	0.0195	0.0099	1.5727e-03	0.0000e+00
108	EMPTY	-6.0059	-3.9258	-5.2399	5.7031e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0052	1.1827e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0036	2.1781e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1406	9.6318e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0913	6.7148e-02	8.1000e-01
114	VPW000003	-0.1153	0.4706	0.1478	1.0955e-01	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0843	9.6150e-02	8.1000e-01
116	VPW000005	-0.1153	0.2753	0.1358	1.0548e-01	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1314	8.5810e-02	8.1000e-01
118	IPW000001	0.3998	4.3045	1.3162	1.1344e+00	8.1000e+00
119	IPW000002	0.3996	4.3022	1.0766	1.0195e+00	8.1000e+00
120	IPW000003	1.1513	5.0513	2.7431	1.1723e+00	8.1000e+00
121	IPW000004	0.3000	1.2766	0.7185	2.2287e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.1509	2.6597e-01	2.0000e+00
123	IPW000006	-0.2883	1.1766	0.1502	3.1902e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0198	2.8901e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0096	-0.0142	2.6828e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0166	3.2934e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0149	3.2155e-03	0.0000e+00
128	IHT000001	-0.2094	0.3766	0.0338	1.0941e-01	4.1000e+00
129	IHT000002	-0.1247	0.4612	0.1344	1.2215e-01	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1176	1.2028e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1713	6.7148e-02	4.1000e+00
132	IHT000005	0.0753	0.4659	0.1391	1.0076e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.1985	1.0156e-01	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1157	9.6150e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.0918	8.7123e-02	4.1000e+00
136	IHT000009	-0.3153	0.0753	-0.0004	1.0409e-01	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1593	7.4477e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.1116	9.7656e-02	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.1259	1.0044e-01	4.1000e+00
140	IHT000013	-0.0094	0.1859	0.0664	9.6150e-02	4.1000e+00
141	IHT000014	-0.0800	0.7013	0.1592	1.2135e-01	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0911	8.9148e-02	4.1000e+00
143	IHT000016	-0.0800	0.3106	0.0077	1.0594e-01	4.1000e+00
144	IHT000017	0.1694	1.1459	0.6357	1.9861e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.0643	1.0640e-01	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.1207	7.4477e-02	4.1000e+00
147	IHT000020	-0.2188	0.1719	0.0284	9.5812e-02	4.1000e+00
148	IHT000021	-1.1934	-0.8028	-1.0021	1.4643e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0000	6.9053e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.0962	9.2540e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	0.9687	8.3705e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3640	8.4477e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0840	4.8662e-02	4.1000e+00
154	IHT000027	-0.0353	0.1600	0.1201	7.9532e-02	4.1000e+00
155	IHT000028	-0.0047	0.1906	0.0591	9.2540e-02	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.1036	9.8483e-02	4.1000e+00
157	IHT000030	0.0000	0.3906	0.1036	1.0625e-01	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2433	8.8783e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1520	5.5804e-02	4.1000e+00
160	IHT000033	-1.9753	-1.7800	-1.9115	9.2540e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1315	1.0836e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1352	7.9328e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0880	6.8582e-02	4.1000e+00

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Velocity 1 = 0.030399 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.026800 (psi)

Tsat in = 0.252289 (deg F) Tsat out = 0.464096 (deg F)

Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2) *

#	Name	Abs Diff	%Diff
0	TRF000001	0.0146	0.0189
1	TRF000002	0.0248	0.0327
2	TFM000001	0.0136	0.0175
3	TIN000001	0.0123	0.0145
4	TRV000001	0.0615	0.0750
5	TSR000001	0.0381	0.0496
6	TAO020136	0.1071	0.1287
7	TAO050136	0.0075	0.0090
8	TAO070136	0.0510	0.0657
9	TAO080136	0.0180	0.0219
10	TAO090136	0.0209	0.0252
11	TAO100136	0.0749	0.0903
12	TAO105136	0.0157	0.0184
13	EMPTY	0.0227	0.0566
14	TAO115136	0.0138	0.0167
15	EMPTY	0.0688	0.1984
16	TAO125136	0.0026	0.0031
17	TAO130136	0.0538	0.0648
18	EMPTY	7.5313	3.3554
19	TAO130048	0.0195	0.0231
20	TAO120224	0.0296	0.0367
21	EMPTY	1.3568	0.2702
22	TAO120312	0.0957	0.1154
23	TAO130312	0.0575	0.0688
24	EMPTY	0.0192	0.0511
25	TRT070000	0.0097	0.0116
26	TRT100000	0.0292	0.0347
27	TRT120000	0.0666	0.0798
28	TRT125000	0.0473	0.0549
29	EMPTY	0.0109	0.0288
30	EMPTY	0.0113	0.0283
31	TAF050136	0.0651	0.0772
32	TAF070136	0.0375	0.0449
33	TAF080136	0.0516	0.0622
34	TAF090136	0.0253	0.0305
35	TAF100136	0.0637	0.0765
36	TAF105136	0.0116	0.0138
37	TAF110136	0.0327	0.0399
38	TAF115136	0.0366	0.0431
39	TAF120136	0.0025	0.0030
40	TAF125136	0.0008	0.0010
41	TAF130136	0.0379	0.0456
42	TAF120048	0.0431	0.0519
43	TAF130048	0.0491	0.0587
44	TAF120224	0.0498	0.0597
45	TAF130224	0.0194	0.0233

#	Name	Abs Diff	%Diff
46	EMPTY	0.0356	0.0975
47	EMPTY	0.0018	0.0048
48	TAI130048	0.0171	0.0205
49	EMPTY	0.0139	0.0451
50	TAI130224	0.0675	0.0810
51	EMPTY	0.0285	0.0745
52	TRR130000	0.0810	0.0975
53	TSI000001	0.1044	0.2274
54	TSI000002	0.1256	0.1980
55	TSO000001	0.1679	0.3608
56	TSO000002	0.0528	0.0753
57	TAF020136	0.0370	0.0483
58	TAF120312	0.0211	0.0249
59	TAF130312	0.0282	0.0342
60	EMPTY	0.0009	0.2627
61	EMPTY	0.0015	0.4199
62	EMPTY	0.0004	0.1077
63	EMPTY	0.0015	0.3867
64	EMPTY	0.0001	0.0336
65	EMPTY	0.0001	0.0315
66	EMPTY	0.0003	0.0899
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0001	0.0259
70	EMPTY	0.0005	0.1247
71	EMPTY	0.0001	0.0235
72	EMPTY	0.0001	0.0228
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0006	0.1263
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0004	0.0788
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0001	0.0181
79	EMPTY	0.0005	0.0869
80	PAN020136	0.1112	0.2270
81	PAN050136	0.1009	0.1083
82	PAN070136	0.0880	0.1269
83	PAN080136	0.0895	0.2866
84	PAN090136	0.0464	0.1466
85	PAN100136	0.0327	0.1085
86	PAN105136	0.0213	0.1336
87	PAN110136	0.0325	0.2027
88	PAN115136	0.0064	0.0290
89	PAN120136	0.0245	0.1832
90	PAN125136	0.0309	0.1826
91	PAN130136	0.0306	0.2046
92	PAN120048	0.1106	0.3443
93	PAN130048	0.0288	0.0922
94	PAN120224	0.0525	0.1433
95	PAN130224	0.0445	0.1403
96	PAN120312	0.0634	0.1905
97	PAN130312	0.0514	0.1673
98	PAB000136	0.1715	0.4214
99	PAB100136	0.2088	0.6970
100	PAB125136	0.2174	0.8086

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1667	0.4109
102	PRV000001	0.0972	0.4758
103	PSR000001	0.1713	0.7176
104	PFM000001	0.2202	0.2635
105	PAN000136	0.7431	0.1833
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0004	4.2105
108	EMPTY	0.1655	3.2615
109	EMPTY	0.0003	5.4545
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0042	3.0792
113	VPW000002	0.0082	9.8676
114	VPW000003	0.0025	1.6633
115	VPW000004	0.0132	13.5385
116	VPW000005	0.0301	18.1435
117	VPW000006	0.0395	23.1129
118	IPW000001	0.3331	20.1964
119	IPW000002	0.6380	145.4628
120	IPW000003	0.5388	24.4431
121	IPW000004	0.0181	2.5842
122	IPW000005	0.2979	66.3770
123	IPW000006	0.0674	81.4010
124	EMPTY	0.0011	5.8824
125	EMPTY	0.0005	3.6496
126	EMPTY	0.0009	5.7325
127	EMPTY	0.0003	1.9737
128	IHT000001	0.0049	16.9550
129	IHT000002	0.0261	16.2617
130	IHT000003	0.0057	5.0938
131	IHT000004	0.0199	13.1440
132	IHT000005	0.0013	0.9434
133	IHT000006	0.0118	5.6110
134	IHT000007	0.0024	2.0322
135	IHT000008	0.0498	35.1695
136	IHT000009	0.0171	102.3952
137	IHT000010	0.0352	28.3642
138	IHT000011	0.0413	58.7482
139	IHT000012	0.0345	37.7462
140	IHT000013	0.0016	2.4691
141	IHT000014	0.0283	21.6196
142	IHT000015	0.0050	5.8072
143	IHT000016	0.0100	56.4972
144	IHT000017	0.0337	5.0344
145	IHT000018	0.0176	37.6874
146	IHT000019	0.0040	3.2077
147	IHT000020	0.0128	82.0513
148	IHT000021	0.0663	6.2055
149	IHT000022	0.0000	0.0000
150	IHT000023	0.0104	12.1212
151	IHT000024	0.0232	2.4537
152	IHT000025	0.0116	3.0884
153	IHT000026	0.0079	10.3811
154	IHT000027	0.0086	6.6822
155	IHT000028	0.0169	40.0474

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0177	20.6054
157	IHT000030	0.0058	5.3016
158	IHT000031	0.0275	12.7433
159	IHT000032	0.0193	14.5441
160	IHT000033	0.0560	2.8463
161	IHT000034	0.0182	16.0636
162	IHT000035	0.0076	5.3221
163	IHT000036	0.0311	26.1125

Velocity 1 = 20.5046 (ft/sec) (+/- 3.4918 %)
 Velocity 2 = 13.3631 (ft/sec) (+/- 3.4861 %)
 Pressure drop = 10.7457 (psi)
 Tsat in = 268.1519 (deg F) Tsat out = 251.3418 (deg F)
 Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 707.7262 %)
 Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 841.5335 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.8497	77.4860	77.2060	1.7893e-01	1.9000e+00
1	TRF000002	75.8089	76.2313	75.9525	1.0829e-01	1.9000e+00
2	TFM000001	77.3975	78.3467	77.8449	1.7905e-01	1.9000e+00
3	TIN000001	84.7164	85.4526	85.1456	1.5735e-01	1.9002e+00
4	TRV000001	81.7798	82.5157	82.0791	1.8669e-01	1.9001e+00
5	TSR000001	76.6060	77.1342	76.9057	1.3887e-01	1.9000e+00
6	TAO020136	82.6737	83.6225	83.1966	2.2341e-01	1.9001e+00
7	TAO050136	82.9779	83.6069	83.3379	1.7379e-01	1.9001e+00
8	TAO070136	77.1283	78.1884	77.6753	2.1136e-01	1.9000e+00
9	TAO080136	81.8901	82.5211	82.2561	1.3125e-01	1.9001e+00
10	TAO090136	82.5790	83.5250	83.0834	1.9465e-01	1.9001e+00
11	TAO100136	82.5995	83.3359	82.9655	1.4619e-01	1.9001e+00
12	TAO105136	85.1062	86.0523	85.5647	1.8729e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.1059	1.4429e-01	1.9011e+00
14	TAO115136	82.2211	83.0666	82.6482	2.0812e-01	1.9001e+00
15	EMPTY	34.5420	34.7728	34.7405	8.0882e-02	1.9008e+00
16	TAO125136	84.4314	84.8525	84.6840	1.1449e-01	1.9001e+00
17	TAO130136	82.6860	83.2100	82.9998	1.4204e-01	1.9001e+00
18	EMPTY	228.8300	242.1349	236.5051	3.6723e+00	1.9373e+00
19	TAO130048	84.2293	84.7543	84.4903	1.2609e-01	1.9001e+00
20	TAO120224	80.1150	81.0640	80.6210	1.8815e-01	1.9001e+00
21	EMPTY	-499.5704	-498.4349	-499.0326	2.8703e-01	2.0610e+00
22	TAO120312	82.6771	83.3093	83.0059	1.4683e-01	1.9001e+00
23	TAO130312	83.3114	83.8372	83.5684	1.2778e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5466	1.7365e-01	1.9009e+00
25	TRT070000	83.0466	83.6800	83.3757	1.4422e-01	1.9001e+00
26	TRT100000	83.8039	84.5392	84.1232	1.5148e-01	1.9001e+00
27	TRT120000	83.2421	83.8737	83.4949	1.4264e-01	1.9001e+00
28	TRT125000	85.9322	86.5613	86.2804	1.7360e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9054	1.2292e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9040	1.8689e-01	1.9011e+00
31	TAF050136	83.8820	84.7221	84.4321	1.9948e-01	1.9001e+00
32	TAF070136	83.0927	84.1409	83.4918	2.0297e-01	1.9001e+00
33	TAF080136	82.5985	83.2289	82.9182	1.4678e-01	1.9001e+00
34	TAF090136	82.5077	83.4545	82.9873	2.8516e-01	1.9001e+00
35	TAF100136	83.0247	83.5515	83.3237	1.3851e-01	1.9001e+00
36	TAF105136	83.7331	84.5696	84.0602	2.3945e-01	1.9001e+00
37	TAF110136	81.5838	82.3194	81.9326	1.6526e-01	1.9001e+00
38	TAF115136	84.5896	85.4300	85.0477	2.0316e-01	1.9002e+00
39	TAF120136	84.0747	84.7051	84.3274	1.2209e-01	1.9001e+00
40	TAF125136	83.2486	83.8791	83.5222	1.3750e-01	1.9001e+00
41	TAF130136	82.9073	83.4342	83.2276	1.4883e-01	1.9001e+00
42	TAF120048	82.5658	83.5184	83.0612	2.2476e-01	1.9001e+00
43	TAF130048	83.3956	84.0274	83.6526	1.2795e-01	1.9001e+00
44	TAF120224	82.9710	83.8134	83.4218	2.0068e-01	1.9001e+00
45	TAF130224	82.9232	83.6630	83.2016	1.3617e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.4878	2.1903e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6295	1.1383e-01	1.9010e+00
48	TAI130048	83.0565	84.2144	83.6714	3.1134e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8098	1.6584e-01	1.9006e+00
50	TAI130224	82.7177	83.9836	83.3886	3.0722e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2549	1.6511e-01	1.9010e+00
52	TRR130000	82.6609	83.5016	83.1447	2.0680e-01	1.9001e+00
53	TSI000001	45.5025	46.2612	45.8712	1.8064e-01	1.9004e+00
54	TSI000002	62.6198	63.9015	63.2779	3.1224e-01	1.9000e+00
55	TSO000001	46.0512	47.0322	46.4439	2.2971e-01	1.9004e+00
56	TSO000002	69.8159	70.5607	70.1183	2.1427e-01	1.9000e+00
57	TAF020136	76.3541	76.9915	76.6684	1.7035e-01	1.9000e+00
58	TAF120312	84.2944	85.2388	84.8656	2.5165e-01	1.9001e+00
59	TAF130312	82.0810	82.8165	82.4465	1.9132e-01	1.9001e+00
60	EMPTY	0.3418	0.3467	0.3436	2.3675e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3585	2.4344e-03	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3715	1.3381e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3896	2.0432e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2977	9.6655e-04	0.0000e+00
65	EMPTY	0.3125	0.3223	0.3174	9.8648e-04	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3343	2.4583e-03	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3523	1.8082e-03	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3666	1.3381e-03	0.0000e+00
69	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4016	2.1065e-03	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4253	1.4797e-03	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4398	1.3381e-03	0.0000e+00
73	EMPTY	0.4541	0.4639	0.4597	1.9754e-03	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4783	9.6655e-04	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4950	2.3941e-03	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5114	2.1635e-03	0.0000e+00
77	EMPTY	0.5273	0.5322	0.5319	1.1714e-03	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5523	1.6028e-03	0.0000e+00
79	EMPTY	0.5762	0.5811	0.5763	6.9053e-04	0.0000e+00
80	PAN020136	34.2983	40.0967	36.6345	1.2092e+00	8.7481e-01
81	PAN050136	67.0359	68.8669	67.9758	4.5554e-01	1.6886e+00
82	PAN070136	50.1689	51.9237	51.1089	4.2477e-01	8.7933e-01
83	PAN080136	22.3380	23.4824	23.0170	2.3541e-01	8.7190e-01
84	PAN090136	22.8840	23.4944	23.2197	1.4864e-01	8.7193e-01
85	PAN100136	21.1504	22.0659	21.6295	1.8691e-01	8.7168e-01
86	PAN105136	11.0083	11.6949	11.3959	1.5011e-01	8.7047e-01
87	PAN110136	11.5459	12.0037	11.7427	1.1748e-01	8.7050e-01
88	PAN115136	16.6576	17.3442	17.0452	1.5857e-01	8.7104e-01
89	PAN120136	8.8123	9.4226	9.1876	1.4113e-01	8.7030e-01
90	PAN125136	12.6665	13.2006	12.9274	1.3621e-01	8.7060e-01
91	PAN130136	10.2555	10.7133	10.4417	1.0917e-01	8.7039e-01
92	PAN120048	22.4280	23.9539	23.2016	3.3452e-01	8.7193e-01
93	PAN130048	22.3389	23.1018	22.7783	1.5457e-01	8.7186e-01
94	PAN120224	26.8871	27.7263	27.2548	1.9171e-01	8.7266e-01
95	PAN130224	23.3583	23.8923	23.6284	1.5885e-01	8.7200e-01
96	PAN120312	24.4631	25.2261	24.9011	1.8160e-01	8.7222e-01
97	PAN130312	22.2526	23.2444	22.7866	1.9558e-01	8.7186e-01
98	PAB000136	40.2247	40.8198	40.5287	1.3957e-01	5.8878e-01
99	PAB100136	32.6314	32.8602	32.7247	6.0616e-02	5.8574e-01
100	PAB125136	30.3513	30.5802	30.4648	5.1691e-02	5.8498e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8285	40.9272	40.3876	2.3015e-01	7.5677e-01
102	PRV000001	20.3076	20.4297	20.3101	1.7263e-02	7.5172e-01
103	PSR000001	27.9951	28.1172	28.1001	4.2787e-02	7.5328e-01
104	PFM000001	64.7832	66.6142	65.6950	3.8576e-01	5.2628e-01
105	PAN000136	292.6016	302.2146	297.4996	2.2583e+00	4.9759e+00
106	PFM000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0095	1.1714e-03	0.0000e+00
108	EMPTY	-6.1084	-4.1650	-5.3786	5.1225e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0027	2.4484e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1403	6.6498e-02	8.1000e-01
113	VPW000002	0.0753	0.2706	0.1066	7.2330e-02	8.1000e-01
114	VPW000003	-0.1153	0.2753	0.1308	1.1027e-01	8.1000e-01
115	VPW000004	-0.0353	0.5506	0.1092	1.1027e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1347	8.8585e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1241	1.0705e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	1.8836	1.0845e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.8679	1.1534e+00	8.1000e+00
120	IPW000003	1.1513	5.0513	2.8673	1.1580e+00	8.1000e+00
121	IPW000004	0.3000	1.2766	0.8469	2.3428e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.2633	2.7969e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.2488	3.5908e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0188	3.6057e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0138	3.2253e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0159	2.7568e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0148	3.4116e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0133	8.8321e-02	4.1000e+00
129	IHT000002	0.0706	0.2659	0.1409	9.4702e-02	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1119	1.0559e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1397	7.7324e-02	4.1000e+00
132	IHT000005	-0.1200	0.2706	0.1300	9.6976e-02	4.1000e+00
133	IHT000006	0.0072	0.3978	0.1869	9.5357e-02	4.1000e+00
134	IHT000007	0.0400	0.2353	0.0947	8.8585e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.0908	8.6541e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0402	8.5454e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1280	8.8321e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.1094	9.7935e-02	4.1000e+00
139	IHT000012	-0.0375	0.1578	0.1070	8.6541e-02	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0727	1.0507e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1544	8.8233e-02	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0744	7.8918e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0255	9.8332e-02	4.1000e+00
144	IHT000017	0.3647	1.1459	0.6694	2.0939e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.0741	1.1272e-01	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.1091	1.0320e-01	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0352	9.0412e-02	4.1000e+00
148	IHT000021	-1.3888	-0.6075	-1.0020	1.8292e-01	4.1000e+00
149	IHT000022	-0.1953	0.3906	0.0156	9.5357e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1053	8.8585e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	0.9572	7.5283e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3717	7.2866e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0761	6.2265e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1287	8.2393e-02	4.1000e+00
155	IHT000028	-0.0047	0.1906	0.0539	9.0412e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.0977	1.0625e-01	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0781	9.6655e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2314	8.3612e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1522	7.8523e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9519	7.5283e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1250	1.0259e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1350	7.8523e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0956	6.6498e-02	4.1000e+00

Velocity 1 = 20.4527 (ft/sec) (+/- 3.4920 %)
 Velocity 2 = 13.3631 (ft/sec) (+/- 3.4861 %)
 Pressure drop = 10.6261 (psi)
 Tsat in = 267.9751 (deg F) Tsat out = 251.2892 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 1019.5392 %)
 Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 838.4888 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.8497	77.4860	77.1960	1.7150e-01	1.9000e+00
1	TRF000002	75.8089	76.2313	75.9296	1.2933e-01	1.9000e+00
2	TFM000001	77.5030	78.3473	77.8690	1.8409e-01	1.9000e+00
3	TIN000001	84.8218	85.5579	85.1200	1.7612e-01	1.9002e+00
4	TRV000001	81.6757	82.4116	82.0338	1.8178e-01	1.9001e+00
5	TSR000001	76.4999	77.2392	76.8881	1.5152e-01	1.9000e+00
6	TAO020136	82.7787	83.7280	83.2160	2.2785e-01	1.9001e+00
7	TAO050136	82.9761	83.7112	83.3408	1.8314e-01	1.9001e+00
8	TAO070136	77.2343	78.1879	77.6952	2.2015e-01	1.9000e+00
9	TAO080136	81.9951	82.7296	82.2847	1.7207e-01	1.9001e+00
10	TAO090136	82.5790	83.4195	83.0444	1.9894e-01	1.9001e+00
11	TAO100136	82.7041	83.3359	82.9365	1.5034e-01	1.9001e+00
12	TAO105136	85.0012	85.9469	85.5269	2.1460e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.0927	1.2061e-01	1.9011e+00
14	TAO115136	82.1154	83.0666	82.6311	2.4751e-01	1.9001e+00
15	EMPTY	34.5420	34.7728	34.7587	5.5895e-02	1.9008e+00
16	TAO125136	84.4314	84.8525	84.6634	1.1154e-01	1.9001e+00
17	TAO130136	82.6860	83.2095	82.9573	1.3157e-01	1.9001e+00
18	EMPTY	227.3201	235.4102	231.5076	1.9579e+00	1.9358e+00
19	TAO130048	84.2293	84.7543	84.4656	1.1861e-01	1.9001e+00
20	TAO120224	80.2200	81.1684	80.6292	1.9447e-01	1.9001e+00
21	EMPTY	-499.1918	-498.0565	-498.4581	2.8282e-01	2.0606e+00
22	TAO120312	82.5720	83.2044	82.9352	1.6800e-01	1.9001e+00
23	TAO130312	83.3114	83.8372	83.5565	1.3125e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5750	1.6500e-01	1.9010e+00
25	TRT070000	83.0466	83.6800	83.3523	1.6453e-01	1.9001e+00
26	TRT100000	83.5941	84.4338	84.0847	1.8604e-01	1.9001e+00
27	TRT120000	83.1373	83.6635	83.4614	1.3215e-01	1.9001e+00
28	TRT125000	85.7236	86.6645	86.3044	1.9213e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.8989	1.2419e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9242	1.8629e-01	1.9011e+00
31	TAF050136	83.9870	84.8260	84.4091	1.7727e-01	1.9001e+00
32	TAF070136	82.9892	83.9321	83.5041	2.0702e-01	1.9001e+00
33	TAF080136	82.7035	83.4376	82.9203	1.6072e-01	1.9001e+00
34	TAF090136	82.5077	83.3495	82.9606	2.0617e-01	1.9001e+00
35	TAF100136	83.0247	83.5515	83.3191	1.5642e-01	1.9001e+00
36	TAF105136	83.5250	84.4665	84.0518	2.1749e-01	1.9001e+00
37	TAF110136	81.5838	82.2138	81.9246	1.4001e-01	1.9001e+00
38	TAF115136	84.6945	85.3252	84.9714	1.9720e-01	1.9002e+00
39	TAF120136	83.7616	84.4959	84.2983	1.3503e-01	1.9001e+00
40	TAF125136	83.1449	83.7736	83.4808	1.4993e-01	1.9001e+00
41	TAF130136	82.9073	83.4342	83.1891	1.5400e-01	1.9001e+00
42	TAF120048	82.6714	83.5184	83.0304	1.9654e-01	1.9001e+00
43	TAF130048	83.3956	83.8170	83.6278	1.1163e-01	1.9001e+00
44	TAF120224	82.9710	83.7085	83.4009	1.7434e-01	1.9001e+00
45	TAF130224	82.9232	83.4512	83.1642	1.1784e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.4805	1.9899e-01	1.9009e+00
47	EMPTY	37.3074	37.7675	37.6313	1.2350e-01	1.9010e+00
48	TAI130048	82.9515	84.0045	83.5895	2.7373e-01	1.9001e+00
49	EMPTY	30.3254	31.0376	30.7906	1.9357e-01	1.9006e+00
50	TAI130224	82.7177	83.8786	83.3378	2.8540e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2695	1.5330e-01	1.9010e+00
52	TRR130000	82.6615	83.7109	83.1609	2.3141e-01	1.9001e+00
53	TSI000001	45.5020	46.1534	45.8477	1.5284e-01	1.9004e+00
54	TSI000002	62.9407	64.0083	63.4852	2.8935e-01	1.9000e+00
55	TSO000001	46.1611	47.2502	46.7235	2.1479e-01	1.9004e+00
56	TSO000002	69.9225	70.7738	70.2764	2.1205e-01	1.9000e+00
57	TAF020136	76.3541	76.9921	76.6684	1.9390e-01	1.9000e+00
58	TAF120312	84.3999	85.3441	84.9071	2.4713e-01	1.9001e+00
59	TAF130312	81.9754	82.7115	82.4004	1.9410e-01	1.9001e+00
60	EMPTY	0.3418	0.3467	0.3436	2.3783e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3596	2.3483e-03	0.0000e+00
62	EMPTY	0.3711	0.3809	0.3730	2.6022e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3897	1.9103e-03	0.0000e+00
64	EMPTY	0.2881	0.3027	0.2969	3.5908e-03	0.0000e+00
65	EMPTY	0.3076	0.3271	0.3187	4.8599e-03	0.0000e+00
66	EMPTY	0.3174	0.3467	0.3347	6.4641e-03	0.0000e+00
67	EMPTY	0.3369	0.3662	0.3541	7.8558e-03	0.0000e+00
68	EMPTY	0.3467	0.3809	0.3687	8.4645e-03	0.0000e+00
69	EMPTY	0.3662	0.4004	0.3874	8.6058e-03	0.0000e+00
70	EMPTY	0.3809	0.4150	0.4037	9.3704e-03	0.0000e+00
71	EMPTY	0.4053	0.4395	0.4277	9.5036e-03	0.0000e+00
72	EMPTY	0.4199	0.4590	0.4426	1.0240e-02	0.0000e+00
73	EMPTY	0.4395	0.4736	0.4623	1.0036e-02	0.0000e+00
74	EMPTY	0.4541	0.4883	0.4783	1.0452e-02	0.0000e+00
75	EMPTY	0.4736	0.5078	0.4962	9.8071e-03	0.0000e+00
76	EMPTY	0.4883	0.5225	0.5116	9.8298e-03	0.0000e+00
77	EMPTY	0.5078	0.5469	0.5318	1.0156e-02	0.0000e+00
78	EMPTY	0.5322	0.5664	0.5543	1.0120e-02	0.0000e+00
79	EMPTY	0.5518	0.5859	0.5771	1.0485e-02	0.0000e+00
80	PAN020136	34.1458	38.0367	35.4365	8.6944e-01	8.7450e-01
81	PAN050136	66.2729	68.5618	67.6400	5.1270e-01	1.6885e+00
82	PAN070136	49.3297	51.2371	50.3776	4.7051e-01	8.7907e-01
83	PAN080136	22.4143	23.4061	23.0044	2.3348e-01	8.7190e-01
84	PAN090136	22.7314	23.4181	23.1238	1.8361e-01	8.7192e-01
85	PAN100136	21.1504	21.9133	21.4556	1.8427e-01	8.7165e-01
86	PAN105136	10.9320	12.2290	11.2216	1.9008e-01	8.7045e-01
87	PAN110136	11.5459	12.0800	11.7950	1.3734e-01	8.7050e-01
88	PAN115136	16.5813	17.1917	16.9145	1.4584e-01	8.7103e-01
89	PAN120136	8.8885	9.4226	9.1314	1.1827e-01	8.7030e-01
90	PAN125136	12.4376	13.0480	12.7895	1.3289e-01	8.7059e-01
91	PAN130136	10.1029	10.6370	10.3847	1.3772e-01	8.7039e-01
92	PAN120048	22.4280	23.5724	23.0804	2.9179e-01	8.7191e-01
93	PAN130048	22.0337	22.8729	22.5288	2.0550e-01	8.7182e-01
94	PAN120224	26.5819	27.3448	27.0397	1.7619e-01	8.7262e-01
95	PAN130224	22.9005	23.6635	23.3474	1.8228e-01	8.7196e-01
96	PAN120312	24.3105	25.0735	24.7434	1.6656e-01	8.7220e-01
97	PAN130312	22.1763	23.0155	22.5967	1.9271e-01	8.7183e-01
98	PAB000136	40.1790	40.6367	40.4088	1.2692e-01	5.8873e-01
99	PAB100136	32.5398	32.8602	32.6799	9.0308e-02	5.8573e-01
100	PAB125136	30.3055	30.5802	30.4373	8.2330e-02	5.8497e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.0727	40.8051	40.4040	1.5759e-01	7.5677e-01
102	PRV0000001	19.8194	20.0635	19.9439	3.0414e-02	7.5166e-01
103	PSR0000001	27.9951	28.2393	28.1297	7.1548e-02	7.5329e-01
104	PFM0000001	64.6001	66.3396	65.3605	4.2129e-01	5.2602e-01
105	PAN000136	289.3972	298.0947	294.1898	2.0644e+00	4.9747e+00
106	PFM0000002	27.7669	27.7669	27.7669	1.1563e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0091	1.7263e-03	0.0000e+00
108	EMPTY	-5.9082	-3.8672	-5.2847	5.7914e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0050	6.9754e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0024	2.4662e-03	0.0000e+00
112	VPW0000001	-0.0706	0.3200	0.1606	8.6187e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.0793	7.4477e-02	8.1000e-01
114	VPW0000003	-0.1153	0.2753	0.1478	1.0204e-01	8.1000e-01
115	VPW0000004	-0.0353	0.3553	0.0883	1.0315e-01	8.1000e-01
116	VPW0000005	0.0800	0.2753	0.1398	9.0949e-02	8.1000e-01
117	VPW0000006	-0.0400	0.3506	0.1434	1.0092e-01	8.1000e-01
118	IPW0000001	0.3998	4.3045	1.6350	1.0311e+00	8.1000e+00
119	IPW0000002	-1.5516	2.3509	0.8377	1.1451e+00	8.1000e+00
120	IPW0000003	-0.7987	3.1013	1.1911	1.0140e+00	8.1000e+00
121	IPW0000004	-0.1883	0.7883	0.2701	2.0926e-01	2.0000e+00
122	IPW0000005	-0.0883	0.8882	0.5395	2.6368e-01	2.0000e+00
123	IPW0000006	-0.2883	0.6883	0.0206	2.9388e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0200	3.6273e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.7536e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0164	3.4083e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0144	2.9833e-03	0.0000e+00
128	IHT0000001	-0.2094	0.1813	0.0178	8.3122e-02	4.1000e+00
129	IHT0000002	-0.1247	0.2659	0.1464	1.0409e-01	4.1000e+00
130	IHT0000003	0.0259	0.4166	0.1216	1.0640e-01	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1752	8.2141e-02	4.1000e+00
132	IHT0000005	0.0753	0.2706	0.1311	8.9148e-02	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.2065	8.4477e-02	4.1000e+00
134	IHT0000007	0.0400	0.4306	0.1277	1.1319e-01	4.1000e+00
135	IHT0000008	0.0400	0.2353	0.1078	9.3931e-02	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0235	9.5812e-02	4.1000e+00
137	IHT0000010	-0.2353	0.3506	0.1194	9.4962e-02	4.1000e+00
138	IHT0000011	-0.1953	0.1953	0.0717	1.0315e-01	4.1000e+00
139	IHT0000012	-0.0375	0.1578	0.0821	9.6150e-02	4.1000e+00
140	IHT0000013	-0.0094	0.1859	0.0544	9.2540e-02	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.0874	8.9148e-02	4.1000e+00
142	IHT0000015	0.0353	0.2306	0.0752	7.9532e-02	4.1000e+00
143	IHT0000016	-0.0800	0.1153	-0.0202	9.0949e-02	4.1000e+00
144	IHT0000017	0.1694	1.1459	0.6238	2.3037e-01	4.1000e+00
145	IHT0000018	-0.0353	0.3553	0.1002	1.0701e-01	4.1000e+00
146	IHT0000019	-0.3200	0.0706	-0.1087	6.7148e-02	4.1000e+00
147	IHT0000020	-0.2188	0.1719	0.0244	9.3759e-02	4.1000e+00
148	IHT0000021	-1.1934	-0.8028	-1.0220	1.4720e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	0.0040	4.8662e-02	4.1000e+00
150	IHT0000023	-0.0353	0.3553	0.1281	9.2189e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	0.9926	6.1868e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3520	8.8783e-02	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.0999	7.1817e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1520	8.8783e-02	4.1000e+00
155	IHT0000028	-0.0047	0.1906	0.0591	9.2540e-02	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.1953	0.3906	0.0518	1.0378e-01	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0717	9.5132e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2114	8.5810e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1281	9.2189e-02	4.1000e+00
160	IHT000033	-1.9753	-1.7800	-1.9355	7.9532e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1196	1.0409e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1312	8.4477e-02	4.1000e+00
163	IHT000036	0.0800	0.2753	0.0999	5.9734e-02	4.1000e+00

Velocity 1 = 0.051901 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.119600 (psi)

Tsat in = 0.176788 (deg F) Tsat out = 0.052597 (deg F)

Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0100	0.0130
1	TRF000002	0.0229	0.0301
2	TFM000001	0.0241	0.0310
3	TIN000001	0.0256	0.0301
4	TRV000001	0.0453	0.0552
5	TSR000001	0.0176	0.0229
6	TAO020136	0.0194	0.0233
7	TAO050136	0.0029	0.0035
8	TAO070136	0.0199	0.0256
9	TAO080136	0.0286	0.0348
10	TAO090136	0.0390	0.0469
11	TAO100136	0.0290	0.0350
12	TAO105136	0.0378	0.0442
13	EMPTY	0.0132	0.0329
14	TAO115136	0.0171	0.0207
15	EMPTY	0.0182	0.0524
16	TAO125136	0.0206	0.0243
17	TAO130136	0.0425	0.0512
18	EMPTY	4.9975	2.1131
19	TAO130048	0.0247	0.0292
20	TAO120224	0.0082	0.0102
21	EMPTY	0.5745	0.1151
22	TAO120312	0.0707	0.0852
23	TAO130312	0.0119	0.0142
24	EMPTY	0.0284	0.0756
25	TRT070000	0.0234	0.0281
26	TRT100000	0.0385	0.0458
27	TRT120000	0.0335	0.0401
28	TRT125000	0.0240	0.0278
29	EMPTY	0.0065	0.0171
30	EMPTY	0.0202	0.0506
31	TAF050136	0.0230	0.0272
32	TAF070136	0.0123	0.0147
33	TAF080136	0.0021	0.0025
34	TAF090136	0.0267	0.0322
35	TAF100136	0.0046	0.0055
36	TAF105136	0.0084	0.0100
37	TAF110136	0.0080	0.0098
38	TAF115136	0.0763	0.0897
39	TAF120136	0.0291	0.0345
40	TAF125136	0.0414	0.0496
41	TAF130136	0.0385	0.0463
42	TAF120048	0.0308	0.0371
43	TAF130048	0.0248	0.0297
44	TAF120224	0.0209	0.0250
45	TAF130224	0.0374	0.0450

#	Name	Abs Diff	%Diff
46	EMPTY	0.0073	0.0200
47	EMPTY	0.0018	0.0048
48	TAI130048	0.0819	0.0979
49	EMPTY	0.0192	0.0623
50	TAI130224	0.0508	0.0609
51	EMPTY	0.0146	0.0382
52	TRR130000	0.0162	0.0195
53	TSI000001	0.0235	0.0512
54	TSI000002	0.2073	0.3276
55	TSO000001	0.2796	0.6020
56	TSO000002	0.1581	0.2255
57	TAF020136	0.0000	0.0000
58	TAF120312	0.0415	0.0489
59	TAF130312	0.0461	0.0559
60	EMPTY	0.0000	0.0000
61	EMPTY	0.0011	0.3068
62	EMPTY	0.0015	0.4038
63	EMPTY	0.0001	0.0257
64	EMPTY	0.0008	0.2687
65	EMPTY	0.0013	0.4096
66	EMPTY	0.0004	0.1196
67	EMPTY	0.0018	0.5109
68	EMPTY	0.0021	0.5728
69	EMPTY	0.0017	0.4408
70	EMPTY	0.0021	0.5229
71	EMPTY	0.0024	0.5643
72	EMPTY	0.0028	0.6367
73	EMPTY	0.0026	0.5656
74	EMPTY	0.0000	0.0000
75	EMPTY	0.0012	0.2424
76	EMPTY	0.0002	0.0391
77	EMPTY	0.0001	0.0188
78	EMPTY	0.0020	0.3621
79	EMPTY	0.0008	0.1388
80	PAN020136	1.1980	3.2701
81	PAN050136	0.3358	0.4940
82	PAN070136	0.7313	1.4309
83	PAN080136	0.0126	0.0547
84	PAN090136	0.0959	0.4130
85	PAN100136	0.1739	0.8040
86	PAN105136	0.1743	1.5295
87	PAN110136	0.0523	0.4454
88	PAN115136	0.1307	0.7668
89	PAN120136	0.0562	0.6117
90	PAN125136	0.1379	1.0667
91	PAN130136	0.0570	0.5459
92	PAN120048	0.1212	0.5224
93	PAN130048	0.2495	1.0953
94	PAN120224	0.2151	0.7892
95	PAN130224	0.2810	1.1892
96	PAN120312	0.1577	0.6333
97	PAN130312	0.1899	0.8334
98	PAB000136	0.1199	0.2958
99	PAB100136	0.0448	0.1369
100	PAB125136	0.0275	0.0903

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0164	0.0406
102	PRV000001	0.3662	1.8031
103	PSR000001	0.0296	0.1053
104	PFM000001	0.3345	0.5092
105	PAN000136	3.3098	1.1125
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0004	4.2105
108	EMPTY	0.0939	1.7458
109	EMPTY	0.0001	1.9608
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	11.1111
112	VPW000001	0.0203	14.4690
113	VPW000002	0.0273	25.6098
114	VPW000003	0.0170	12.9969
115	VPW000004	0.0209	19.1392
116	VPW000005	0.0051	3.7862
117	VPW000006	0.0193	15.5520
118	IPW000001	0.2486	13.1981
119	IPW000002	0.0302	3.4797
120	IPW000003	1.6762	58.4592
121	IPW000004	0.5768	68.1072
122	IPW000005	0.2762	104.8993
123	IPW000006	0.2282	91.7203
124	EMPTY	0.0012	6.3830
125	EMPTY	0.0003	2.1739
126	EMPTY	0.0005	3.1446
127	EMPTY	0.0004	2.7027
128	IHT000001	0.0045	33.8346
129	IHT000002	0.0055	3.9035
130	IHT000003	0.0097	8.6685
131	IHT000004	0.0355	25.4116
132	IHT000005	0.0011	0.8462
133	IHT000006	0.0196	10.4869
134	IHT000007	0.0330	34.8469
135	IHT000008	0.0170	18.7225
136	IHT000009	0.0167	41.5423
137	IHT000010	0.0086	6.7188
138	IHT000011	0.0377	34.4607
139	IHT000012	0.0249	23.2710
140	IHT000013	0.0183	25.1719
141	IHT000014	0.0670	43.3938
142	IHT000015	0.0008	1.0753
143	IHT000016	0.0457	179.2157
144	IHT000017	0.0456	6.8121
145	IHT000018	0.0261	35.2227
146	IHT000019	0.0004	0.3666
147	IHT000020	0.0108	30.6818
148	IHT000021	0.0200	1.9960
149	IHT000022	0.0116	74.3590
150	IHT000023	0.0228	21.6524
151	IHT000024	0.0354	3.6983
152	IHT000025	0.0197	5.3000
153	IHT000026	0.0238	31.2746
154	IHT000027	0.0233	18.1041
155	IHT000028	0.0052	9.6475

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0459	46.9806
157	IHT000030	0.0064	8.1946
158	IHT000031	0.0200	8.6430
159	IHT000032	0.0241	15.8344
160	IHT000033	0.0164	0.8402
161	IHT000034	0.0054	4.3200
162	IHT000035	0.0038	2.8148
163	IHT000036	0.0043	4.4979

Velocity 1 = 18.3803 (ft/sec) (+/- 3.5033 %)
Velocity 2 = 13.3632 (ft/sec) (+/- 3.4861 %)
Pressure drop = 7.8092 (psi)
Tsat in = 268.0575 (deg F) Tsat out = 256.3371 (deg F)
Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 706.8146 %)
Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 1025.8488 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.0619	77.4860	77.2570	1.7052e-01	1.9000e+00
1	TRF000002	75.8089	76.2313	76.0158	1.3144e-01	1.9000e+00
2	TFM000001	77.5030	78.3473	77.9441	1.8663e-01	1.9000e+00
3	TIN000001	85.0321	85.5579	85.2738	1.5210e-01	1.9002e+00
4	TRV000001	81.6757	82.6213	82.1989	1.9857e-01	1.9001e+00
5	TSR000001	76.6060	77.2397	76.9797	1.4513e-01	1.9000e+00
6	TAO020136	82.7792	83.8329	83.3083	2.8374e-01	1.9001e+00
7	TAO050136	83.0817	83.8162	83.4616	1.7721e-01	1.9001e+00
8	TAO070136	77.2343	78.1884	77.7536	2.0677e-01	1.9000e+00
9	TAO080136	81.9957	82.7302	82.4049	1.6336e-01	1.9001e+00
10	TAO090136	82.8940	83.6300	83.2242	1.7646e-01	1.9001e+00
11	TAO100136	82.7045	83.4409	83.1190	1.7708e-01	1.9001e+00
12	TAO105136	85.3163	86.0522	85.6761	1.8645e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.0876	1.0620e-01	1.9011e+00
14	TAO115136	82.3261	83.2782	82.7812	2.3314e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.7820	4.5666e-02	1.9008e+00
16	TAO125136	84.5368	85.1670	84.8079	1.7384e-01	1.9001e+00
17	TAO130136	82.8939	83.3150	83.0857	1.2516e-01	1.9001e+00
18	EMPTY	232.5953	248.4463	240.2876	3.5761e+00	1.9385e+00
19	TAO130048	84.3347	84.9646	84.5638	1.5404e-01	1.9001e+00
20	TAO120224	80.3258	81.0640	80.7412	1.6421e-01	1.9001e+00
21	EMPTY	-489.0104	-488.2594	-488.6649	2.4979e-01	2.0546e+00
22	TAO120312	82.7826	83.4144	83.1048	1.6670e-01	1.9001e+00
23	TAO130312	83.4169	83.9426	83.6714	1.4573e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.5420	1.8873e-01	1.9009e+00
25	TRT070000	83.1521	83.7849	83.4834	1.6927e-01	1.9001e+00
26	TRT100000	83.8039	84.6441	84.2681	2.1116e-01	1.9001e+00
27	TRT120000	83.3476	83.9786	83.5980	1.4706e-01	1.9001e+00
28	TRT125000	86.0375	86.7692	86.3997	1.5556e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9054	1.1381e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9178	1.8980e-01	1.9011e+00
31	TAF050136	84.1970	84.9314	84.5475	1.7311e-01	1.9001e+00
32	TAF070136	83.1982	84.0370	83.6573	1.9383e-01	1.9001e+00
33	TAF080136	82.8091	83.4376	83.0711	1.4267e-01	1.9001e+00
34	TAF090136	82.6132	83.5592	83.0988	2.7190e-01	1.9001e+00
35	TAF100136	83.0247	83.8669	83.4395	1.7976e-01	1.9001e+00
36	TAF105136	83.6299	84.7798	84.2212	2.8827e-01	1.9001e+00
37	TAF110136	81.7935	82.3194	82.0482	1.5181e-01	1.9001e+00
38	TAF115136	84.6950	85.4300	85.1212	1.9366e-01	1.9002e+00
39	TAF120136	84.1802	84.8099	84.4762	1.5680e-01	1.9001e+00
40	TAF125136	83.1449	83.9840	83.6209	1.5608e-01	1.9001e+00
41	TAF130136	83.1182	83.7494	83.3560	1.5594e-01	1.9001e+00
42	TAF120048	82.7780	83.7305	83.1647	2.2279e-01	1.9001e+00
43	TAF130048	83.5011	83.9219	83.7094	1.2668e-01	1.9001e+00
44	TAF120224	83.0765	84.0238	83.5375	1.8768e-01	1.9001e+00
45	TAF130224	83.0288	83.6616	83.3389	1.5876e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5615	1.8933e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6801	1.1279e-01	1.9010e+00
48	TAI130048	83.1621	84.3198	83.7871	3.1202e-01	1.9001e+00
49	EMPTY	30.3254	31.0376	30.7718	1.6362e-01	1.9006e+00
50	TAI130224	82.8233	84.0885	83.4834	2.9210e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2227	1.8860e-01	1.9010e+00
52	TRR130000	82.6615	83.8169	83.2645	2.5440e-01	1.9001e+00
53	TSI000001	45.2858	46.3699	45.9038	2.0229e-01	1.9004e+00
54	TSI000002	62.2992	63.7952	63.1905	3.2910e-01	1.9000e+00
55	TSO000001	46.0512	47.3589	46.6595	2.8452e-01	1.9004e+00
56	TSO000002	69.7098	70.7733	70.1927	2.2562e-01	1.9000e+00
57	TAF020136	76.3541	77.2031	76.7681	1.9805e-01	1.9000e+00
58	TAF120312	84.5047	85.5530	84.9810	2.6981e-01	1.9002e+00
59	TAF130312	82.2907	82.9216	82.5705	1.8337e-01	1.9001e+00
60	EMPTY	0.3418	0.3467	0.3460	1.7115e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3610	1.1714e-03	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3753	1.7115e-03	0.0000e+00
63	EMPTY	0.3906	0.3906	0.3906	0.0000e+00	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2957	2.4484e-03	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3173	6.9053e-04	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3321	6.9053e-04	0.0000e+00
67	EMPTY	0.3516	0.3516	0.3516	0.0000e+00	0.0000e+00
68	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
69	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4005	6.9053e-04	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4249	6.9053e-04	0.0000e+00
72	EMPTY	0.4395	0.4395	0.4395	0.0000e+00	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4591	6.9053e-04	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4752	2.3008e-03	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4934	9.6655e-04	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5083	1.4797e-03	0.0000e+00
77	EMPTY	0.5273	0.5322	0.5289	2.3008e-03	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5519	6.9053e-04	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5760	9.6655e-04	0.0000e+00
80	PAN020136	24.8379	26.5164	25.5627	4.1481e-01	8.7234e-01
81	PAN050136	49.1831	50.5564	49.8423	3.3832e-01	1.6846e+00
82	PAN070136	37.5804	38.3434	37.8963	1.9191e-01	8.7514e-01
83	PAN080136	15.8530	16.3108	16.1140	1.1544e-01	8.7093e-01
84	PAN090136	16.7805	17.3909	17.0170	1.2640e-01	8.7104e-01
85	PAN100136	15.4283	15.8861	15.7076	1.3224e-01	8.7089e-01
86	PAN105136	7.8040	8.2617	8.0664	1.1755e-01	8.7023e-01
87	PAN110136	8.4941	8.9519	8.6895	1.0807e-01	8.7027e-01
88	PAN115136	12.7666	13.3007	12.9741	1.1539e-01	8.7060e-01
89	PAN120136	6.2183	6.6760	6.4380	1.0413e-01	8.7015e-01
90	PAN125136	9.3859	9.9199	9.6773	1.2493e-01	8.7034e-01
91	PAN130136	6.9749	7.5852	7.2983	1.4005e-01	8.7019e-01
92	PAN120048	16.4771	17.1637	16.8066	1.7805e-01	8.7101e-01
93	PAN130048	16.1591	16.7694	16.4444	1.3856e-01	8.7097e-01
94	PAN120224	19.8680	20.3258	20.0923	1.1881e-01	8.7145e-01
95	PAN130224	16.9496	17.4836	17.2136	9.7740e-02	8.7106e-01
96	PAN120312	18.2070	18.6648	18.4603	1.3651e-01	8.7122e-01
97	PAN130312	16.4542	16.8357	16.6434	1.0706e-01	8.7099e-01
98	PAB000136	40.3163	40.6367	40.4646	7.1373e-02	5.8876e-01
99	PAB100136	34.7371	34.9660	34.8643	5.1732e-02	5.8651e-01
100	PAB125136	33.0979	33.2810	33.1867	4.6619e-02	5.8590e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1948	40.6830	40.4023	1.1892e-01	7.5677e-01
102	PRV000001	19.5752	19.5752	19.5752	1.3487e-05	7.5159e-01
103	PSR000001	31.1690	31.2910	31.2691	4.7374e-02	7.5406e-01
104	PFM000001	52.2404	53.3391	52.7312	2.4452e-01	5.1709e-01
105	PAN000136	212.9507	219.3594	216.2008	1.2621e+00	4.9496e+00
106	PFM000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0080	2.3675e-03	0.0000e+00
108	EMPTY	-5.7568	-3.8818	-5.0707	5.3750e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0010	1.9730e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1598	8.5454e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0988	7.5283e-02	8.1000e-01
114	VPW000003	-0.1153	0.2753	0.1269	9.3043e-02	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0858	9.5765e-02	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1542	9.5765e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1631	1.0410e-01	8.1000e-01
118	IPW000001	-1.5525	4.3045	1.0246	1.1459e+00	8.1000e+00
119	IPW000002	-1.5516	4.3022	1.2192	1.1213e+00	8.1000e+00
120	IPW000003	1.1513	5.0513	2.9843	1.2085e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.6516	2.4244e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.1265	2.6394e-01	2.0000e+00
123	IPW000006	-0.2883	1.1766	0.3172	2.5266e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0206	3.0067e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.7124e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0170	2.9986e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0142	3.1583e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0328	9.3043e-02	4.1000e+00
129	IHT000002	0.0706	0.2659	0.1644	9.8569e-02	4.1000e+00
130	IHT000003	0.0259	0.2212	0.1275	9.8569e-02	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1436	6.1257e-02	4.1000e+00
132	IHT000005	0.0753	0.2706	0.1456	9.4702e-02	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2064	8.3612e-02	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1220	9.7377e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1064	9.3461e-02	4.1000e+00
136	IHT000009	-0.1200	0.0753	0.0284	8.4262e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1202	9.4125e-02	4.1000e+00
138	IHT000011	-0.1953	0.1953	0.0625	1.0014e-01	4.1000e+00
139	IHT000012	-0.0375	0.1578	0.0914	9.3461e-02	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0609	1.0259e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1153	7.8918e-02	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0705	7.5798e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	-0.0019	9.6655e-02	4.1000e+00
144	IHT000017	0.1694	1.1459	0.6420	2.4984e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.0741	9.7935e-02	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.1169	7.8523e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0352	9.0412e-02	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-0.9825	1.6667e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0000	5.5804e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1053	8.8585e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	0.9572	7.5283e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3795	9.0412e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0800	6.8345e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1327	7.9017e-02	4.1000e+00
155	IHT000028	-0.0047	0.3859	0.0578	1.0014e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.0938	1.0617e-01	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0742	9.5765e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2119	7.5283e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1327	7.9017e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9597	7.7324e-02	4.1000e+00
161	IHT000034	0.0000	0.1953	0.1133	9.7377e-02	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1272	6.8345e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0956	6.6498e-02	4.1000e+00

Velocity 1 = 18.3311 (ft/sec) (+/- 3.5036 %)
 Velocity 2 = 13.3635 (ft/sec) (+/- 3.4861 %)
 Pressure drop = 7.7704 (psi)
 Tsat in = 268.2202 (deg F) Tsat out = 256.5840 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 980.3417 %)
 Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 832.6320 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.0619	77.4860	77.2869	1.7535e-01	1.9000e+00
1	TRF000002	75.8089	76.2313	76.0244	1.3962e-01	1.9000e+00
2	TFM000001	77.7144	78.7686	78.1812	2.2169e-01	1.9000e+00
3	TIN000001	84.7163	85.6627	85.2123	2.2913e-01	1.9002e+00
4	TRV000001	81.8855	82.6213	82.2033	1.8986e-01	1.9001e+00
5	TSR000001	76.6060	77.2397	76.9380	1.4934e-01	1.9000e+00
6	TAO020136	82.7792	83.7280	83.2954	2.1543e-01	1.9001e+00
7	TAO050136	83.1867	83.8162	83.4887	1.7094e-01	1.9001e+00
8	TAO070136	77.3398	78.0817	77.7403	1.9970e-01	1.9000e+00
9	TAO080136	82.1013	82.8352	82.4113	1.5159e-01	1.9001e+00
10	TAO090136	82.8940	83.6300	83.2653	1.8837e-01	1.9001e+00
11	TAO100136	82.9147	83.3359	83.1361	1.4287e-01	1.9001e+00
12	TAO105136	85.3163	86.2624	85.7521	2.2709e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.1021	1.2694e-01	1.9011e+00
14	TAO115136	82.2211	83.3832	82.8012	2.1581e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.7916	6.3821e-02	1.9008e+00
16	TAO125136	84.5368	85.1670	84.8028	1.7568e-01	1.9001e+00
17	TAO130136	82.7916	83.3150	83.1131	1.3540e-01	1.9001e+00
18	EMPTY	228.0753	238.5911	233.3357	2.6433e+00	1.9363e+00
19	TAO130048	84.3347	84.8597	84.5793	1.3118e-01	1.9001e+00
20	TAO120224	80.4310	81.1691	80.7992	1.6405e-01	1.9001e+00
21	EMPTY	-485.2599	-484.8854	-485.0458	1.8723e-01	2.0524e+00
22	TAO120312	82.7826	83.4143	83.1264	1.6486e-01	1.9001e+00
23	TAO130312	83.4169	84.0475	83.7301	1.6411e-01	1.9001e+00
24	EMPTY	37.0772	37.7675	37.5750	1.7787e-01	1.9010e+00
25	TRT070000	83.2571	83.8918	83.5528	1.5073e-01	1.9001e+00
26	TRT100000	83.8039	84.8537	84.2755	2.2288e-01	1.9001e+00
27	TRT120000	83.3476	83.9786	83.6224	1.6468e-01	1.9001e+00
28	TRT125000	85.9337	86.8744	86.4221	1.7793e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9176	1.1060e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9242	2.0319e-01	1.9011e+00
31	TAF050136	84.1970	84.9314	84.6124	1.8422e-01	1.9001e+00
32	TAF070136	83.1982	84.1409	83.6561	2.1672e-01	1.9001e+00
33	TAF080136	82.7040	83.5426	83.1064	1.6780e-01	1.9001e+00
34	TAF090136	82.6127	83.7696	83.1302	2.6624e-01	1.9001e+00
35	TAF100136	83.0247	83.8669	83.5017	2.0510e-01	1.9001e+00
36	TAF105136	83.7336	84.6750	84.2633	2.2823e-01	1.9001e+00
37	TAF110136	81.7935	82.4245	82.0770	1.8240e-01	1.9001e+00
38	TAF115136	84.6950	85.5348	85.1492	2.1577e-01	1.9002e+00
39	TAF120136	84.2851	84.8099	84.5613	1.4956e-01	1.9001e+00
40	TAF125136	83.3541	83.9840	83.6670	1.5522e-01	1.9001e+00
41	TAF130136	83.1182	83.7494	83.3845	1.5649e-01	1.9001e+00
42	TAF120048	82.7764	83.6250	83.2526	2.3477e-01	1.9001e+00
43	TAF130048	83.5011	84.1323	83.8060	1.7743e-01	1.9001e+00
44	TAF120224	83.0765	84.0238	83.6092	1.9260e-01	1.9001e+00
45	TAF130224	83.1338	83.6616	83.4425	1.3916e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5651	1.9533e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.7064	1.0261e-01	1.9010e+00
48	TAI130048	83.1621	84.6350	83.8193	2.9954e-01	1.9001e+00
49	EMPTY	30.5629	31.0376	30.8051	1.6423e-01	1.9006e+00
50	TAI130224	82.8233	84.0885	83.5378	3.2594e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2508	1.6420e-01	1.9010e+00
52	TRR130000	82.8714	83.7121	83.3004	2.4987e-01	1.9001e+00
53	TSI000001	45.6109	46.3699	45.9606	1.9954e-01	1.9004e+00
54	TSI000002	62.2992	63.5818	62.9777	2.9708e-01	1.9000e+00
55	TSO000001	45.9430	47.1409	46.4938	2.3977e-01	1.9004e+00
56	TSO000002	69.4969	70.3481	69.8922	2.0378e-01	1.9000e+00
57	TAF020136	76.4589	77.2031	76.7612	2.1394e-01	1.9000e+00
58	TAF120312	84.5047	85.5535	85.0121	2.8988e-01	1.9002e+00
59	TAF130312	82.1866	82.9216	82.5827	1.8362e-01	1.9001e+00
60	EMPTY	0.3418	0.3516	0.3455	2.3440e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3611	9.7615e-04	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3742	2.3783e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3903	1.1827e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2947	2.3483e-03	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3169	1.4934e-03	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3321	6.9754e-04	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3515	6.9754e-04	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3661	6.9754e-04	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3856	6.9754e-04	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4005	6.9754e-04	0.0000e+00
71	EMPTY	0.4248	0.4248	0.4248	0.0000e+00	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4394	6.9754e-04	0.0000e+00
73	EMPTY	0.4590	0.4590	0.4590	0.0000e+00	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4739	1.1827e-03	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4933	6.9754e-04	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5079	6.9754e-04	0.0000e+00
77	EMPTY	0.5273	0.5371	0.5276	1.5467e-03	0.0000e+00
78	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5752	1.9883e-03	0.0000e+00
80	PAN020136	24.7616	26.6689	25.3828	4.4948e-01	8.7231e-01
81	PAN050136	49.1831	50.4038	49.6440	3.1990e-01	1.6846e+00
82	PAN070136	36.7412	38.0382	37.5119	2.4636e-01	8.7504e-01
83	PAN080136	15.6241	16.5397	16.0757	1.5166e-01	8.7093e-01
84	PAN090136	16.7805	17.1620	16.9502	1.0593e-01	8.7103e-01
85	PAN100136	15.3521	15.8861	15.6323	1.0721e-01	8.7088e-01
86	PAN105136	4.7522	8.1854	7.5455	8.5140e-01	8.7020e-01
87	PAN110136	8.4941	11.9274	9.1263	8.3837e-01	8.7030e-01
88	PAN115136	12.7666	13.3007	12.9457	1.0851e-01	8.7060e-01
89	PAN120136	6.0657	6.5997	6.3459	1.1590e-01	8.7014e-01
90	PAN125136	9.3859	9.9199	9.6801	1.2652e-01	8.7034e-01
91	PAN130136	6.9749	7.5852	7.3174	1.2275e-01	8.7019e-01
92	PAN120048	16.4008	17.0111	16.7106	1.5212e-01	8.7100e-01
93	PAN130048	15.9302	16.7694	16.3428	1.8022e-01	8.7096e-01
94	PAN120224	19.7155	20.1732	19.9397	1.0609e-01	8.7143e-01
95	PAN130224	16.9496	17.4073	17.1427	1.0801e-01	8.7105e-01
96	PAN120312	17.9019	18.5122	18.2382	1.2929e-01	8.7119e-01
97	PAN130312	16.3016	16.8357	16.5648	1.1660e-01	8.7099e-01
98	PAB000136	40.4536	40.7283	40.5751	7.1499e-02	5.8880e-01
99	PAB100136	34.9202	35.1033	35.0127	4.3316e-02	5.8657e-01
100	PAB125136	33.2810	33.3726	33.3268	2.6429e-02	5.8595e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1948	40.6830	40.4688	1.3309e-01	7.5679e-01
102	PRV000001	19.4532	19.5752	19.5304	5.9458e-02	7.5159e-01
103	PSR000001	31.4131	31.5352	31.4256	3.7334e-02	7.5410e-01
104	PFM000001	51.9658	52.9729	52.4460	2.5317e-01	5.1691e-01
105	PAN000136	212.4929	218.9016	215.1274	1.4095e+00	4.9493e+00
106	PFM000002	27.7669	27.7669	27.7669	1.1563e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0082	2.3135e-03	0.0000e+00
108	EMPTY	-6.3672	-4.0820	-5.2421	5.4031e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0049	9.9670e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0008	1.8234e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1366	8.3705e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0913	7.8092e-02	8.1000e-01
114	VPW000003	-0.1153	0.2753	0.1517	1.0315e-01	8.1000e-01
115	VPW000004	-0.2306	0.1600	0.0643	1.0640e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1637	9.7656e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1633	7.9328e-02	8.1000e-01
118	IPW000001	0.3998	4.3045	2.3920	1.0907e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.2403	1.1840e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.3105	9.6164e-01	8.1000e+00
121	IPW000004	0.3000	0.7883	0.5691	2.4538e-01	2.0000e+00
122	IPW000005	-0.0883	1.3764	0.6491	2.8403e-01	2.0000e+00
123	IPW000006	-0.7766	0.6883	0.0007	2.9765e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0184	3.1934e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.8866e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0155	3.2562e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0152	2.9284e-03	0.0000e+00
128	IHT000001	-0.2094	0.3766	0.0258	1.0533e-01	4.1000e+00
129	IHT000002	0.0706	0.4612	0.1264	9.7656e-02	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1017	1.0409e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1633	8.8783e-02	4.1000e+00
132	IHT000005	-0.1200	0.4659	0.1431	1.0955e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.1905	1.2229e-01	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1117	9.5132e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1078	9.3931e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0155	1.1419e-01	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1194	1.0299e-01	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0717	9.5132e-02	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.0821	1.1146e-01	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0345	9.1482e-02	4.1000e+00
141	IHT000014	0.1153	0.3106	0.1392	6.4688e-02	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0871	9.5812e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0117	9.8483e-02	4.1000e+00
144	IHT000017	0.1694	1.1459	0.6596	2.0763e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.0843	9.6150e-02	4.1000e+00
146	IHT000019	-0.1247	0.0706	-0.1048	5.9734e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0244	8.4860e-02	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.0420	1.5577e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0040	6.2908e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1042	8.9148e-02	4.1000e+00
151	IHT000024	0.7853	0.9806	0.9607	5.9734e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3720	8.3705e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0800	3.9868e-02	4.1000e+00
154	IHT000027	-0.0353	0.1600	0.1122	8.4860e-02	4.1000e+00
155	IHT000028	-0.0047	0.1906	0.0471	8.7123e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.0917	9.8483e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0877	9.8153e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2273	5.5804e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1560	4.8662e-02	4.1000e+00
160	IHT000033	-1.9753	-1.7800	-1.9554	5.9734e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1116	1.0548e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1272	7.9736e-02	4.1000e+00
163	IHT000036	0.0800	0.2753	0.1039	6.4688e-02	4.1000e+00

Velocity 1 = 0.049200 (ft/sec)
 Velocity 2 = 0.000299 (ft/sec)
 Pressure Drop = 0.038800 (psi)
 Tsat in = 0.162720 (deg F) Tsat out = 0.246918 (deg F)
 Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0299	0.0387
1	TRF000002	0.0086	0.0113
2	TFM000001	0.2371	0.3042
3	TIN000001	0.0615	0.0721
4	TRV000001	0.0044	0.0054
5	TSR000001	0.0417	0.0542
6	TAO020136	0.0129	0.0155
7	TAO050136	0.0271	0.0325
8	TAO070136	0.0133	0.0171
9	TAO080136	0.0064	0.0078
10	TAO090136	0.0411	0.0494
11	TAO100136	0.0171	0.0206
12	TAO105136	0.0760	0.0887
13	EMPTY	0.0145	0.0362
14	TAO115136	0.0200	0.0242
15	EMPTY	0.0096	0.0276
16	TAO125136	0.0051	0.0060
17	TAO130136	0.0274	0.0330
18	EMPTY	6.9519	2.8932
19	TAO130048	0.0155	0.0183
20	TAO120224	0.0580	0.0718
21	EMPTY	3.6191	0.7406
22	TAO120312	0.0216	0.0260
23	TAO130312	0.0587	0.0702
24	EMPTY	0.0330	0.0879
25	TRT070000	0.0694	0.0831
26	TRT100000	0.0074	0.0088
27	TRT120000	0.0244	0.0292
28	TRT125000	0.0224	0.0259
29	EMPTY	0.0122	0.0322
30	EMPTY	0.0064	0.0160
31	TAF050136	0.0649	0.0768
32	TAF070136	0.0012	0.0014
33	TAF080136	0.0353	0.0425
34	TAF090136	0.0314	0.0378
35	TAF100136	0.0622	0.0745
36	TAF105136	0.0421	0.0500
37	TAF110136	0.0288	0.0351
38	TAF115136	0.0280	0.0329
39	TAF120136	0.0851	0.1007
40	TAF125136	0.0461	0.0551
41	TAF130136	0.0285	0.0342
42	TAF120048	0.0879	0.1057
43	TAF130048	0.0966	0.1154
44	TAF120224	0.0717	0.0858
45	TAF130224	0.1036	0.1243

#	Name	Abs Diff	%Diff
46	EMPTY	0.0036	0.0098
47	EMPTY	0.0263	0.0698
48	TAI130048	0.0322	0.0384
49	EMPTY	0.0333	0.1082
50	TAI130224	0.0544	0.0652
51	EMPTY	0.0281	0.0735
52	TRR130000	0.0359	0.0431
53	TSI000001	0.0568	0.1237
54	TSI000002	0.2128	0.3368
55	TSO000001	0.1657	0.3551
56	TSO000002	0.3005	0.4281
57	TAF020136	0.0069	0.0090
58	TAF120312	0.0311	0.0366
59	TAF130312	0.0122	0.0148
60	EMPTY	0.0005	0.1445
61	EMPTY	0.0001	0.0277
62	EMPTY	0.0011	0.2931
63	EMPTY	0.0003	0.0768
64	EMPTY	0.0010	0.3382
65	EMPTY	0.0004	0.1261
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0001	0.0284
68	EMPTY	0.0001	0.0273
69	EMPTY	0.0001	0.0259
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0001	0.0235
72	EMPTY	0.0001	0.0228
73	EMPTY	0.0001	0.0218
74	EMPTY	0.0013	0.2736
75	EMPTY	0.0001	0.0203
76	EMPTY	0.0004	0.0787
77	EMPTY	0.0013	0.2458
78	EMPTY	0.0001	0.0181
79	EMPTY	0.0008	0.1389
80	PAN020136	0.1799	0.7038
81	PAN050136	0.1983	0.3979
82	PAN070136	0.3844	1.0143
83	PAN080136	0.0383	0.2377
84	PAN090136	0.0668	0.3926
85	PAN100136	0.0753	0.4794
86	PAN105136	0.5209	6.4576
87	PAN110136	0.4368	5.0268
88	PAN115136	0.0284	0.2189
89	PAN120136	0.0921	1.4306
90	PAN125136	0.0028	0.0289
91	PAN130136	0.0191	0.2617
92	PAN120048	0.0960	0.5712
93	PAN130048	0.1016	0.6178
94	PAN120224	0.1526	0.7595
95	PAN130224	0.0709	0.4119
96	PAN120312	0.2221	1.2031
97	PAN130312	0.0786	0.4723
98	PAB000136	0.1105	0.2731
99	PAB100136	0.1484	0.4256
100	PAB125136	0.1401	0.4222

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0665	0.1646
102	PRV000001	0.0448	0.2289
103	PSR000001	0.1565	0.5005
104	PFM000001	0.2852	0.5409
105	PAN000136	1.0734	0.4965
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	2.5000
108	EMPTY	0.1714	3.3802
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	20.0000
112	VPW000001	0.0232	14.5181
113	VPW000002	0.0075	7.5911
114	VPW000003	0.0248	19.5429
115	VPW000004	0.0215	25.0583
116	VPW000005	0.0095	6.1608
117	VPW000006	0.0002	0.1226
118	IPW000001	1.3674	133.4569
119	IPW000002	0.9789	80.2904
120	IPW000003	1.6738	56.0868
121	IPW000004	0.0825	12.6611
122	IPW000005	0.5226	413.1226
123	IPW000006	0.3165	99.7793
124	EMPTY	0.0022	10.6796
125	EMPTY	0.0004	2.9630
126	EMPTY	0.0015	8.8235
127	EMPTY	0.0010	7.0423
128	IHT000001	0.0070	21.3415
129	IHT000002	0.0380	23.1144
130	IHT000003	0.0258	20.2353
131	IHT000004	0.0197	13.7187
132	IHT000005	0.0025	1.7170
133	IHT000006	0.0159	7.7035
134	IHT000007	0.0103	8.4426
135	IHT000008	0.0014	1.3158
136	IHT000009	0.0129	45.4225
137	IHT000010	0.0008	0.6656
138	IHT000011	0.0092	14.7200
139	IHT000012	0.0093	10.1751
140	IHT000013	0.0264	43.3498
141	IHT000014	0.0239	20.7285
142	IHT000015	0.0166	23.5461
143	IHT000016	0.0136	715.7894
144	IHT000017	0.0176	2.7414
145	IHT000018	0.0102	13.7652
146	IHT000019	0.0121	10.3507
147	IHT000020	0.0108	30.6818
148	IHT000021	0.0595	6.0560
149	IHT000022	0.0040	100.0000
150	IHT000023	0.0011	1.0446
151	IHT000024	0.0035	0.3656
152	IHT000025	0.0075	1.9763
153	IHT000026	0.0000	0.0000
154	IHT000027	0.0205	15.4484
155	IHT000028	0.0107	18.5121

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0021	2.2388
157	IHT000030	0.0135	18.1941
158	IHT000031	0.0154	7.2676
159	IHT000032	0.0233	17.5584
160	IHT000033	0.0043	0.2194
161	IHT000034	0.0017	1.5004
162	IHT000035	0.0000	0.0000
163	IHT000036	0.0083	8.6820

Velocity 1 = 16.6172 (ft/sec) (+/- 3.5193 %)

Velocity 2 = 13.3634 (ft/sec) (+/- 3.4861 %)

Pressure drop = 5.5936 (psi)

Tsat in = 268.2207 (deg F) Tsat out = 260.2458 (deg F)

Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 1114.8191 %)

Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 888.0481 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.0619	77.6980	77.3333	1.7159e-01	1.9000e+00
1	TRF000002	75.8089	76.2313	76.0750	1.3363e-01	1.9000e+00
2	TFM000001	77.7144	78.5580	78.1635	1.9959e-01	1.9000e+00
3	TIN000001	85.1375	85.8728	85.5177	1.7234e-01	1.9002e+00
4	TRV000001	81.9906	82.7263	82.3796	2.0709e-01	1.9001e+00
5	TSR000001	76.6060	77.3457	77.0095	1.7680e-01	1.9000e+00
6	TAO020136	82.8843	84.0437	83.3967	2.4750e-01	1.9001e+00
7	TAO050136	83.2910	84.0248	83.7047	1.6611e-01	1.9001e+00
8	TAO070136	77.4458	78.1884	77.8213	2.0566e-01	1.9000e+00
9	TAO080136	82.3099	82.9392	82.5895	1.4783e-01	1.9001e+00
10	TAO090136	83.1040	83.9453	83.4805	1.9353e-01	1.9001e+00
11	TAO100136	83.0199	83.7565	83.2999	1.5709e-01	1.9001e+00
12	TAO105136	85.5265	86.2624	85.8989	1.8045e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.0876	9.5554e-02	1.9011e+00
14	TAO115136	82.5389	83.3832	82.9968	1.9630e-01	1.9001e+00
15	EMPTY	34.5420	34.7728	34.7543	6.3238e-02	1.9008e+00
16	TAO125136	84.7466	85.2724	85.0178	1.2219e-01	1.9002e+00
17	TAO130136	82.8939	83.5222	83.2525	1.6238e-01	1.9001e+00
18	EMPTY	229.3957	239.7115	234.7477	2.3478e+00	1.9368e+00
19	TAO130048	84.4396	85.0699	84.7525	1.6075e-01	1.9001e+00
20	TAO120224	80.6418	81.3798	80.9731	1.8447e-01	1.9001e+00
21	EMPTY	-456.7448	-456.0126	-456.2394	2.5501e-01	2.0354e+00
22	TAO120312	82.8877	83.7303	83.3070	1.7474e-01	1.9001e+00
23	TAO130312	83.4175	84.2578	83.8310	1.6361e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5236	1.5700e-01	1.9009e+00
25	TRT070000	83.1521	83.9967	83.6948	1.8475e-01	1.9001e+00
26	TRT100000	84.1186	84.7495	84.4318	1.7938e-01	1.9001e+00
27	TRT120000	83.4525	84.0841	83.8292	1.3952e-01	1.9001e+00
28	TRT125000	86.1422	86.8744	86.5169	1.6528e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.8594	1.1381e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9316	2.0256e-01	1.9011e+00
31	TAF050136	84.4073	85.0368	84.7572	1.7562e-01	1.9001e+00
32	TAF070136	83.5122	84.2458	83.8333	1.9080e-01	1.9001e+00
33	TAF080136	82.9128	83.5431	83.2762	1.6441e-01	1.9001e+00
34	TAF090136	82.9282	83.7696	83.3049	2.3371e-01	1.9001e+00
35	TAF100136	83.2353	84.0779	83.6922	1.8855e-01	1.9001e+00
36	TAF105136	83.9440	84.8834	84.4262	2.1920e-01	1.9001e+00
37	TAF110136	81.8986	82.5301	82.2498	1.3539e-01	1.9001e+00
38	TAF115136	84.9047	85.7444	85.3604	2.1264e-01	1.9002e+00
39	TAF120136	84.3894	84.9153	84.6690	1.2494e-01	1.9001e+00
40	TAF125136	83.4590	84.0895	83.7844	1.7633e-01	1.9001e+00
41	TAF130136	83.1182	83.9601	83.5537	1.6876e-01	1.9001e+00
42	TAF120048	82.8830	83.7305	83.3721	1.9823e-01	1.9001e+00
43	TAF130048	83.7115	84.2377	83.9829	1.1469e-01	1.9001e+00
44	TAF120224	83.2870	84.1287	83.7185	1.5511e-01	1.9001e+00
45	TAF130224	83.2407	83.8734	83.5165	1.2392e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5661	2.1467e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.7031	1.0433e-01	1.9010e+00
48	TAI130048	83.2670	84.6350	84.0313	2.9289e-01	1.9001e+00
49	EMPTY	30.3254	31.2749	30.8525	1.8751e-01	1.9006e+00
50	TAI130224	83.2444	84.2994	83.7028	2.7175e-01	1.9001e+00
51	EMPTY	37.7675	38.4572	38.2319	1.8861e-01	1.9010e+00
52	TRR130000	83.0813	83.9218	83.4577	2.4288e-01	1.9001e+00
53	TSI000001	45.8280	46.4787	46.1335	1.4647e-01	1.9004e+00
54	TSI000002	62.2992	63.4750	62.9002	2.8957e-01	1.9000e+00
55	TSO000001	46.0512	47.1409	46.5937	2.3233e-01	1.9004e+00
56	TSO000002	69.8165	70.6673	70.2055	2.1979e-01	1.9000e+00
57	TAF020136	76.4597	77.3091	76.8358	1.8742e-01	1.9000e+00
58	TAF120312	84.7143	85.7636	85.2117	2.6099e-01	1.9002e+00
59	TAF130312	82.3958	83.2366	82.7930	1.6485e-01	1.9001e+00
60	EMPTY	0.3467	0.3516	0.3474	1.7115e-03	0.0000e+00
61	EMPTY	0.3613	0.3662	0.3629	2.3008e-03	0.0000e+00
62	EMPTY	0.3760	0.3809	0.3762	9.6655e-04	0.0000e+00
63	EMPTY	0.3906	0.4004	0.3950	1.7784e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2971	1.8082e-03	0.0000e+00
65	EMPTY	0.3174	0.3174	0.3174	0.0000e+00	0.0000e+00
66	EMPTY	0.3320	0.3418	0.3335	2.4662e-03	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3517	6.9053e-04	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3664	9.6655e-04	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3858	6.9053e-04	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4006	9.6655e-04	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4249	6.9053e-04	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4396	6.9053e-04	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4596	1.6028e-03	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4761	2.4662e-03	0.0000e+00
75	EMPTY	0.4883	0.4980	0.4932	9.8648e-04	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5086	1.8082e-03	0.0000e+00
77	EMPTY	0.5273	0.5322	0.5291	2.3675e-03	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5519	6.9053e-04	0.0000e+00
79	EMPTY	0.5762	0.5811	0.5763	6.9053e-04	0.0000e+00
80	PAN020136	17.5900	18.9633	18.3209	2.5049e-01	8.7120e-01
81	PAN050136	34.5347	35.6028	35.1542	2.7643e-01	1.6823e+00
82	PAN070136	26.7467	27.8148	27.2609	2.7348e-01	8.7267e-01
83	PAN080136	10.7413	11.7332	11.2296	2.9083e-01	8.7045e-01
84	PAN090136	11.8214	12.4318	12.1876	1.1939e-01	8.7053e-01
85	PAN100136	11.3085	11.8425	11.6182	1.2177e-01	8.7048e-01
86	PAN105136	5.5914	6.0492	5.7745	9.9892e-02	8.7012e-01
87	PAN110136	5.9764	6.5105	6.2130	1.2827e-01	8.7014e-01
88	PAN115136	9.1045	9.7148	9.3990	1.3787e-01	8.7032e-01
89	PAN120136	4.3872	4.9976	4.6191	1.4538e-01	8.7008e-01
90	PAN125136	6.3341	7.0208	6.7156	1.3613e-01	8.7016e-01
91	PAN130136	5.0675	5.8304	5.4536	1.9153e-01	8.7011e-01
92	PAN120048	11.8231	12.7386	12.3145	1.9568e-01	8.7054e-01
93	PAN130048	11.5051	11.9629	11.7310	1.1633e-01	8.7049e-01
94	PAN120224	14.1460	14.6801	14.3886	1.2959e-01	8.7074e-01
95	PAN130224	11.6853	12.4482	12.0714	1.8966e-01	8.7052e-01
96	PAN120312	12.4087	13.4005	13.0251	2.5507e-01	8.7061e-01
97	PAN130312	11.4951	11.8766	11.6706	8.8880e-02	8.7049e-01
98	PAB000136	40.4536	40.6825	40.5754	5.8205e-02	5.8880e-01
99	PAB100136	36.5681	36.7512	36.6652	4.5907e-02	5.8720e-01
100	PAB125136	35.3867	35.5241	35.4691	3.8131e-02	5.8674e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.4389	40.6830	40.5561	8.1646e-02	7.5682e-01
102	PRV000001	19.6973	19.8194	19.6997	1.7263e-02	7.5162e-01
103	PSR000001	33.8545	34.0987	33.9277	6.5249e-02	7.5478e-01
104	PFM000001	42.7189	43.4514	43.0522	2.1788e-01	5.1145e-01
105	PAN000136	152.5259	156.6458	154.8605	9.4879e-01	4.9352e+00
106	PFM000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0070	2.4484e-03	0.0000e+00
108	EMPTY	-5.8545	-3.8428	-5.0120	6.2584e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0005	1.4797e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1403	7.7324e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0870	9.1779e-02	8.1000e-01
114	VPW000003	-0.1153	0.2753	0.1308	9.5112e-02	8.1000e-01
115	VPW000004	-0.2306	0.1600	0.0663	1.0617e-01	8.1000e-01
116	VPW000005	0.0800	0.4706	0.1464	1.0145e-01	8.1000e-01
117	VPW000006	-0.0400	0.5459	0.1514	1.0799e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	1.5322	1.1219e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.7118	1.2061e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.1123	1.0782e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.2902	1.8429e-01	2.0000e+00
122	IPW000005	0.4000	0.8882	0.6343	2.4640e-01	2.0000e+00
123	IPW000006	-0.7766	0.6883	0.0438	3.0309e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0190	3.7239e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.8334e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0158	3.0501e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0137	2.9594e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0289	9.8963e-02	4.1000e+00
129	IHT000002	0.0706	0.2659	0.1722	9.8569e-02	4.1000e+00
130	IHT000003	0.0259	0.2212	0.1236	9.8648e-02	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1631	6.7888e-02	4.1000e+00
132	IHT000005	0.0753	0.6612	0.1769	1.2627e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2103	9.6332e-02	4.1000e+00
134	IHT000007	0.0400	0.4306	0.1494	1.0559e-01	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1377	9.8648e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0441	9.1354e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1006	9.6976e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0391	7.8918e-02	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.0719	1.0559e-01	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0141	9.3710e-02	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1036	8.2864e-02	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0627	9.6735e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	-0.0292	8.6541e-02	4.1000e+00
144	IHT000017	0.3647	1.1459	0.6303	2.1526e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.1170	8.1729e-02	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.1247	6.8345e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0273	8.6541e-02	4.1000e+00
148	IHT000021	-1.1934	-0.6075	-0.8927	1.2608e-01	4.1000e+00
149	IHT000022	0.0000	0.1953	0.0234	6.4113e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1170	9.0756e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	0.9884	9.6332e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3561	1.0052e-01	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0956	6.6498e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1366	8.4997e-02	4.1000e+00
155	IHT000028	-0.2000	0.1906	0.0578	1.0763e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.0898	9.8332e-02	4.1000e+00
157	IHT000030	0.0000	0.3906	0.0938	1.0617e-01	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2119	1.0168e-01	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1366	9.3710e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9323	9.8963e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1445	1.1712e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1428	9.5357e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0995	7.1136e-02	4.1000e+00

Velocity 1 = 16.6407 (ft/sec) (+/- 3.5190 %)
Velocity 2 = 13.3634 (ft/sec) (+/- 3.4861 %)
Pressure drop = 5.5781 (psi)
Tsats in = 268.0895 (deg F) Tsats out = 260.0947 (deg F)
Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 1165.0658 %)
Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 1081.1243 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.0619	77.4860	77.3129	1.6582e-01	1.9000e+00
1	TRF000002	75.8089	76.2313	76.0330	1.4561e-01	1.9000e+00
2	TFM000001	77.7138	78.4527	78.1339	1.9080e-01	1.9000e+00
3	TIN000001	85.0321	85.8728	85.4225	1.9189e-01	1.9002e+00
4	TRV000001	81.9906	82.7254	82.3232	1.7843e-01	1.9001e+00
5	TSR000001	76.7116	77.2397	76.9768	1.3987e-01	1.9000e+00
6	TAO020136	82.8843	83.7284	83.4030	2.4894e-01	1.9001e+00
7	TAO050136	83.2910	83.9211	83.5828	1.6484e-01	1.9001e+00
8	TAO070136	77.3398	78.0824	77.8009	1.8802e-01	1.9000e+00
9	TAO080136	82.2048	82.8352	82.5608	1.5569e-01	1.9001e+00
10	TAO090136	82.8940	83.8398	83.3767	1.8932e-01	1.9001e+00
11	TAO100136	82.8097	83.5461	83.2562	1.4956e-01	1.9001e+00
12	TAO105136	85.5266	86.2624	85.8465	2.0574e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.0881	1.1703e-01	1.9011e+00
14	TAO115136	82.3272	83.2777	82.9092	2.1799e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.7775	3.2957e-02	1.9008e+00
16	TAO125136	84.5368	85.1670	84.9612	1.3213e-01	1.9002e+00
17	TAO130136	82.8939	83.4173	83.1937	1.3167e-01	1.9001e+00
18	EMPTY	228.2641	237.8436	232.7227	2.4810e+00	1.9361e+00
19	TAO130048	84.3347	84.9646	84.7032	1.5463e-01	1.9001e+00
20	TAO120224	80.5368	81.3798	80.8981	1.7211e-01	1.9001e+00
21	EMPTY	-451.9933	-451.2640	-451.6882	2.3945e-01	2.0328e+00
22	TAO120312	82.8877	83.6248	83.2511	1.5356e-01	1.9001e+00
23	TAO130312	83.4169	84.1518	83.8073	1.6326e-01	1.9001e+00
24	EMPTY	37.0772	37.7675	37.5140	1.8927e-01	1.9009e+00
25	TRT070000	83.2571	83.9967	83.6176	1.4288e-01	1.9001e+00
26	TRT100000	84.0137	84.7489	84.4039	1.7669e-01	1.9001e+00
27	TRT120000	83.4531	84.0833	83.7468	1.4705e-01	1.9001e+00
28	TRT125000	86.1428	86.7697	86.5286	1.7626e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9036	1.3209e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.8914	2.1225e-01	1.9011e+00
31	TAF050136	84.4064	84.9314	84.6852	1.5068e-01	1.9001e+00
32	TAF070136	83.5122	84.1409	83.7927	1.8060e-01	1.9001e+00
33	TAF080136	82.9128	83.5426	83.2216	1.4888e-01	1.9001e+00
34	TAF090136	82.7180	83.8748	83.2975	2.8313e-01	1.9001e+00
35	TAF100136	83.2353	83.9724	83.5791	1.8079e-01	1.9001e+00
36	TAF105136	83.8385	84.8834	84.3102	2.1115e-01	1.9001e+00
37	TAF110136	81.8991	82.4245	82.1669	1.4399e-01	1.9001e+00
38	TAF115136	84.9047	85.6396	85.2733	1.8189e-01	1.9002e+00
39	TAF120136	84.3894	84.8099	84.6169	1.1622e-01	1.9001e+00
40	TAF125136	83.4590	83.9840	83.7653	1.3181e-01	1.9001e+00
41	TAF130136	83.1182	83.7494	83.4746	1.5605e-01	1.9001e+00
42	TAF120048	82.7780	83.7305	83.3348	2.0815e-01	1.9001e+00
43	TAF130048	83.7115	84.1323	83.9477	1.1063e-01	1.9001e+00
44	TAF120224	83.2870	84.1287	83.7166	1.6609e-01	1.9001e+00
45	TAF130224	83.2407	83.6616	83.4770	1.1067e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	35.9257	36.8470	36.5839	2.3505e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6830	1.1204e-01	1.9010e+00
48	TAI130048	83.3726	84.5301	83.9911	3.1683e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8245	1.9527e-01	1.9006e+00
50	TAI130224	83.0344	84.1945	83.6498	2.9783e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2602	1.7558e-01	1.9010e+00
52	TRR130000	82.8714	83.8169	83.4247	2.4503e-01	1.9001e+00
53	TSI000001	45.6109	46.3699	46.0712	1.4768e-01	1.9004e+00
54	TSI000002	62.7266	63.6880	63.1652	2.6362e-01	1.9000e+00
55	TSO000001	46.2699	47.2491	46.7696	2.0117e-01	1.9004e+00
56	TSO000002	69.6031	70.6673	70.0876	2.0722e-01	1.9000e+00
57	TAF020136	76.3541	77.2031	76.7742	1.9385e-01	1.9000e+00
58	TAF120312	84.7143	85.5535	85.1405	2.5352e-01	1.9002e+00
59	TAF130312	82.2907	83.0261	82.6940	1.5950e-01	1.9001e+00
60	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
61	EMPTY	0.3564	0.3662	0.3614	1.2165e-03	0.0000e+00
62	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
63	EMPTY	0.3906	0.3955	0.3913	1.7263e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2967	2.1215e-03	0.0000e+00
65	EMPTY	0.3174	0.3223	0.3175	6.9754e-04	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3325	1.4934e-03	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3517	6.9754e-04	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3663	6.9754e-04	0.0000e+00
69	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4005	6.9754e-04	0.0000e+00
71	EMPTY	0.4248	0.4248	0.4248	0.0000e+00	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4396	6.9754e-04	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4591	6.9754e-04	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4749	2.1781e-03	0.0000e+00
75	EMPTY	0.4932	0.4932	0.4932	0.0000e+00	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5081	1.1827e-03	0.0000e+00
77	EMPTY	0.5273	0.5322	0.5281	1.8234e-03	0.0000e+00
78	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
79	EMPTY	0.5762	0.5762	0.5762	0.0000e+00	0.0000e+00
80	PAN020136	17.5900	18.9633	18.1194	2.6356e-01	8.7118e-01
81	PAN050136	34.6873	35.9080	35.4595	2.3599e-01	1.6823e+00
82	PAN070136	26.5178	27.8911	27.2854	3.4417e-01	8.7267e-01
83	PAN080136	11.1991	11.7332	11.4934	1.4016e-01	8.7047e-01
84	PAN090136	11.9740	12.4318	12.1686	9.9793e-02	8.7053e-01
85	PAN100136	10.9270	11.4611	11.1543	1.3351e-01	8.7045e-01
86	PAN105136	5.4388	5.8966	5.6740	1.0994e-01	8.7012e-01
87	PAN110136	5.9764	6.3579	6.1664	8.5473e-02	8.7014e-01
88	PAN115136	9.4097	9.9437	9.7553	1.2946e-01	8.7034e-01
89	PAN120136	4.0057	4.6161	4.3327	1.3577e-01	8.7007e-01
90	PAN125136	6.7919	7.2496	7.0379	1.1577e-01	8.7018e-01
91	PAN130136	4.7623	5.5253	5.0815	1.8667e-01	8.7009e-01
92	PAN120048	11.5179	12.5098	12.0754	2.8041e-01	8.7052e-01
93	PAN130048	11.3525	11.9629	11.5830	1.4814e-01	8.7048e-01
94	PAN120224	14.3749	14.7563	14.5290	1.0388e-01	8.7076e-01
95	PAN130224	12.0668	12.5245	12.3066	1.0093e-01	8.7054e-01
96	PAN120312	13.0953	13.5531	13.3429	1.0849e-01	8.7064e-01
97	PAN130312	11.5714	12.0292	11.7941	1.0771e-01	8.7050e-01
98	PAB000136	40.4078	40.5910	40.4863	4.7646e-02	5.8877e-01
99	PAB100136	36.4766	36.7055	36.5924	4.0839e-02	5.8717e-01
100	PAB125136	35.2952	35.4325	35.3783	4.3501e-02	5.8670e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3168	40.6830	40.4887	8.2335e-02	7.5680e-01
102	PRV000001	19.6973	19.6973	19.6973	1.3490e-05	7.5161e-01
103	PSR000001	33.7325	33.8545	33.8520	1.7439e-02	7.5476e-01
104	PFM000001	42.6274	44.0007	43.1749	3.0507e-01	5.1152e-01
105	PAN000136	152.5259	156.6458	154.4317	9.6812e-01	4.9351e+00
106	PFM000002	27.7669	27.7669	27.7669	1.1563e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0074	2.4662e-03	0.0000e+00
108	EMPTY	-6.0205	-3.8672	-5.1046	6.6141e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0007	1.7263e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1287	9.3412e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0873	9.2715e-02	8.1000e-01
114	VPW000003	-0.1153	0.2753	0.0920	9.2715e-02	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0484	9.7656e-02	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1637	9.7656e-02	8.1000e-01
117	VPW000006	-0.0400	0.5459	0.1832	1.3223e-01	8.1000e-01
118	IPW000001	-1.5525	4.3045	1.1170	1.1751e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.4793	1.0507e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.5492	1.1244e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.3399	1.6787e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.4398	2.9626e-01	2.0000e+00
123	IPW000006	-0.2883	1.1766	0.0804	3.5282e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0212	3.6690e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0129	2.7646e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0171	2.8406e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0136	3.3453e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0258	1.0533e-01	4.1000e+00
129	IHT000002	0.0706	0.4612	0.1543	1.0548e-01	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1336	1.0594e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1792	1.0268e-01	4.1000e+00
132	IHT000005	-0.1200	0.4659	0.1670	1.1348e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.1905	1.1560e-01	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1277	9.8153e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1078	9.3931e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0115	1.0836e-01	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1513	1.0156e-01	4.1000e+00
138	IHT000011	0.0000	0.3906	0.1076	1.1319e-01	4.1000e+00
139	IHT000012	-0.2328	0.3531	0.1339	1.1714e-01	4.1000e+00
140	IHT000013	-0.0094	0.3813	0.0943	1.0625e-01	4.1000e+00
141	IHT000014	0.1153	0.5059	0.1711	9.7656e-02	4.1000e+00
142	IHT000015	-0.1600	0.4259	0.0991	1.0836e-01	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0276	9.8153e-02	4.1000e+00
144	IHT000017	0.1694	1.1459	0.6357	2.2132e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.1321	7.9736e-02	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.1207	6.2908e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0443	9.3931e-02	4.1000e+00
148	IHT000021	-1.1934	-0.6075	-0.9503	1.5197e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0000	5.6382e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1002	9.0949e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	0.9607	7.1817e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3720	7.3601e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0800	3.9868e-02	4.1000e+00
154	IHT000027	-0.0353	0.1600	0.1162	8.2338e-02	4.1000e+00
155	IHT000028	-0.0047	0.3859	0.0272	8.3122e-02	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.0478	8.4860e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0518	8.7123e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.1994	1.1044e-01	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1281	1.0044e-01	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9673	1.1248e-01	4.1000e+00
161	IHT000034	0.0000	0.3906	0.0996	1.0640e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1232	9.3412e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.1079	9.7656e-02	4.1000e+00

Velocity 1 = 0.023499 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.015500 (psi)

Tsat in = 0.131195 (deg F) Tsat out = 0.151093 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0204	0.0264
1	TRF000002	0.0420	0.0552
2	TFM000001	0.0296	0.0379
3	TIN000001	0.0952	0.1113
4	TRV000001	0.0564	0.0685
5	TSR000001	0.0327	0.0425
6	TAO020136	0.0063	0.0076
7	TAO050136	0.1219	0.1456
8	TAO070136	0.0204	0.0262
9	TAO080136	0.0287	0.0348
10	TAO090136	0.1038	0.1243
11	TAO100136	0.0437	0.0525
12	TAO105136	0.0524	0.0610
13	EMPTY	0.0005	0.0012
14	TAO115136	0.0876	0.1055
15	EMPTY	0.0232	0.0668
16	TAO125136	0.0566	0.0666
17	TAO130136	0.0588	0.0706
18	EMPTY	2.0250	0.8626
19	TAO130048	0.0493	0.0582
20	TAO120224	0.0750	0.0926
21	EMPTY	4.5512	0.9975
22	TAO120312	0.0559	0.0671
23	TAO130312	0.0237	0.0283
24	EMPTY	0.0096	0.0256
25	TRT070000	0.0772	0.0922
26	TRT100000	0.0279	0.0330
27	TRT120000	0.0824	0.0983
28	TRT125000	0.0117	0.0135
29	EMPTY	0.0442	0.1167
30	EMPTY	0.0402	0.1007
31	TAF050136	0.0720	0.0849
32	TAF070136	0.0406	0.0484
33	TAF080136	0.0546	0.0656
34	TAF090136	0.0074	0.0089
35	TAF100136	0.1131	0.1351
36	TAF105136	0.1160	0.1374
37	TAF110136	0.0829	0.1008
38	TAF115136	0.0871	0.1020
39	TAF120136	0.0521	0.0615
40	TAF125136	0.0191	0.0228
41	TAF130136	0.0791	0.0947
42	TAF120048	0.0373	0.0447
43	TAF130048	0.0352	0.0419
44	TAF120224	0.0019	0.0023
45	TAF130224	0.0395	0.0473

#	Name	Abs Diff	%Diff
46	EMPTY	0.0178	0.0487
47	EMPTY	0.0201	0.0533
48	TAI130048	0.0402	0.0478
49	EMPTY	0.0280	0.0908
50	TAI130224	0.0530	0.0633
51	EMPTY	0.0283	0.0740
52	TRR130000	0.0330	0.0395
53	TSI000001	0.0623	0.1350
54	TSI000002	0.2650	0.4213
55	TSO000001	0.1759	0.3775
56	TSO000002	0.1179	0.1679
57	TAF020136	0.0616	0.0802
58	TAF120312	0.0712	0.0836
59	TAF130312	0.0990	0.1196
60	EMPTY	0.0007	0.2015
61	EMPTY	0.0015	0.4133
62	EMPTY	0.0002	0.0532
63	EMPTY	0.0037	0.9367
64	EMPTY	0.0004	0.1346
65	EMPTY	0.0001	0.0315
66	EMPTY	0.0010	0.2998
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0001	0.0273
69	EMPTY	0.0001	0.0259
70	EMPTY	0.0001	0.0250
71	EMPTY	0.0001	0.0235
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0005	0.1088
74	EMPTY	0.0012	0.2520
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0005	0.0983
77	EMPTY	0.0010	0.1890
78	EMPTY	0.0001	0.0181
79	EMPTY	0.0001	0.0174
80	PAN020136	0.2015	1.0998
81	PAN050136	0.3053	0.8685
82	PAN070136	0.0245	0.0899
83	PAN080136	0.2638	2.3491
84	PAN090136	0.0190	0.1559
85	PAN100136	0.4639	3.9929
86	PAN105136	0.1005	1.7404
87	PAN110136	0.0466	0.7500
88	PAN115136	0.3563	3.7908
89	PAN120136	0.2864	6.2003
90	PAN125136	0.3223	4.7993
91	PAN130136	0.3721	6.8230
92	PAN120048	0.2391	1.9416
93	PAN130048	0.1480	1.2616
94	PAN120224	0.1404	0.9758
95	PAN130224	0.2352	1.9484
96	PAN120312	0.3178	2.4399
97	PAN130312	0.1235	1.0582
98	PAB000136	0.0891	0.2196
99	PAB100136	0.0728	0.1986
100	PAB125136	0.0908	0.2560

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0674	0.1662
102	PRV000001	0.0024	0.0122
103	PSR000001	0.0757	0.2231
104	PFM000001	0.1227	0.2850
105	PAN000136	0.4288	0.2769
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0004	5.7143
108	EMPTY	0.0926	1.8476
109	EMPTY	0.0001	2.0833
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	40.0000
112	VPW000001	0.0116	8.2680
113	VPW000002	0.0003	0.3448
114	VPW000003	0.0388	29.6636
115	VPW000004	0.0179	26.9985
116	VPW000005	0.0173	11.8169
117	VPW000006	0.0318	21.0040
118	IPW000001	0.4152	27.0983
119	IPW000002	0.2325	32.6637
120	IPW000003	0.4369	39.2790
121	IPW000004	0.0497	17.1261
122	IPW000005	0.1945	30.6637
123	IPW000006	0.0366	83.5616
124	EMPTY	0.0022	11.5789
125	EMPTY	0.0003	2.2727
126	EMPTY	0.0013	8.2279
127	EMPTY	0.0001	0.7299
128	IHT000001	0.0031	10.7266
129	IHT000002	0.0179	10.3949
130	IHT000003	0.0100	8.0906
131	IHT000004	0.0161	9.8712
132	IHT000005	0.0099	5.5964
133	IHT000006	0.0198	9.4151
134	IHT000007	0.0217	14.5248
135	IHT000008	0.0299	21.7139
136	IHT000009	0.0326	73.9229
137	IHT000010	0.0507	50.3976
138	IHT000011	0.0685	175.1918
139	IHT000012	0.0620	86.2309
140	IHT000013	0.0802	568.7944
141	IHT000014	0.0675	65.1544
142	IHT000015	0.0364	58.0542
143	IHT000016	0.0568	194.5205
144	IHT000017	0.0054	0.8567
145	IHT000018	0.0151	12.9060
146	IHT000019	0.0040	3.2077
147	IHT000020	0.0170	62.2711
148	IHT000021	0.0576	6.4523
149	IHT000022	0.0234	100.0000
150	IHT000023	0.0168	14.3590
151	IHT000024	0.0277	2.8025
152	IHT000025	0.0159	4.4650
153	IHT000026	0.0156	16.3180
154	IHT000027	0.0204	14.9341
155	IHT000028	0.0306	52.9412

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0420	46.7706
157	IHT000030	0.0420	44.7761
158	IHT000031	0.0125	5.8990
159	IHT000032	0.0085	6.2226
160	IHT000033	0.0350	1.8113
161	IHT000034	0.0449	31.0727
162	IHT000035	0.0196	13.7255
163	IHT000036	0.0084	8.4422

Velocity 1 = 14.6539 (ft/sec) (+/- 3.5507 %)
Velocity 2 = 13.3633 (ft/sec) (+/- 3.4861 %)
Pressure drop = 3.3485 (psi)
Tsat in = 268.1951 (deg F) Tsat out = 263.7076 (deg F)
Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 1319.9525 %)
Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 864.4238 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.0619	77.6980	77.4478	1.9951e-01	1.9000e+00
1	TRF000002	76.0201	76.4424	76.1594	1.2518e-01	1.9000e+00
2	TFM000001	77.5030	78.5586	78.0648	2.4160e-01	1.9000e+00
3	TIN000001	85.0320	85.7680	85.3979	1.5060e-01	1.9002e+00
4	TRV000001	81.7817	82.6222	82.2647	2.0683e-01	1.9001e+00
5	TSR000001	76.8171	77.3457	77.0921	1.5394e-01	1.9000e+00
6	TAO020136	82.9898	84.0437	83.4830	2.7227e-01	1.9001e+00
7	TAO050136	83.1867	83.8174	83.5526	1.5768e-01	1.9001e+00
8	TAO070136	77.4458	78.3997	77.9292	2.1320e-01	1.9000e+00
9	TAO080136	82.2058	82.7317	82.4627	1.7519e-01	1.9001e+00
10	TAO090136	82.9996	83.6300	83.3108	1.5603e-01	1.9001e+00
11	TAO100136	82.8101	83.5464	83.1635	1.6019e-01	1.9001e+00
12	TAO105136	85.3162	86.0527	85.7160	1.8878e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.1151	1.0660e-01	1.9011e+00
14	TAO115136	82.5378	83.3832	82.9265	2.2028e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8420	1.0679e-01	1.9008e+00
16	TAO125136	84.6417	85.0627	84.8985	1.2601e-01	1.9001e+00
17	TAO130136	82.8966	83.4205	83.1069	1.4512e-01	1.9001e+00
18	EMPTY	236.7212	255.8232	244.0366	4.7370e+00	1.9397e+00
19	TAO130048	84.3351	84.8607	84.6337	1.5788e-01	1.9001e+00
20	TAO120224	80.5368	81.2748	80.8489	1.9753e-01	1.9001e+00
21	EMPTY	-465.1952	-464.8266	-465.0773	1.7368e-01	2.0405e+00
22	TAO120312	82.8877	83.5198	83.2122	1.5758e-01	1.9001e+00
23	TAO130312	83.3131	83.9432	83.6992	1.6910e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5696	1.8597e-01	1.9010e+00
25	TRT070000	83.2571	83.8904	83.6031	1.6666e-01	1.9001e+00
26	TRT100000	83.9089	84.7495	84.3042	2.0194e-01	1.9001e+00
27	TRT120000	83.3473	84.0841	83.6802	1.6378e-01	1.9001e+00
28	TRT125000	86.1422	86.9796	86.4780	2.0262e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9192	1.1004e-01	1.9010e+00
30	EMPTY	39.3761	40.2940	39.8902	2.1527e-01	1.9011e+00
31	TAF050136	84.3019	84.9323	84.6551	1.7459e-01	1.9001e+00
32	TAF070136	83.3032	84.1424	83.7107	1.9356e-01	1.9001e+00
33	TAF080136	82.8091	83.4394	83.1373	1.6232e-01	1.9001e+00
34	TAF090136	82.5080	83.6649	83.1348	2.5758e-01	1.9001e+00
35	TAF100136	83.0246	83.9723	83.5048	1.8928e-01	1.9001e+00
36	TAF105136	83.7354	84.8852	84.3499	2.5910e-01	1.9001e+00
37	TAF110136	81.7945	82.3205	82.1518	1.3790e-01	1.9001e+00
38	TAF115136	84.9052	85.6395	85.2244	1.7216e-01	1.9002e+00
39	TAF120136	84.2851	84.7062	84.5461	1.2073e-01	1.9001e+00
40	TAF125136	83.3554	84.0895	83.6743	1.5577e-01	1.9001e+00
41	TAF130136	83.0128	83.6446	83.4340	1.5338e-01	1.9001e+00
42	TAF120048	82.6708	83.7288	83.2292	2.4303e-01	1.9001e+00
43	TAF130048	83.6060	84.2377	83.8714	1.4307e-01	1.9001e+00
44	TAF120224	83.2871	84.0238	83.6365	1.8714e-01	1.9001e+00
45	TAF130224	83.1338	83.6621	83.4162	1.2506e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5661	2.1467e-01	1.9009e+00
47	EMPTY	37.3074	37.9974	37.6709	1.3218e-01	1.9010e+00
48	TAI130048	83.1615	84.5301	83.9071	3.4005e-01	1.9001e+00
49	EMPTY	30.3254	31.2749	30.8762	1.9443e-01	1.9006e+00
50	TAI130224	82.9283	84.1939	83.5991	3.0797e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2733	1.5403e-01	1.9010e+00
52	TRR130000	82.7665	84.0273	83.4350	2.3318e-01	1.9001e+00
53	TSI000001	45.8280	46.5869	46.2399	1.6688e-01	1.9004e+00
54	TSI000002	62.2992	63.5822	62.7829	3.1379e-01	1.9000e+00
55	TSO000001	46.2688	47.3578	46.7132	2.4881e-01	1.9004e+00
56	TSO000002	69.8159	70.6673	70.2715	1.9230e-01	1.9000e+00
57	TAF020136	76.4584	77.2036	76.9055	1.7833e-01	1.9000e+00
58	TAF120312	84.4000	85.5542	85.0130	3.1310e-01	1.9002e+00
59	TAF130312	82.2912	83.0271	82.6363	1.8013e-01	1.9001e+00
60	EMPTY	0.3369	0.3467	0.3425	1.9754e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3572	1.8082e-03	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3713	9.6655e-04	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3872	2.2603e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2931	6.9053e-04	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3132	1.7115e-03	0.0000e+00
66	EMPTY	0.3271	0.3320	0.3313	1.7115e-03	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3494	2.4484e-03	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3642	2.4344e-03	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3814	1.6028e-03	0.0000e+00
70	EMPTY	0.3955	0.4004	0.3990	2.2146e-03	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4221	2.4484e-03	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4362	2.3365e-03	0.0000e+00
73	EMPTY	0.4541	0.4590	0.4573	2.3365e-03	0.0000e+00
74	EMPTY	0.4736	0.4736	0.4736	0.0000e+00	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4928	1.3381e-03	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5074	1.3381e-03	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5272	6.9053e-04	0.0000e+00
78	EMPTY	0.5469	0.5518	0.5498	2.4164e-03	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5714	6.9053e-04	0.0000e+00
80	PAN020136	10.0369	11.6390	10.6976	2.7556e-01	8.7041e-01
81	PAN050136	20.6492	21.5647	21.0947	2.1098e-01	1.6808e+00
82	PAN070136	16.1418	17.0574	16.5279	1.9583e-01	8.7098e-01
83	PAN080136	6.4689	6.9266	6.6794	1.1592e-01	8.7016e-01
84	PAN090136	7.0912	7.5490	7.2819	9.7789e-02	8.7019e-01
85	PAN100136	6.2731	6.7308	6.5813	1.1427e-01	8.7016e-01
86	PAN105136	2.9974	3.4552	3.1912	1.0702e-01	8.7004e-01
87	PAN110136	3.6113	3.8402	3.7181	8.0092e-02	8.7005e-01
88	PAN115136	6.3579	6.8920	6.6860	1.0019e-01	8.7016e-01
89	PAN120136	1.7932	2.2510	2.0221	1.1115e-01	8.7001e-01
90	PAN125136	4.3505	4.7319	4.5519	8.8222e-02	8.7007e-01
91	PAN130136	2.6261	3.0839	2.9313	9.3758e-02	8.7003e-01
92	PAN120048	7.0166	7.3981	7.2256	9.8467e-02	8.7019e-01
93	PAN130048	6.4697	6.9275	6.7215	1.0595e-01	8.7016e-01
94	PAN120224	8.8054	9.2632	9.0221	9.7923e-02	8.7020e-01
95	PAN130224	7.1840	7.6417	7.4754	1.0071e-01	8.7020e-01
96	PAN120312	8.0599	8.5940	8.3026	1.2008e-01	8.7025e-01
97	PAN130312	6.8412	7.2227	6.9709	9.8996e-02	8.7017e-01
98	PAB000136	40.4994	40.6825	40.5580	4.6278e-02	5.8880e-01
99	PAB100136	38.2618	38.4450	38.3415	4.2189e-02	5.8787e-01
100	PAB125136	37.5382	37.6755	37.6096	4.4507e-02	5.8757e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.4389	40.8051	40.5561	8.5289e-02	7.5682e-01
102	PRV000001	19.5752	19.6973	19.5777	1.7263e-02	7.5160e-01
103	PSR000001	36.2959	36.4180	36.4155	1.7263e-02	7.5551e-01
104	PFM000001	33.0144	33.7468	33.4300	1.7074e-01	5.0694e-01
105	PAN000136	90.7278	95.7632	92.7053	9.4513e-01	4.9255e+00
106	PFM000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
108	EMPTY	-5.8838	-3.9551	-5.0581	6.0887e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1481	1.0168e-01	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.1417	1.0145e-01	8.1000e-01
114	VPW000003	0.0800	0.2753	0.1386	9.0412e-02	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0545	1.0595e-01	8.1000e-01
116	VPW000005	-0.1153	0.2753	0.1503	1.0259e-01	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1553	9.6655e-02	8.1000e-01
118	IPW000001	0.3998	4.3045	1.6103	1.1079e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.7899	1.0430e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	0.8393	1.0688e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.3195	1.6972e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.5660	2.5360e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.0438	2.8659e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0198	3.3322e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0129	3.0819e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0167	2.8058e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0141	3.3656e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0328	9.3043e-02	4.1000e+00
129	IHT000002	-0.1247	0.2659	0.1566	1.0559e-01	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1314	1.0595e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1827	8.8321e-02	4.1000e+00
132	IHT000005	-0.1200	0.4659	0.1456	1.0992e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.1986	1.0052e-01	4.1000e+00
134	IHT000007	0.0400	0.4306	0.1337	1.1327e-01	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1181	9.6655e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0245	1.0297e-01	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1358	9.0412e-02	4.1000e+00
138	IHT000011	0.0000	0.3906	0.0820	1.1223e-01	4.1000e+00
139	IHT000012	-0.0375	0.1578	0.0992	9.0412e-02	4.1000e+00
140	IHT000013	-0.0094	0.3813	0.0570	1.0145e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1192	1.0052e-01	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0705	7.5798e-02	4.1000e+00
143	IHT000016	-0.0800	0.3106	-0.0019	1.0440e-01	4.1000e+00
144	IHT000017	0.1694	0.9506	0.6537	2.2750e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.1092	1.1027e-01	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.1013	8.4997e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0664	9.8332e-02	4.1000e+00
148	IHT000021	-1.1934	-0.6075	-0.8927	1.4342e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0000	5.5804e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1248	7.5798e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	1.0041	9.3710e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3678	7.8523e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0878	7.8523e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1483	7.2866e-02	4.1000e+00
155	IHT000028	-0.0047	0.1906	0.0500	8.8585e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.0820	1.0507e-01	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0703	9.4702e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2119	8.4997e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1209	9.6655e-02	4.1000e+00
160	IHT000033	-1.9753	-1.7800	-1.9519	6.4113e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1133	1.0507e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1350	7.8523e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0995	7.1136e-02	4.1000e+00

Velocity 1 = 14.6456 (ft/sec) (+/- 3.5509 %)
Velocity 2 = 13.3634 (ft/sec) (+/- 3.4861 %)
Pressure drop = 3.3291 (psi)
Tsats in = 268.1570 (deg F) Tsats out = 263.6776 (deg F)
Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 727.7716 %)
Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 916.9388 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.0619	77.6980	77.4730	2.0489e-01	1.9000e+00
1	TRF000002	76.0201	76.4424	76.1968	1.4519e-01	1.9000e+00
2	TFM000001	77.6090	78.5586	78.1236	1.9343e-01	1.9000e+00
3	TIN000001	85.0320	85.7680	85.4375	1.9552e-01	1.9002e+00
4	TRV000001	81.8859	82.7272	82.2918	1.7813e-01	1.9001e+00
5	TSR000001	76.7116	77.4512	77.1344	1.7115e-01	1.9000e+00
6	TAO020136	82.9893	83.9384	83.5382	2.2971e-01	1.9001e+00
7	TAO050136	83.1867	83.9223	83.5730	1.8977e-01	1.9001e+00
8	TAO070136	77.4458	78.3997	77.9757	2.2165e-01	1.9000e+00
9	TAO080136	82.2058	82.8367	82.5385	1.6668e-01	1.9001e+00
10	TAO090136	82.9990	83.7354	83.3493	2.0405e-01	1.9001e+00
11	TAO100136	82.8095	83.5464	83.2114	1.6460e-01	1.9001e+00
12	TAO105136	85.4217	86.2622	85.8270	2.1980e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.1677	1.2444e-01	1.9011e+00
14	TAO115136	82.3256	83.3821	82.8759	2.6768e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8575	1.1237e-01	1.9008e+00
16	TAO125136	84.6417	85.2724	84.9337	1.5216e-01	1.9002e+00
17	TAO130136	82.7916	83.5255	83.1179	1.7282e-01	1.9001e+00
18	EMPTY	252.6943	277.4737	263.4665	6.9229e+00	1.9462e+00
19	TAO130048	84.2302	84.9655	84.6505	1.8064e-01	1.9001e+00
20	TAO120224	80.4310	81.1693	80.8832	1.7085e-01	1.9001e+00
21	EMPTY	-468.1479	-467.7784	-467.8012	8.9482e-02	2.0421e+00
22	TAO120312	82.7820	83.6247	83.2704	1.9425e-01	1.9001e+00
23	TAO130312	83.3120	84.1530	83.7671	1.8003e-01	1.9001e+00
24	EMPTY	37.0772	37.7675	37.5703	1.8188e-01	1.9010e+00
25	TRT070000	83.2571	83.9953	83.6359	2.0316e-01	1.9001e+00
26	TRT100000	84.0138	84.7495	84.3509	2.0554e-01	1.9001e+00
27	TRT120000	83.3473	84.0841	83.7020	1.8180e-01	1.9001e+00
28	TRT125000	86.0390	86.8759	86.5020	1.9209e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9505	1.2401e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9335	1.8736e-01	1.9011e+00
31	TAF050136	84.3019	85.0371	84.6752	1.9404e-01	1.9001e+00
32	TAF070136	83.1998	84.2473	83.7704	2.3250e-01	1.9001e+00
33	TAF080136	82.9141	83.5443	83.2293	1.8307e-01	1.9001e+00
34	TAF090136	82.6135	83.7699	83.2184	2.6599e-01	1.9001e+00
35	TAF100136	83.2347	83.9718	83.5854	2.0657e-01	1.9001e+00
36	TAF105136	83.9435	84.8852	84.3563	2.3892e-01	1.9001e+00
37	TAF110136	81.8986	82.5301	82.1656	1.6917e-01	1.9001e+00
38	TAF115136	84.9052	85.7448	85.3015	2.2290e-01	1.9002e+00
39	TAF120136	84.2851	85.0202	84.5814	1.4974e-01	1.9001e+00
40	TAF125136	83.3554	84.0895	83.6916	1.7931e-01	1.9001e+00
41	TAF130136	83.0128	83.7496	83.4383	1.9330e-01	1.9001e+00
42	TAF120048	82.6708	83.7288	83.2794	2.3212e-01	1.9001e+00
43	TAF130048	83.6060	84.1323	83.8983	1.3969e-01	1.9001e+00
44	TAF120224	83.2865	84.1287	83.6930	2.2435e-01	1.9001e+00
45	TAF130224	83.1338	83.8720	83.4434	1.6587e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5745	2.1883e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6689	1.1501e-01	1.9010e+00
48	TAI130048	83.3726	84.5301	83.9159	3.3439e-01	1.9001e+00
49	EMPTY	30.5629	31.0376	30.8051	1.5692e-01	1.9006e+00
50	TAI130224	83.0333	83.9829	83.5395	2.8396e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2273	1.6919e-01	1.9010e+00
52	TRR130000	82.9776	84.0267	83.4787	2.5209e-01	1.9001e+00
53	TSI000001	45.8274	46.5869	46.2594	1.7918e-01	1.9004e+00
54	TSI000002	62.1929	63.3687	62.7405	2.8835e-01	1.9000e+00
55	TSO000001	46.1600	47.1399	46.6509	2.3843e-01	1.9004e+00
56	TSO000002	69.8159	70.8799	70.2851	2.9043e-01	1.9000e+00
57	TAF020136	76.5658	77.4146	76.9491	2.1210e-01	1.9000e+00
58	TAF120312	84.6096	85.6590	85.0491	3.0774e-01	1.9002e+00
59	TAF130312	82.2917	83.0271	82.6841	1.8421e-01	1.9001e+00
60	EMPTY	0.3418	0.3467	0.3426	1.8234e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3570	1.6172e-03	0.0000e+00
62	EMPTY	0.3711	0.3711	0.3711	0.0000e+00	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3873	2.3135e-03	0.0000e+00
64	EMPTY	0.2881	0.2979	0.2930	9.9670e-04	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3129	1.3508e-03	0.0000e+00
66	EMPTY	0.3271	0.3320	0.3318	9.7615e-04	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3498	2.3783e-03	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3649	2.1781e-03	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3818	1.9103e-03	0.0000e+00
70	EMPTY	0.3955	0.4004	0.3993	2.0584e-03	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4215	2.3135e-03	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4358	2.1215e-03	0.0000e+00
73	EMPTY	0.4541	0.4590	0.4563	2.4538e-03	0.0000e+00
74	EMPTY	0.4688	0.4785	0.4736	9.9670e-04	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4917	2.2737e-03	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5065	2.1781e-03	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5268	1.4934e-03	0.0000e+00
78	EMPTY	0.5469	0.5518	0.5479	1.9883e-03	0.0000e+00
79	EMPTY	0.5664	0.5762	0.5713	9.9670e-04	0.0000e+00
80	PAN020136	10.1132	11.1813	10.6768	2.8197e-01	8.7041e-01
81	PAN050136	20.6492	21.4121	21.0353	1.9969e-01	1.6808e+00
82	PAN070136	16.2944	16.9048	16.6261	1.4235e-01	8.7099e-01
83	PAN080136	6.3926	6.8503	6.6059	9.9694e-02	8.7016e-01
84	PAN090136	7.0912	7.4727	7.2438	8.9463e-02	8.7019e-01
85	PAN100136	6.2731	6.6545	6.4179	9.3758e-02	8.7015e-01
86	PAN105136	2.9974	3.4552	3.2076	9.2829e-02	8.7004e-01
87	PAN110136	3.6113	3.9165	3.7188	8.0800e-02	8.7005e-01
88	PAN115136	6.4342	6.8157	6.6475	9.7231e-02	8.7016e-01
89	PAN120136	1.8695	2.1747	2.0314	7.8846e-02	8.7001e-01
90	PAN125136	4.4268	4.6556	4.5482	6.0151e-02	8.7007e-01
91	PAN130136	2.3972	2.8550	2.6277	1.0845e-01	8.7002e-01
92	PAN120048	6.6351	7.1692	6.8952	1.3389e-01	8.7017e-01
93	PAN130048	6.4697	7.0038	6.6721	1.3977e-01	8.7016e-01
94	PAN120224	8.8817	9.2632	9.0950	9.3414e-02	8.7030e-01
95	PAN130224	7.2603	7.5654	7.4300	9.3784e-02	8.7020e-01
96	PAN120312	8.0599	8.5177	8.3168	1.1726e-01	8.7025e-01
97	PAN130312	6.8412	7.0701	6.9533	6.6260e-02	8.7017e-01
98	PAB000136	40.4078	40.6825	40.5321	6.7381e-02	5.8878e-01
99	PAB100136	38.2618	38.3992	38.3142	4.1788e-02	5.8786e-01
100	PAB125136	37.4924	37.6755	37.5905	4.2820e-02	5.8756e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.1948	40.5610	40.3841	7.5006e-02	7.5676e-01
102	PRV0000001	19.5752	19.5752	19.5752	1.3490e-05	7.5159e-01
103	PSR0000001	36.2959	36.4180	36.3756	5.8707e-02	7.5549e-01
104	PFM0000001	33.0144	33.6552	33.3918	1.4552e-01	5.0692e-01
105	PAN000136	90.2700	94.3899	92.1665	8.5640e-01	4.9254e+00
106	PFM0000002	27.7669	27.7669	27.7669	1.1563e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0056	1.7263e-03	0.0000e+00
108	EMPTY	-6.2061	-3.9258	-5.0122	6.2006e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0047	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9754e-04	0.0000e+00
112	VPW0000001	-0.0706	0.3200	0.1526	8.9148e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.0992	9.4620e-02	8.1000e-01
114	VPW0000003	-0.1153	0.2753	0.1318	1.1117e-01	8.1000e-01
115	VPW0000004	-0.0353	0.1600	0.0643	9.8648e-02	8.1000e-01
116	VPW0000005	0.0800	0.4706	0.1398	9.9303e-02	8.1000e-01
117	VPW0000006	-0.0400	0.3506	0.1713	1.1161e-01	8.1000e-01
118	IPW0000001	0.3998	4.3045	1.6350	1.0311e+00	8.1000e+00
119	IPW0000002	-1.5516	4.3022	0.9969	1.0691e+00	8.1000e+00
120	IPW0000003	1.1513	5.0513	2.6237	1.1626e+00	8.1000e+00
121	IPW0000004	0.3000	1.2766	0.7883	2.4414e-01	2.0000e+00
122	IPW0000005	-0.0883	0.8882	0.2106	2.7863e-01	2.0000e+00
123	IPW0000006	-0.2883	0.6883	0.1900	3.5224e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0195	3.5937e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.8191e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0171	2.6600e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0139	3.0472e-03	0.0000e+00
128	IHT0000001	-0.2094	0.1813	0.0258	8.8965e-02	4.1000e+00
129	IHT0000002	-0.1247	0.2659	0.1384	1.0204e-01	4.1000e+00
130	IHT0000003	-0.1694	0.2212	0.0937	1.0204e-01	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1792	7.5986e-02	4.1000e+00
132	IHT0000005	-0.1200	0.4659	0.1471	1.1755e-01	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.1945	8.8783e-02	4.1000e+00
134	IHT0000007	0.0400	0.2353	0.0998	9.0949e-02	4.1000e+00
135	IHT0000008	-0.1553	0.4306	0.1117	1.1059e-01	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0315	1.1462e-01	4.1000e+00
137	IHT0000010	-0.0400	0.3506	0.1194	9.4962e-02	4.1000e+00
138	IHT0000011	0.0000	0.1953	0.0757	9.6150e-02	4.1000e+00
139	IHT0000012	-0.0375	0.1578	0.0821	9.6150e-02	4.1000e+00
140	IHT0000013	-0.0094	0.3813	0.0385	9.3759e-02	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1273	7.3601e-02	4.1000e+00
142	IHT0000015	-0.1600	0.2306	0.0592	8.5810e-02	4.1000e+00
143	IHT0000016	-0.0800	0.1153	-0.0162	9.2540e-02	4.1000e+00
144	IHT0000017	0.3647	1.1459	0.6477	2.1119e-01	4.1000e+00
145	IHT0000018	-0.0353	0.1600	0.0723	9.8153e-02	4.1000e+00
146	IHT0000019	-0.3200	0.0706	-0.1087	8.7680e-02	4.1000e+00
147	IHT0000020	-0.2188	0.1719	0.0364	9.9303e-02	4.1000e+00
148	IHT0000021	-1.1934	-0.8028	-0.9902	1.4352e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	-0.0040	4.8662e-02	4.1000e+00
150	IHT0000023	-0.0353	0.1600	0.0962	9.2540e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	1.0006	7.1817e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3560	8.4477e-02	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.0880	5.5804e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1361	7.5986e-02	4.1000e+00
155	IHT0000028	-0.0047	0.1906	0.0551	9.0949e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.0917	9.8483e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0678	9.3931e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2433	6.8582e-02	4.1000e+00
159	IHT000032	-0.0353	0.1600	0.1520	3.9046e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9434	9.2189e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1156	1.0486e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1391	8.3705e-02	4.1000e+00
163	IHT000036	0.0800	0.4706	0.1119	8.3122e-02	4.1000e+00

Velocity 1 = 0.008300 (ft/sec)
 Velocity 2 = 0.000100 (ft/sec)
 Pressure Drop = 0.019400 (psi)
 Tsat in = 0.038086 (deg F) Tsat out = 0.029999 (deg F)
 Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0252	0.0325
1	TRF000002	0.0374	0.0491
2	TFM000001	0.0588	0.0753
3	TIN000001	0.0396	0.0464
4	TRV000001	0.0271	0.0329
5	TSR000001	0.0423	0.0549
6	TAO020136	0.0552	0.0661
7	TAO050136	0.0204	0.0244
8	TAO070136	0.0465	0.0597
9	TAO080136	0.0758	0.0919
10	TAO090136	0.0385	0.0462
11	TAO100136	0.0479	0.0576
12	TAO105136	0.1110	0.1295
13	EMPTY	0.0526	0.1311
14	TAO115136	0.0506	0.0610
15	EMPTY	0.0155	0.0445
16	TAO125136	0.0352	0.0415
17	TAO130136	0.0110	0.0132
18	EMPTY	19.4299	7.9619
19	TAO130048	0.0168	0.0199
20	TAO120224	0.0343	0.0424
21	EMPTY	2.7239	0.5857
22	TAO120312	0.0582	0.0699
23	TAO130312	0.0679	0.0811
24	EMPTY	0.0007	0.0019
25	TRT070000	0.0328	0.0392
26	TRT100000	0.0467	0.0554
27	TRT120000	0.0218	0.0261
28	TRT125000	0.0240	0.0278
29	EMPTY	0.0313	0.0825
30	EMPTY	0.0433	0.1085
31	TAF050136	0.0201	0.0237
32	TAF070136	0.0597	0.0713
33	TAF080136	0.0920	0.1107
34	TAF090136	0.0836	0.1006
35	TAF100136	0.0806	0.0965
36	TAF105136	0.0064	0.0076
37	TAF110136	0.0138	0.0168
38	TAF115136	0.0771	0.0905
39	TAF120136	0.0353	0.0418
40	TAF125136	0.0173	0.0207
41	TAF130136	0.0043	0.0052
42	TAF120048	0.0502	0.0603
43	TAF130048	0.0269	0.0321
44	TAF120224	0.0565	0.0676
45	TAF130224	0.0272	0.0326

#	Name	Abs Diff	%Diff
46	EMPTY	0.0084	0.0230
47	EMPTY	0.0020	0.0053
48	TAI130048	0.0088	0.0105
49	EMPTY	0.0711	0.2303
50	TAI130224	0.0596	0.0713
51	EMPTY	0.0460	0.1202
52	TRR130000	0.0437	0.0524
53	TSI000001	0.0195	0.0422
54	TSI000002	0.0424	0.0675
55	TSO000001	0.0623	0.1334
56	TSO000002	0.0136	0.0194
57	TAF020136	0.0436	0.0567
58	TAF120312	0.0361	0.0425
59	TAF130312	0.0478	0.0578
60	EMPTY	0.0001	0.0292
61	EMPTY	0.0002	0.0560
62	EMPTY	0.0002	0.0539
63	EMPTY	0.0001	0.0258
64	EMPTY	0.0001	0.0341
65	EMPTY	0.0003	0.0958
66	EMPTY	0.0005	0.1509
67	EMPTY	0.0004	0.1145
68	EMPTY	0.0007	0.1922
69	EMPTY	0.0004	0.1049
70	EMPTY	0.0003	0.0752
71	EMPTY	0.0006	0.1421
72	EMPTY	0.0004	0.0917
73	EMPTY	0.0010	0.2187
74	EMPTY	0.0000	0.0000
75	EMPTY	0.0011	0.2232
76	EMPTY	0.0009	0.1774
77	EMPTY	0.0004	0.0759
78	EMPTY	0.0019	0.3456
79	EMPTY	0.0001	0.0175
80	PAN020136	0.0208	0.1944
81	PAN050136	0.0594	0.2816
82	PAN070136	0.0982	0.5941
83	PAN080136	0.0735	1.1004
84	PAN090136	0.0381	0.5232
85	PAN100136	0.1634	2.4828
86	PAN105136	0.0164	0.5139
87	PAN110136	0.0007	0.0188
88	PAN115136	0.0385	0.5758
89	PAN120136	0.0093	0.4599
90	PAN125136	0.0037	0.0813
91	PAN130136	0.3036	10.3572
92	PAN120048	0.3304	4.5726
93	PAN130048	0.0494	0.7350
94	PAN120224	0.0729	0.8080
95	PAN130224	0.0454	0.6073
96	PAN120312	0.0142	0.1710
97	PAN130312	0.0176	0.2525
98	PAB000136	0.0259	0.0639
99	PAB100136	0.0273	0.0712
100	PAB125136	0.0191	0.0508

#	Name	Abs Diff	%Diff
101	PIN000001	0.1720	0.4241
102	PRV000001	0.0025	0.0128
103	PSR000001	0.0399	0.1096
104	PFM000001	0.0382	0.1143
105	PAN000136	0.5388	0.5812
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.8182
108	EMPTY	0.0459	0.9075
109	EMPTY	0.0002	4.0816
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	50.0000
112	VPW000001	0.0045	3.0385
113	VPW000002	0.0425	29.9929
114	VPW000003	0.0068	4.9062
115	VPW000004	0.0098	17.9817
116	VPW000005	0.0105	6.9860
117	VPW000006	0.0160	10.3026
118	IPW000001	0.0247	1.5339
119	IPW000002	0.2070	26.2058
120	IPW000003	1.7844	212.6057
121	IPW000004	0.4688	146.7292
122	IPW000005	0.3554	62.7915
123	IPW000006	0.1462	333.7899
124	EMPTY	0.0003	1.5151
125	EMPTY	0.0011	8.5271
126	EMPTY	0.0004	2.3952
127	EMPTY	0.0002	1.4184
128	IHT000001	0.0070	21.3415
129	IHT000002	0.0182	11.6220
130	IHT000003	0.0377	28.6910
131	IHT000004	0.0035	1.9157
132	IHT000005	0.0015	1.0302
133	IHT000006	0.0041	2.0644
134	IHT000007	0.0339	25.3553
135	IHT000008	0.0064	5.4191
136	IHT000009	0.0070	28.5714
137	IHT000010	0.0164	12.0766
138	IHT000011	0.0063	7.6829
139	IHT000012	0.0171	17.2379
140	IHT000013	0.0185	32.4561
141	IHT000014	0.0081	6.7953
142	IHT000015	0.0113	16.0284
143	IHT000016	0.0143	752.6316
144	IHT000017	0.0060	0.9178
145	IHT000018	0.0369	33.7912
146	IHT000019	0.0074	7.3050
147	IHT000020	0.0300	45.1807
148	IHT000021	0.0975	10.9219
149	IHT000022	0.0040	100.0000
150	IHT000023	0.0286	22.9167
151	IHT000024	0.0035	0.3486
152	IHT000025	0.0118	3.2083
153	IHT000026	0.0002	0.2278
154	IHT000027	0.0122	8.2266
155	IHT000028	0.0051	10.2000

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0097	11.8293
157	IHT000030	0.0025	3.5562
158	IHT000031	0.0314	14.8183
159	IHT000032	0.0311	25.7237
160	IHT000033	0.0085	0.4355
161	IHT000034	0.0023	2.0300
162	IHT000035	0.0041	3.0370
163	IHT000036	0.0124	12.4623

Velocity 1 = 12.8206 (ft/sec) (+/- 3.6064 %)
 Velocity 2 = 12.5990 (ft/sec) (+/- 3.4902 %)
 Pressure drop = 1.4778 (psi)
 Tsat in = 268.2126 (deg F) Tsat out = 266.5051 (deg F)
 Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 650.1865 %)
 Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 956.3964 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.0619	77.9100	77.5241	1.8519e-01	1.9000e+00
1	TRF000002	76.0201	76.6535	76.2439	1.4409e-01	1.9000e+00
2	TFM000001	77.5042	78.5586	78.1409	2.3437e-01	1.9000e+00
3	TIN000001	85.1374	85.7673	85.4693	1.4615e-01	1.9002e+00
4	TRV000001	81.8864	82.6226	82.2944	1.9178e-01	1.9001e+00
5	TSR000001	76.8176	77.4512	77.1893	1.5995e-01	1.9000e+00
6	TAO020136	83.2003	84.1482	83.5841	2.4525e-01	1.9001e+00
7	TAO050136	83.3971	84.0272	83.6242	1.7022e-01	1.9001e+00
8	TAO070136	77.4453	78.2938	77.9501	2.3410e-01	1.9000e+00
9	TAO080136	82.2064	82.9417	82.5929	1.7928e-01	1.9001e+00
10	TAO090136	82.7896	83.8404	83.3824	1.9996e-01	1.9001e+00
11	TAO100136	82.8101	83.6519	83.2602	1.8040e-01	1.9001e+00
12	TAO105136	85.3162	86.3676	85.7369	2.0698e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.1014	1.0731e-01	1.9011e+00
14	TAO115136	82.3261	83.3821	82.9345	2.4203e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8558	1.1186e-01	1.9008e+00
16	TAO125136	84.6421	85.3772	84.9532	1.7493e-01	1.9002e+00
17	TAO130136	82.7953	83.5255	83.1330	1.4475e-01	1.9001e+00
18	EMPTY	224.1039	246.0376	234.7575	4.9249e+00	1.9368e+00
19	TAO130048	84.3356	84.9660	84.6591	1.7341e-01	1.9001e+00
20	TAO120224	80.3260	81.5906	80.9332	2.3957e-01	1.9001e+00
21	EMPTY	-478.9091	-478.5365	-478.6407	1.6900e-01	2.0485e+00
22	TAO120312	82.8876	83.6253	83.2711	1.9237e-01	1.9001e+00
23	TAO130312	83.3131	84.1530	83.7497	1.8312e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5650	1.9521e-01	1.9010e+00
25	TRT070000	83.1507	83.8904	83.6492	1.7459e-01	1.9001e+00
26	TRT100000	84.0143	84.8549	84.4261	1.8719e-01	1.9001e+00
27	TRT120000	83.3478	84.0841	83.7685	1.6187e-01	1.9001e+00
28	TRT125000	86.1442	86.8759	86.5411	1.7677e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9422	1.1899e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9453	1.7494e-01	1.9011e+00
31	TAF050136	84.3028	85.0377	84.7056	1.7275e-01	1.9001e+00
32	TAF070136	83.1998	84.3522	83.7698	2.3590e-01	1.9001e+00
33	TAF080136	82.9141	83.6493	83.2297	1.7608e-01	1.9001e+00
34	TAF090136	82.7183	83.8748	83.2442	2.7779e-01	1.9001e+00
35	TAF100136	83.2353	83.9718	83.5889	1.8015e-01	1.9001e+00
36	TAF105136	83.6323	84.8865	84.3715	2.4068e-01	1.9001e+00
37	TAF110136	81.7940	82.5306	82.2234	1.6706e-01	1.9001e+00
38	TAF115136	84.9052	85.7454	85.2791	1.9334e-01	1.9002e+00
39	TAF120136	84.3899	84.9159	84.6344	1.3675e-01	1.9001e+00
40	TAF125136	83.3549	84.1944	83.7542	1.8366e-01	1.9001e+00
41	TAF130136	83.1184	83.8545	83.5055	1.7457e-01	1.9001e+00
42	TAF120048	82.7764	83.8337	83.3262	2.4551e-01	1.9001e+00
43	TAF130048	83.6066	84.2372	83.9430	1.3941e-01	1.9001e+00
44	TAF120224	83.3920	84.1293	83.7375	1.9947e-01	1.9001e+00
45	TAF130224	83.2387	83.8726	83.4793	1.4124e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5615	2.0044e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6663	1.1534e-01	1.9010e+00
48	TAI130048	83.2675	84.6350	83.9450	3.0667e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8430	1.8379e-01	1.9006e+00
50	TAI130224	82.8222	84.1939	83.6875	2.8974e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2503	1.7532e-01	1.9010e+00
52	TRR130000	83.1870	84.0273	83.5317	2.3054e-01	1.9001e+00
53	TSI000001	45.8274	46.6951	46.2227	1.8427e-01	1.9004e+00
54	TSI000002	62.1923	63.2619	62.7917	2.6790e-01	1.9000e+00
55	TSO000001	46.3782	47.3578	46.7869	2.1820e-01	1.9004e+00
56	TSO000002	70.0287	70.9860	70.4672	2.4179e-01	1.9000e+00
57	TAF020136	76.6713	77.4146	77.0114	1.8821e-01	1.9000e+00
58	TAF120312	84.6096	85.6590	85.1976	2.9653e-01	1.9002e+00
59	TAF130312	82.2912	83.1326	82.6828	1.7774e-01	1.9001e+00
60	EMPTY	0.3369	0.3467	0.3423	1.7784e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3571	1.7115e-03	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3714	1.1714e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3878	2.4344e-03	0.0000e+00
64	EMPTY	0.2930	0.2930	0.2930	0.0000e+00	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3126	6.9053e-04	0.0000e+00
66	EMPTY	0.3271	0.3369	0.3299	2.6396e-03	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3481	2.2603e-03	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3628	2.2603e-03	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3813	1.4797e-03	0.0000e+00
70	EMPTY	0.3955	0.4004	0.3978	2.4583e-03	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4212	2.1635e-03	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4349	1.1714e-03	0.0000e+00
73	EMPTY	0.4541	0.4590	0.4560	2.3941e-03	0.0000e+00
74	EMPTY	0.4688	0.4736	0.4735	6.9053e-04	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4917	2.2603e-03	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5068	1.9730e-03	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5271	1.1714e-03	0.0000e+00
78	EMPTY	0.5469	0.5518	0.5485	2.3365e-03	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5715	9.6655e-04	0.0000e+00
80	PAN020136	4.1622	5.2303	4.5605	2.3543e-01	8.7007e-01
81	PAN050136	8.2896	9.3577	8.7473	2.2015e-01	1.6801e+00
82	PAN070136	7.9021	8.4362	8.1935	1.2587e-01	8.7024e-01
83	PAN080136	1.9675	2.6542	2.3932	1.5421e-01	8.7002e-01
84	PAN090136	2.9713	3.4291	3.2063	1.0206e-01	8.7004e-01
85	PAN100136	2.3058	2.9161	2.6598	1.4522e-01	8.7003e-01
86	PAN105136	1.6241	2.0056	1.7767	8.5820e-02	8.7001e-01
87	PAN110136	1.3988	1.7803	1.5956	6.5558e-02	8.7001e-01
88	PAN115136	3.0773	3.5350	3.3153	1.0065e-01	8.7004e-01
89	PAN120136	0.8014	1.1829	1.0242	1.0089e-01	8.7000e-01
90	PAN125136	1.5276	1.8328	1.6802	9.1189e-02	8.7001e-01
91	PAN130136	1.1765	1.5580	1.3535	9.5565e-02	8.7001e-01
92	PAN120048	2.9730	3.4308	3.1912	1.0341e-01	8.7004e-01
93	PAN130048	2.8076	3.1891	3.0090	9.0876e-02	8.7003e-01
94	PAN120224	4.3041	4.7618	4.5055	8.4086e-02	8.7007e-01
95	PAN130224	2.8352	3.1404	2.9710	8.1983e-02	8.7003e-01
96	PAN120312	3.4823	3.8638	3.6730	1.0707e-01	8.7005e-01
97	PAN130312	2.4924	2.9502	2.7183	9.2431e-02	8.7003e-01
98	PAB000136	40.4536	40.7283	40.5699	5.7910e-02	5.8880e-01
99	PAB100136	39.6809	39.8640	39.7606	4.5127e-02	5.8846e-01
100	PAB125136	39.3693	39.5066	39.4242	4.3378e-02	5.8831e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3168	40.5610	40.4389	7.7988e-02	7.5678e-01
102	PRV000001	19.5752	19.6973	19.6924	2.4164e-02	7.5161e-01
103	PSR000001	38.3711	38.6153	38.5420	6.5249e-02	7.5616e-01
104	PFM000001	25.2324	25.9648	25.5418	1.6429e-01	5.0406e-01
105	PAN000136	38.5427	43.5781	40.9139	1.0118e+00	4.9211e+00
106	PFM000002	24.2697	24.9286	24.6603	1.5640e-01	2.0929e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-5.9766	-4.2090	-5.4363	4.2018e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0047	1.3811e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1325	6.7888e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0948	9.8648e-02	8.1000e-01
114	VPW000003	0.0800	0.2753	0.1542	9.5765e-02	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0936	1.0145e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1972	9.6655e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1397	1.0320e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	1.4932	1.1267e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.9460	1.0460e+00	8.1000e+00
120	IPW000003	1.1513	5.0513	2.5943	1.1693e+00	8.1000e+00
121	IPW000004	0.3000	1.2766	0.7883	1.9730e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.1754	2.6486e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.1707	3.1828e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0194	3.3439e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.9080e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0158	2.7124e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0147	3.1950e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0289	9.0756e-02	4.1000e+00
129	IHT000002	-0.1247	0.2659	0.1527	1.0507e-01	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1314	1.1306e-01	4.1000e+00
131	IHT000004	-0.0400	0.5459	0.1748	9.0412e-02	4.1000e+00
132	IHT000005	0.0753	0.4659	0.1652	1.0595e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2103	1.1133e-01	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1259	9.7935e-02	4.1000e+00
135	IHT000008	0.0400	0.4306	0.1377	1.0625e-01	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0284	9.3043e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1006	1.0470e-01	4.1000e+00
138	IHT000011	-0.1953	0.1953	0.0859	1.0559e-01	4.1000e+00
139	IHT000012	-0.0375	0.1578	0.0641	9.8569e-02	4.1000e+00
140	IHT000013	-0.2047	0.3813	0.0492	1.2001e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1309	9.5357e-02	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0548	7.1136e-02	4.1000e+00
143	IHT000016	-0.0800	0.3106	0.0020	1.0507e-01	4.1000e+00
144	IHT000017	0.3647	1.1459	0.6264	1.9575e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.0272	9.2034e-02	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.0817	1.0654e-01	4.1000e+00
147	IHT000020	-0.0234	0.3672	0.0547	1.0440e-01	4.1000e+00
148	IHT000021	-1.1934	-0.8028	-1.0255	1.3675e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0000	8.8233e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.0936	1.0885e-01	4.1000e+00
151	IHT000024	0.7853	1.1759	0.9963	8.6810e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3639	9.2456e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.1073	7.9017e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1366	9.3710e-02	4.1000e+00
155	IHT000028	-0.0047	0.3859	0.0500	9.6976e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.1055	1.0595e-01	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0781	9.6655e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2197	7.7324e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1366	8.4997e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9480	8.8321e-02	4.1000e+00
161	IHT000034	0.0000	0.1953	0.1055	9.8332e-02	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1194	8.7880e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0917	6.1257e-02	4.1000e+00

Velocity 1 = 12.8207 (ft/sec) (+/- 3.6064 %)
 Velocity 2 = 12.6273 (ft/sec) (+/- 3.4900 %)
 Pressure drop = 1.4873 (psi)
 Tsat in = 268.0977 (deg F) Tsat out = 266.3712 (deg F)
 Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 622.1758 %)
 Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 958.3495 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.2739	77.6980	77.5076	1.5145e-01	1.9000e+00
1	TRF000002	76.0201	76.4424	76.2183	1.4558e-01	1.9000e+00
2	TFM000001	77.6096	78.6640	78.1001	2.0251e-01	1.9000e+00
3	TIN000001	85.1369	85.7680	85.4053	1.6896e-01	1.9002e+00
4	TRV000001	81.7822	82.6222	82.2855	2.0327e-01	1.9001e+00
5	TSR000001	76.9232	77.4512	77.1667	1.5111e-01	1.9000e+00
6	TAO020136	82.9898	84.0433	83.5877	2.2183e-01	1.9001e+00
7	TAO050136	83.2939	83.8174	83.5796	1.4166e-01	1.9001e+00
8	TAO070136	77.5519	78.3997	77.9821	1.9527e-01	1.9000e+00
9	TAO080136	82.2064	82.9402	82.5750	1.6454e-01	1.9001e+00
10	TAO090136	82.8946	83.5256	83.2402	1.6747e-01	1.9001e+00
11	TAO100136	82.9151	83.5464	83.2094	1.3910e-01	1.9001e+00
12	TAO105136	85.3167	86.1575	85.8163	2.1404e-01	1.9002e+00
13	EMPTY	40.0646	40.2940	40.1349	1.0683e-01	1.9011e+00
14	TAO115136	82.4312	83.3821	82.8996	2.1461e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8905	1.1652e-01	1.9008e+00
16	TAO125136	84.6427	85.1675	84.9274	1.1549e-01	1.9002e+00
17	TAO130136	82.7948	83.4205	83.0909	1.2536e-01	1.9001e+00
18	EMPTY	223.7249	243.0654	230.8809	4.6126e+00	1.9356e+00
19	TAO130048	84.4405	84.8607	84.6186	1.3067e-01	1.9001e+00
20	TAO120224	80.3260	81.2748	80.8725	1.9320e-01	1.9001e+00
21	EMPTY	-481.5203	-481.1470	-481.3297	1.8856e-01	2.0501e+00
22	TAO120312	82.8876	83.6247	83.2424	1.9664e-01	1.9001e+00
23	TAO130312	83.3126	84.0481	83.6879	1.8064e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.4999	1.7787e-01	1.9009e+00
25	TRT070000	83.3626	83.8904	83.5817	1.3068e-01	1.9001e+00
26	TRT100000	83.9100	84.8543	84.4044	1.8553e-01	1.9001e+00
27	TRT120000	83.4528	83.9789	83.7299	1.3521e-01	1.9001e+00
28	TRT125000	86.1437	86.7712	86.4788	1.9998e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9364	1.0258e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9476	2.2524e-01	1.9011e+00
31	TAF050136	84.3033	85.0371	84.6646	1.6309e-01	1.9001e+00
32	TAF070136	83.3047	84.2473	83.7770	2.4093e-01	1.9001e+00
33	TAF080136	82.9146	83.5443	83.2360	1.7563e-01	1.9001e+00
34	TAF090136	82.7183	83.6644	83.2421	2.3853e-01	1.9001e+00
35	TAF100136	83.1296	83.9723	83.5575	1.8903e-01	1.9001e+00
36	TAF105136	83.6323	84.7816	84.3119	2.6549e-01	1.9001e+00
37	TAF110136	81.8996	82.4256	82.1679	1.5181e-01	1.9001e+00
38	TAF115136	84.8009	85.6401	85.2396	1.8754e-01	1.9002e+00
39	TAF120136	84.3905	84.9148	84.6094	1.1518e-01	1.9001e+00
40	TAF125136	83.4604	84.0889	83.7281	1.6029e-01	1.9001e+00
41	TAF130136	83.1184	83.7496	83.4448	1.5958e-01	1.9001e+00
42	TAF120048	82.7764	83.7288	83.3160	2.0400e-01	1.9001e+00
43	TAF130048	83.6066	84.2378	83.9091	1.3689e-01	1.9001e+00
44	TAF120224	83.3920	84.1287	83.6951	1.8802e-01	1.9001e+00
45	TAF130224	83.2393	83.6602	83.4497	1.0745e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5087	2.0545e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.7017	1.0499e-01	1.9010e+00
48	TAI130048	83.2670	84.7404	83.9138	2.9520e-01	1.9001e+00
49	EMPTY	30.5629	31.0376	30.8439	1.7248e-01	1.9006e+00
50	TAI130224	83.1388	84.2988	83.6019	2.8219e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2602	1.7557e-01	1.9010e+00
52	TRR130000	82.9776	83.8175	83.4552	2.0339e-01	1.9001e+00
53	TSI000001	45.9363	46.5863	46.2352	1.5247e-01	1.9004e+00
54	TSI000002	62.0859	62.9411	62.5161	2.1092e-01	1.9000e+00
55	TSO000001	46.0507	46.9219	46.5684	1.9305e-01	1.9004e+00
56	TSO000002	69.7098	70.5608	70.1006	2.0410e-01	1.9000e+00
57	TAF020136	76.6713	77.3091	76.9859	1.9014e-01	1.9000e+00
58	TAF120312	84.6102	85.5542	85.0428	2.7945e-01	1.9002e+00
59	TAF130312	82.2917	83.0271	82.6607	1.7034e-01	1.9001e+00
60	EMPTY	0.3369	0.3467	0.3421	2.0926e-03	0.0000e+00
61	EMPTY	0.3516	0.3564	0.3563	6.9754e-04	0.0000e+00
62	EMPTY	0.3662	0.3711	0.3707	1.3508e-03	0.0000e+00
63	EMPTY	0.3809	0.3906	0.3860	1.5467e-03	0.0000e+00
64	EMPTY	0.2881	0.2930	0.2926	1.3508e-03	0.0000e+00
65	EMPTY	0.3125	0.3223	0.3128	1.5467e-03	0.0000e+00
66	EMPTY	0.3223	0.3320	0.3284	2.3953e-03	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3475	1.8234e-03	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3616	1.1827e-03	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3814	1.4934e-03	0.0000e+00
70	EMPTY	0.3955	0.4102	0.3970	2.8548e-03	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4208	1.9103e-03	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4348	9.7615e-04	0.0000e+00
73	EMPTY	0.4541	0.4590	0.4551	1.9883e-03	0.0000e+00
74	EMPTY	0.4688	0.4785	0.4734	1.3951e-03	0.0000e+00
75	EMPTY	0.4834	0.4932	0.4897	2.4414e-03	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5055	2.4621e-03	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5258	2.2737e-03	0.0000e+00
78	EMPTY	0.5420	0.5518	0.5474	1.7954e-03	0.0000e+00
79	EMPTY	0.5664	0.5762	0.5715	1.3951e-03	0.0000e+00
80	PAN020136	4.2385	5.3829	4.7819	2.6320e-01	8.7008e-01
81	PAN050136	8.1370	9.3577	8.6383	2.4326e-01	1.6801e+00
82	PAN070136	7.9784	8.5125	8.2384	1.2055e-01	8.7024e-01
83	PAN080136	2.2727	2.6542	2.4751	9.0206e-02	8.7002e-01
84	PAN090136	2.9713	3.4291	3.1706	1.0190e-01	8.7004e-01
85	PAN100136	2.4584	2.8398	2.6732	9.5588e-02	8.7003e-01
86	PAN105136	1.6241	1.9293	1.7892	8.1440e-02	8.7001e-01
87	PAN110136	1.4751	1.7040	1.6090	6.7039e-02	8.7001e-01
88	PAN115136	3.0773	3.4587	3.2548	8.1501e-02	8.7004e-01
89	PAN120136	0.8777	1.1829	1.0739	6.9647e-02	8.7000e-01
90	PAN125136	1.5276	1.8328	1.6584	7.6294e-02	8.7001e-01
91	PAN130136	1.1002	1.4817	1.3338	7.5347e-02	8.7001e-01
92	PAN120048	2.8967	3.3545	3.2003	9.2776e-02	8.7004e-01
93	PAN130048	2.9602	3.2654	3.0770	7.6456e-02	8.7003e-01
94	PAN120224	4.3041	4.6855	4.5361	9.2080e-02	8.7007e-01
95	PAN130224	2.8352	3.1404	2.9629	8.5849e-02	8.7003e-01
96	PAN120312	3.4823	3.8638	3.6536	8.7448e-02	8.7005e-01
97	PAN130312	2.4924	2.8739	2.7089	8.8573e-02	8.7003e-01
98	PAB000136	40.3621	40.5910	40.4919	6.0084e-02	5.8877e-01
99	PAB100136	39.5894	39.7725	39.6716	4.6701e-02	5.8842e-01
100	PAB125136	39.2777	39.4150	39.3356	4.1553e-02	5.8828e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.1948	40.5610	40.3691	9.6505e-02	7.5676e-01
102	PRV0000001	19.5752	19.6973	19.6051	5.3037e-02	7.5160e-01
103	PSR0000001	38.3711	38.4932	38.4757	4.3158e-02	7.5614e-01
104	PFM0000001	25.1408	25.8732	25.5425	1.7413e-01	5.0406e-01
105	PAN000136	39.4583	43.5781	41.1772	9.5534e-01	4.9211e+00
106	PFM0000002	24.3204	25.1145	24.7721	1.6599e-01	2.0937e-01
107	EMPTY	0.0000	0.0098	0.0049	9.9670e-04	0.0000e+00
108	EMPTY	-5.8398	-3.9160	-5.0962	5.9181e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0047	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9754e-04	0.0000e+00
112	VPW0000001	-0.0706	0.3200	0.1366	8.3705e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.1192	9.9792e-02	8.1000e-01
114	VPW0000003	0.0800	0.2753	0.1677	9.8153e-02	8.1000e-01
115	VPW0000004	-0.2306	0.3553	0.0643	1.1362e-01	8.1000e-01
116	VPW0000005	-0.1153	0.2753	0.1597	1.1219e-01	8.1000e-01
117	VPW0000006	-0.0400	0.3506	0.1673	8.3705e-02	8.1000e-01
118	IPW0000001	-1.5525	2.3522	1.5553	1.0482e+00	8.1000e+00
119	IPW0000002	-1.5516	2.3509	0.9571	9.7563e-01	8.1000e+00
120	IPW0000003	1.1513	5.0513	2.4645	1.2196e+00	8.1000e+00
121	IPW0000004	0.3000	1.2766	0.7783	2.1119e-01	2.0000e+00
122	IPW0000005	-0.0883	0.8882	0.2007	2.6213e-01	2.0000e+00
123	IPW0000006	-0.2883	0.6883	0.2100	2.3353e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0205	2.9867e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0132	3.3362e-03	0.0000e+00
126	EMPTY	-0.0244	0.0000	-0.0161	4.5896e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0143	3.0572e-03	0.0000e+00
128	IHT0000001	-0.2094	0.1813	0.0298	9.1482e-02	4.1000e+00
129	IHT0000002	0.0706	0.2659	0.1583	9.8153e-02	4.1000e+00
130	IHT0000003	0.0259	0.4166	0.1256	1.1362e-01	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1513	9.3412e-02	4.1000e+00
132	IHT0000005	0.0753	0.4659	0.1510	1.0409e-01	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.1985	9.3412e-02	4.1000e+00
134	IHT0000007	-0.1553	0.4306	0.1117	1.1059e-01	4.1000e+00
135	IHT0000008	0.0400	0.2353	0.1157	9.6150e-02	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0394	9.4962e-02	4.1000e+00
137	IHT0000010	-0.0400	0.3506	0.1194	1.0299e-01	4.1000e+00
138	IHT0000011	0.0000	0.3906	0.0837	1.0548e-01	4.1000e+00
139	IHT0000012	-0.2328	0.3531	0.0701	1.2646e-01	4.1000e+00
140	IHT0000013	-0.0094	0.3813	0.0424	9.5812e-02	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1233	7.9328e-02	4.1000e+00
142	IHT0000015	-0.1600	0.2306	0.0712	8.6187e-02	4.1000e+00
143	IHT0000016	-0.0800	0.3106	0.0077	1.0594e-01	4.1000e+00
144	IHT0000017	0.3647	0.9506	0.5999	1.6905e-01	4.1000e+00
145	IHT0000018	-0.0353	0.1600	0.0364	9.5132e-02	4.1000e+00
146	IHT0000019	-0.1247	0.0706	-0.0888	7.6412e-02	4.1000e+00
147	IHT0000020	-0.0234	0.1719	0.0403	9.2540e-02	4.1000e+00
148	IHT0000021	-1.1934	-0.8028	-1.0420	1.2774e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	0.0159	6.7148e-02	4.1000e+00
150	IHT0000023	-0.2306	0.1600	0.1122	9.3759e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	0.9886	8.8783e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3720	9.2715e-02	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.0760	4.8662e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1361	7.5986e-02	4.1000e+00
155	IHT0000028	-0.0047	0.1906	0.0631	9.3931e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.1953	0.1953	0.1076	1.0594e-01	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0996	9.8648e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2592	1.0268e-01	4.1000e+00
159	IHT000032	-0.0353	0.5506	0.1799	1.2761e-01	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9235	9.5812e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1196	1.1146e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1351	8.9148e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.1119	1.0044e-01	4.1000e+00

Velocity 1 = 0.000100 (ft/sec)
 Velocity 2 = 0.028300 (ft/sec)
 Pressure Drop = 0.009500 (psi)
 Tsat in = 0.114899 (deg F) Tsat out = 0.133911 (deg F)
 Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0165	0.0213
1	TRF000002	0.0256	0.0336
2	TFM000001	0.0408	0.0522
3	TIN000001	0.0640	0.0749
4	TRV000001	0.0089	0.0108
5	TSR000001	0.0226	0.0293
6	TAO020136	0.0036	0.0043
7	TAO050136	0.0446	0.0533
8	TAO070136	0.0320	0.0410
9	TAO080136	0.0179	0.0217
10	TAO090136	0.1422	0.1705
11	TAO100136	0.0508	0.0610
12	TAO105136	0.0794	0.0926
13	EMPTY	0.0335	0.0835
14	TAO115136	0.0349	0.0421
15	EMPTY	0.0347	0.0995
16	TAO125136	0.0258	0.0304
17	TAO130136	0.0421	0.0506
18	EMPTY	3.8766	1.6513
19	TAO130048	0.0405	0.0478
20	TAO120224	0.0607	0.0750
21	EMPTY	2.6890	0.5618
22	TAO120312	0.0287	0.0345
23	TAO130312	0.0618	0.0738
24	EMPTY	0.0651	0.1733
25	TRT070000	0.0675	0.0807
26	TRT100000	0.0217	0.0257
27	TRT120000	0.0386	0.0461
28	TRT125000	0.0623	0.0720
29	EMPTY	0.0058	0.0153
30	EMPTY	0.0023	0.0058
31	TAF050136	0.0410	0.0484
32	TAF070136	0.0072	0.0086
33	TAF080136	0.0063	0.0076
34	TAF090136	0.0021	0.0025
35	TAF100136	0.0314	0.0376
36	TAF105136	0.0596	0.0706
37	TAF110136	0.0555	0.0675
38	TAF115136	0.0395	0.0463
39	TAF120136	0.0250	0.0295
40	TAF125136	0.0261	0.0312
41	TAF130136	0.0607	0.0727
42	TAF120048	0.0102	0.0122
43	TAF130048	0.0339	0.0404
44	TAF120224	0.0424	0.0506
45	TAF130224	0.0296	0.0355

#	Name	Abs Diff	%Diff
46	EMPTY	0.0528	0.1444
47	EMPTY	0.0354	0.0940
48	TAI130048	0.0312	0.0372
49	EMPTY	0.0009	0.0029
50	TAI130224	0.0856	0.1023
51	EMPTY	0.0099	0.0259
52	TRR130000	0.0765	0.0916
53	TSI000001	0.0125	0.0270
54	TSI000002	0.2756	0.4389
55	TSO000001	0.2185	0.4670
56	TSO000002	0.3666	0.5202
57	TAF020136	0.0255	0.0331
58	TAF120312	0.1548	0.1817
59	TAF130312	0.0221	0.0267
60	EMPTY	0.0002	0.0584
61	EMPTY	0.0008	0.2240
62	EMPTY	0.0007	0.1885
63	EMPTY	0.0018	0.4642
64	EMPTY	0.0004	0.1365
65	EMPTY	0.0002	0.0640
66	EMPTY	0.0015	0.4547
67	EMPTY	0.0006	0.1724
68	EMPTY	0.0012	0.3308
69	EMPTY	0.0001	0.0262
70	EMPTY	0.0008	0.2011
71	EMPTY	0.0004	0.0950
72	EMPTY	0.0001	0.0230
73	EMPTY	0.0009	0.1974
74	EMPTY	0.0001	0.0211
75	EMPTY	0.0020	0.4068
76	EMPTY	0.0013	0.2565
77	EMPTY	0.0013	0.2466
78	EMPTY	0.0011	0.2005
79	EMPTY	0.0000	0.0000
80	PAN020136	0.2214	4.8547
81	PAN050136	0.1090	1.2461
82	PAN070136	0.0449	0.5480
83	PAN080136	0.0819	3.4222
84	PAN090136	0.0357	1.1134
85	PAN100136	0.0134	0.5038
86	PAN105136	0.0125	0.7035
87	PAN110136	0.0134	0.8398
88	PAN115136	0.0605	1.8249
89	PAN120136	0.0497	4.8526
90	PAN125136	0.0218	1.2975
91	PAN130136	0.0197	1.4555
92	PAN120048	0.0091	0.2852
93	PAN130048	0.0680	2.2599
94	PAN120224	0.0306	0.6792
95	PAN130224	0.0081	0.2726
96	PAN120312	0.0194	0.5282
97	PAN130312	0.0094	0.3458
98	PAB000136	0.0780	0.1923
99	PAB100136	0.0890	0.2238
100	PAB125136	0.0886	0.2247

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0698	0.1726
102	PRV000001	0.0873	0.4433
103	PSR000001	0.0663	0.1720
104	PFM000001	0.0007	0.0027
105	PAN000136	0.2633	0.6436
106	PFM000002	0.1118	0.4534
107	EMPTY	0.0000	0.0000
108	EMPTY	0.3401	6.2561
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0041	3.0943
113	VPW000002	0.0244	25.7384
114	VPW000003	0.0135	8.7549
115	VPW000004	0.0293	31.3034
116	VPW000005	0.0375	19.0162
117	VPW000006	0.0276	19.7566
118	IPW000001	0.0621	4.1589
119	IPW000002	0.0111	1.1734
120	IPW000003	0.1298	5.0033
121	IPW000004	0.0100	1.2686
122	IPW000005	0.0253	14.4242
123	IPW000006	0.0393	23.0228
124	EMPTY	0.0011	5.6701
125	EMPTY	0.0006	4.3478
126	EMPTY	0.0003	1.8987
127	EMPTY	0.0004	2.7211
128	IHT000001	0.0009	3.1142
129	IHT000002	0.0056	3.6673
130	IHT000003	0.0058	4.4140
131	IHT000004	0.0235	13.4439
132	IHT000005	0.0142	8.5956
133	IHT000006	0.0118	5.6110
134	IHT000007	0.0142	11.2788
135	IHT000008	0.0220	15.9768
136	IHT000009	0.0110	38.7324
137	IHT000010	0.0188	18.6879
138	IHT000011	0.0022	2.5611
139	IHT000012	0.0060	9.3604
140	IHT000013	0.0068	13.8211
141	IHT000014	0.0076	5.8060
142	IHT000015	0.0164	29.9270
143	IHT000016	0.0057	285.0000
144	IHT000017	0.0265	4.2305
145	IHT000018	0.0092	33.8235
146	IHT000019	0.0071	8.6903
147	IHT000020	0.0144	26.3254
148	IHT000021	0.0165	1.6090
149	IHT000022	0.0159	100.0000
150	IHT000023	0.0186	19.8718
151	IHT000024	0.0077	0.7729
152	IHT000025	0.0081	2.2259
153	IHT000026	0.0313	29.1706
154	IHT000027	0.0005	0.3660
155	IHT000028	0.0131	26.2000

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0021	1.9905
157	IHT000030	0.0215	27.5288
158	IHT000031	0.0395	17.9791
159	IHT000032	0.0433	31.6984
160	IHT000033	0.0245	1.2577
161	IHT000034	0.0141	13.3649
162	IHT000035	0.0357	29.8995
163	IHT000036	0.0202	22.0284

Velocity 1 = 10.8515 (ft/sec) (+/- 3.7315 %)
 Velocity 2 = 10.7507 (ft/sec) (+/- 3.5072 %)
 Pressure drop = -0.3195 (psi)
 Tsat in = 268.0858 (deg F) Tsat out = 269.9478 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 968.4625 %)
 Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 1014.0577 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	77.2739	77.9100	77.5708	1.8173e-01	1.9000e+00
1	TRF0000002	76.0201	76.4424	76.2819	1.2480e-01	1.9000e+00
2	TFM0000001	77.6096	78.5586	78.0778	1.7980e-01	1.9000e+00
3	TIN0000001	85.1369	85.6631	85.4693	1.6086e-01	1.9002e+00
4	TRV0000001	81.8868	82.7272	82.2946	1.7959e-01	1.9001e+00
5	TSR0000001	76.9232	77.5562	77.2359	1.6511e-01	1.9000e+00
6	TAO020136	83.0948	84.0433	83.6304	2.3886e-01	1.9001e+00
7	TAO050136	83.2922	83.8174	83.5742	1.3496e-01	1.9001e+00
8	TAO070136	77.5513	78.2936	78.0136	2.0514e-01	1.9000e+00
9	TAO080136	82.2064	82.8373	82.5765	1.6189e-01	1.9001e+00
10	TAO090136	82.9996	83.8404	83.3531	1.8719e-01	1.9001e+00
11	TAO100136	82.9151	83.4418	83.2477	1.4318e-01	1.9001e+00
12	TAO105136	85.3162	86.0526	85.7537	2.1060e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.1427	1.1916e-01	1.9011e+00
14	TAO115136	82.4312	83.3821	82.9301	2.0026e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8466	1.0871e-01	1.9008e+00
16	TAO125136	84.6421	85.2718	84.9323	1.6240e-01	1.9002e+00
17	TAO130136	82.6898	83.3187	83.0756	1.6009e-01	1.9001e+00
18	EMPTY	229.3957	246.0376	238.0466	4.6253e+00	1.9378e+00
19	TAO130048	84.3356	84.9660	84.5923	1.3939e-01	1.9001e+00
20	TAO120224	80.4312	81.3805	80.8827	1.8939e-01	1.9001e+00
21	EMPTY	-491.2660	-490.8898	-491.0401	1.8620e-01	2.0560e+00
22	TAO120312	82.8876	83.6247	83.2922	1.4167e-01	1.9001e+00
23	TAO130312	83.3126	84.0487	83.6995	1.9271e-01	1.9001e+00
24	EMPTY	37.0772	37.7675	37.5466	1.9141e-01	1.9009e+00
25	TRT070000	83.1507	83.9953	83.6319	1.5981e-01	1.9001e+00
26	TRT100000	84.0144	84.6452	84.3507	1.6977e-01	1.9001e+00
27	TRT120000	83.4528	83.9794	83.7392	1.5332e-01	1.9001e+00
28	TRT125000	86.1437	86.8759	86.5247	1.8138e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9468	1.1652e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9545	1.9799e-01	1.9011e+00
31	TAF050136	84.3028	85.1401	84.6682	1.6442e-01	1.9001e+00
32	TAF070136	83.3047	84.2473	83.7659	1.9949e-01	1.9001e+00
33	TAF080136	83.0196	83.6481	83.2552	1.4614e-01	1.9001e+00
34	TAF090136	82.8233	83.7699	83.2191	2.5802e-01	1.9001e+00
35	TAF100136	83.2351	83.9723	83.5847	1.8353e-01	1.9001e+00
36	TAF105136	83.8404	84.7822	84.3218	2.5158e-01	1.9001e+00
37	TAF110136	81.8996	82.4261	82.1943	1.6858e-01	1.9001e+00
38	TAF115136	84.8009	85.7454	85.2498	1.9093e-01	1.9002e+00
39	TAF120136	84.3905	85.0207	84.6597	1.3114e-01	1.9001e+00
40	TAF125136	83.2513	83.9859	83.7545	1.5431e-01	1.9001e+00
41	TAF130136	83.2234	83.7501	83.4762	1.4885e-01	1.9001e+00
42	TAF120048	82.8814	83.8337	83.2962	2.1491e-01	1.9001e+00
43	TAF130048	83.6060	84.1323	83.9135	1.3749e-01	1.9001e+00
44	TAF120224	83.3920	84.1287	83.7122	1.7518e-01	1.9001e+00
45	TAF130224	83.1324	83.6608	83.5002	1.2464e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5200	1.9789e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.7031	1.0433e-01	1.9010e+00
48	TAI130048	83.3720	84.4252	83.9576	3.2738e-01	1.9001e+00
49	EMPTY	30.5629	31.0376	30.8145	1.6198e-01	1.9006e+00
50	TAI130224	83.1382	84.1939	83.7169	2.7148e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2917	1.7402e-01	1.9010e+00
52	TRR130000	82.9783	84.1322	83.4899	2.0522e-01	1.9001e+00
53	TSI000001	45.8285	46.6957	46.3268	1.8707e-01	1.9004e+00
54	TSI000002	61.8732	62.8347	62.3431	2.4905e-01	1.9000e+00
55	TSO000001	46.2683	47.0300	46.6428	1.8019e-01	1.9004e+00
56	TSO000002	69.7098	70.7739	70.2971	2.4150e-01	1.9000e+00
57	TAF020136	76.6713	77.4152	77.0282	2.0897e-01	1.9000e+00
58	TAF120312	84.6103	85.6590	85.1098	2.5010e-01	1.9002e+00
59	TAF130312	82.2917	83.0271	82.6662	1.7913e-01	1.9001e+00
60	EMPTY	0.3369	0.3467	0.3412	1.8821e-03	0.0000e+00
61	EMPTY	0.3516	0.3564	0.3561	1.3381e-03	0.0000e+00
62	EMPTY	0.3662	0.3711	0.3702	1.8950e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3858	6.9053e-04	0.0000e+00
64	EMPTY	0.2881	0.2930	0.2923	1.7115e-03	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3127	9.6655e-04	0.0000e+00
66	EMPTY	0.3271	0.3320	0.3288	2.3365e-03	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3472	1.4797e-03	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3618	1.4797e-03	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3810	6.9053e-04	0.0000e+00
70	EMPTY	0.3906	0.4004	0.3958	1.5314e-03	0.0000e+00
71	EMPTY	0.4150	0.4248	0.4200	1.2041e-03	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4347	6.9053e-04	0.0000e+00
73	EMPTY	0.4541	0.4590	0.4545	1.3381e-03	0.0000e+00
74	EMPTY	0.4688	0.4736	0.4733	1.1714e-03	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4896	2.1635e-03	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5046	2.3365e-03	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5268	1.6028e-03	0.0000e+00
78	EMPTY	0.5420	0.5518	0.5472	1.5314e-03	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5715	9.6655e-04	0.0000e+00
80	PAN020136	-1.7887	-0.5680	-1.2882	2.5382e-01	8.7001e-01
81	PAN050136	-3.4597	-2.3916	-3.0416	2.2823e-01	1.6800e+00
82	PAN070136	-0.4902	0.1201	-0.1988	1.4840e-01	8.7000e-01
83	PAN080136	-1.6183	-1.2368	-1.4977	9.3872e-02	8.7001e-01
84	PAN090136	-0.9197	-0.5382	-0.6877	1.0103e-01	8.7000e-01
85	PAN100136	-1.2800	-0.8223	-0.9703	9.3007e-02	8.7000e-01
86	PAN105136	-0.5884	-0.2069	-0.3946	8.4719e-02	8.7000e-01
87	PAN110136	-0.5085	-0.2797	-0.4109	7.2362e-02	8.7000e-01
88	PAN115136	0.7885	1.2462	1.0112	1.0206e-01	8.7000e-01
89	PAN120136	-0.9534	-0.7245	-0.8359	7.5841e-02	8.7000e-01
90	PAN125136	-0.3798	0.0017	-0.1432	7.7453e-02	8.7000e-01
91	PAN130136	-0.7308	-0.5020	-0.5813	6.1578e-02	8.7000e-01
92	PAN120048	-1.1469	-0.6891	-0.8905	1.1613e-01	8.7000e-01
93	PAN130048	-1.0071	-0.5493	-0.8057	1.0196e-01	8.7000e-01
94	PAN120224	0.1079	0.4894	0.3017	8.7479e-02	8.7000e-01
95	PAN130224	-1.0558	-0.5217	-0.8574	1.0679e-01	8.7000e-01
96	PAN120312	-0.5613	-0.1798	-0.3690	8.7519e-02	8.7000e-01
97	PAN130312	-1.2460	-0.7882	-1.0644	9.4879e-02	8.7000e-01
98	PAB000136	40.1790	40.6825	40.4838	1.0809e-01	5.8876e-01
99	PAB100136	40.8253	41.2373	41.0423	9.8227e-02	5.8901e-01
100	PAB125136	40.8799	41.2461	41.0721	1.0173e-01	5.8902e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.1948	40.8051	40.5146	1.3256e-01	7.5681e-01
102	PRV0000001	19.6973	19.9414	19.8267	3.8286e-02	7.5164e-01
103	PSR0000001	40.3242	40.6905	40.5269	1.1196e-01	7.5681e-01
104	PFM0000001	17.9997	18.6406	18.2506	1.3941e-01	5.0208e-01
105	PAN000136	-11.8113	-5.8604	-8.8450	1.3021e+00	4.9200e+00
106	PFM0000002	17.7484	18.1032	17.9100	9.0637e-02	2.0495e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-5.9033	-3.9160	-5.2572	5.3897e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0037	2.1065e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	-0.0706	0.3200	0.1325	8.7880e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.0948	8.1347e-02	8.1000e-01
114	VPW0000003	0.0800	0.4706	0.1581	1.1161e-01	8.1000e-01
115	VPW0000004	-0.2306	0.3553	0.0467	1.1897e-01	8.1000e-01
116	VPW0000005	-0.1153	0.2753	0.1230	1.0654e-01	8.1000e-01
117	VPW0000006	-0.0400	0.5459	0.1553	1.0440e-01	8.1000e-01
118	IPW0000001	0.3998	2.3522	1.3370	9.8529e-01	8.1000e+00
119	IPW0000002	-1.5516	2.3509	0.7899	1.1826e+00	8.1000e+00
120	IPW0000003	-0.7987	3.1013	1.1903	1.0782e+00	8.1000e+00
121	IPW0000004	-0.1883	0.7883	0.3391	2.3839e-01	2.0000e+00
122	IPW0000005	-0.0883	0.8882	0.4097	2.6995e-01	2.0000e+00
123	IPW0000006	-0.2883	0.6883	0.0633	2.6174e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0206	3.0067e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0134	2.9280e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0173	3.1521e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0132	3.1583e-03	0.0000e+00
128	IHT0000001	-0.2094	0.1813	0.0211	8.5454e-02	4.1000e+00
129	IHT0000002	-0.1247	0.2659	0.1409	1.0259e-01	4.1000e+00
130	IHT0000003	0.0259	0.2212	0.1041	9.6655e-02	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1553	8.8233e-02	4.1000e+00
132	IHT0000005	0.0753	0.2706	0.1456	9.4702e-02	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.1712	9.1354e-02	4.1000e+00
134	IHT0000007	-0.1553	0.2353	0.1220	1.0507e-01	4.1000e+00
135	IHT0000008	0.0400	0.2353	0.1142	9.5765e-02	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0089	1.0885e-01	4.1000e+00
137	IHT0000010	-0.0400	0.3506	0.1163	9.6655e-02	4.1000e+00
138	IHT0000011	0.0000	0.1953	0.0703	9.4702e-02	4.1000e+00
139	IHT0000012	-0.2328	0.1578	0.0680	1.0595e-01	4.1000e+00
140	IHT0000013	-0.2047	0.1859	0.0336	9.0756e-02	4.1000e+00
141	IHT0000014	-0.0800	0.5059	0.1348	9.0412e-02	4.1000e+00
142	IHT0000015	-0.1600	0.2306	0.0587	7.5283e-02	4.1000e+00
143	IHT0000016	-0.0800	0.1153	-0.0058	9.5765e-02	4.1000e+00
144	IHT0000017	0.1694	1.1459	0.6303	2.4247e-01	4.1000e+00
145	IHT0000018	-0.0353	0.1600	0.1131	8.4262e-02	4.1000e+00
146	IHT0000019	-0.3200	0.0706	-0.0856	8.8233e-02	4.1000e+00
147	IHT0000020	-0.0234	0.1719	0.0469	9.4702e-02	4.1000e+00
148	IHT0000021	-1.3888	-0.8028	-1.0528	1.5803e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	0.0000	5.5804e-02	4.1000e+00
150	IHT0000023	-0.0353	0.1600	0.1092	8.6541e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	1.0002	9.0412e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3756	7.7324e-02	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.0761	6.2265e-02	4.1000e+00
154	IHT0000027	-0.0353	0.1600	0.1366	6.4113e-02	4.1000e+00
155	IHT0000028	-0.2000	0.1906	0.0383	9.0756e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.0742	9.5765e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0625	9.2034e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2158	9.0412e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1366	8.4997e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9714	8.3612e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.0977	1.0625e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1389	9.9902e-02	4.1000e+00
163	IHT000036	0.0800	0.2753	0.0917	4.6855e-02	4.1000e+00

Velocity 1 = 10.8553 (ft/sec) (+/- 3.7312 %)

Velocity 2 = 10.7472 (ft/sec) (+/- 3.5073 %)

Pressure drop = -0.3146 (psi)

Tsats in = 268.1501 (deg F) Tsats out = 268.9997 (deg F)

Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 635.6677 %)

Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 849.4842 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	A	SD	Uncert
0	TRF0000001	77.2739	77.9100	77.6115	1.7266e-01	1.9000e+00
1	TRF0000002	76.0201	76.6535	76.3131	1.3503e-01	1.9000e+00
2	TFM0000001	77.7144	78.5592	78.1219	1.9620e-01	1.9000e+00
3	TIN0000001	85.0320	85.9780	85.4954	1.8816e-01	1.9002e+00
4	TRV0000001	81.9915	82.6231	82.3031	1.6476e-01	1.9001e+00
5	TSR0000001	76.9232	77.5572	77.2789	1.8748e-01	1.9000e+00
6	TAO020136	83.0948	84.1487	83.7037	1.8538e-01	1.9001e+00
7	TAO050136	83.2922	84.0277	83.6143	1.5957e-01	1.9001e+00
8	TAO070136	77.4458	78.3997	78.0207	2.1953e-01	1.9000e+00
9	TAO080136	82.1028	82.9423	82.5587	1.7220e-01	1.9001e+00
10	TAO090136	82.8951	83.7360	83.3390	2.0384e-01	1.9001e+00
11	TAO100136	82.9156	83.6513	83.2738	1.7301e-01	1.9001e+00
12	TAO105136	85.4215	86.7871	85.8162	2.7094e-01	1.9002e+00
13	EMPTY	40.0646	40.2940	40.1396	1.0869e-01	1.9011e+00
14	TAO115136	82.4312	83.2771	82.9077	2.1464e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8057	8.1564e-02	1.9008e+00
16	TAO125136	84.6421	85.2728	84.9405	1.7465e-01	1.9002e+00
17	TAO130136	82.6898	83.4237	83.1008	1.7192e-01	1.9001e+00
18	EMPTY	229.5842	243.4374	235.6540	3.1698e+00	1.9371e+00
19	TAO130048	84.3356	84.8616	84.6105	1.3864e-01	1.9001e+00
20	TAO120224	80.4317	81.2750	80.9113	1.8767e-01	1.9001e+00
21	EMPTY	-493.5256	-493.1487	-493.4793	1.2481e-01	2.0575e+00
22	TAO120312	82.9926	83.7302	83.2983	1.8141e-01	1.9001e+00
23	TAO130312	83.3131	84.0481	83.7139	1.6427e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5562	1.8088e-01	1.9009e+00
25	TRT070000	83.2556	84.1007	83.6632	1.7096e-01	1.9001e+00
26	TRT100000	84.0149	84.7501	84.3919	1.6728e-01	1.9001e+00
27	TRT120000	83.3478	84.0843	83.7515	1.5826e-01	1.9001e+00
28	TRT125000	86.0390	86.9811	86.5349	1.9991e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9411	1.2881e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9429	1.9930e-01	1.9011e+00
31	TAF050136	84.1979	85.0371	84.6693	1.7556e-01	1.9001e+00
32	TAF070136	83.3053	84.1439	83.7735	2.1807e-01	1.9001e+00
33	TAF080136	82.9146	83.5443	83.2241	1.5932e-01	1.9001e+00
34	TAF090136	82.6135	83.7699	83.2723	2.5373e-01	1.9001e+00
35	TAF100136	83.2353	83.9722	83.6219	1.6977e-01	1.9001e+00
36	TAF105136	83.8409	84.8870	84.3723	2.5315e-01	1.9001e+00
37	TAF110136	81.8996	82.7407	82.1898	1.6274e-01	1.9001e+00
38	TAF115136	84.8003	85.6406	85.3297	2.0659e-01	1.9002e+00
39	TAF120136	84.2861	84.9164	84.6312	1.6451e-01	1.9001e+00
40	TAF125136	83.3554	84.0908	83.7714	1.6989e-01	1.9001e+00
41	TAF130136	83.1180	83.8550	83.4706	1.5864e-01	1.9001e+00
42	TAF120048	82.7764	83.7288	83.3109	2.3598e-01	1.9001e+00
43	TAF130048	83.5011	84.2377	83.8919	1.5931e-01	1.9001e+00
44	TAF120224	83.1821	84.0238	83.6694	1.9176e-01	1.9001e+00
45	TAF130224	83.2379	84.0838	83.5140	1.5508e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.6168	2.1542e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6689	1.1501e-01	1.9010e+00
48	TAI130048	83.2675	84.6350	83.9395	3.1548e-01	1.9001e+00
49	EMPTY	30.5629	31.0376	30.8487	1.6769e-01	1.9006e+00
50	TAI130224	83.0338	84.2993	83.6361	3.0823e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2836	1.7261e-01	1.9010e+00
52	TRR130000	82.8721	83.8182	83.4855	2.3320e-01	1.9001e+00
53	TSI000001	46.0446	46.6951	46.3061	1.5790e-01	1.9004e+00
54	TSI000002	61.7658	62.9420	62.3244	2.8136e-01	1.9000e+00
55	TSO000001	46.2677	47.0306	46.7059	2.2159e-01	1.9004e+00
56	TSO000002	69.9226	70.7734	70.3047	1.9773e-01	1.9000e+00
57	TAF020136	76.5658	77.5206	77.0505	1.7991e-01	1.9000e+00
58	TAF120312	84.7156	85.5549	85.1286	2.3568e-01	1.9002e+00
59	TAF130312	82.2917	83.0281	82.6911	1.7688e-01	1.9001e+00
60	EMPTY	0.3369	0.3418	0.3412	1.6172e-03	0.0000e+00
61	EMPTY	0.3516	0.3564	0.3563	6.9754e-04	0.0000e+00
62	EMPTY	0.3662	0.3711	0.3695	2.3135e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3858	6.9754e-04	0.0000e+00
64	EMPTY	0.2881	0.3027	0.2921	2.5748e-03	0.0000e+00
65	EMPTY	0.3076	0.3125	0.3124	6.9754e-04	0.0000e+00
66	EMPTY	0.3271	0.3320	0.3274	1.1827e-03	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3469	9.7615e-04	0.0000e+00
68	EMPTY	0.3564	0.3613	0.3612	6.9754e-04	0.0000e+00
69	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
70	EMPTY	0.3955	0.4004	0.3956	6.9754e-04	0.0000e+00
71	EMPTY	0.4199	0.4199	0.4199	0.0000e+00	0.0000e+00
72	EMPTY	0.4346	0.4346	0.4346	0.0000e+00	0.0000e+00
73	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
74	EMPTY	0.4688	0.4736	0.4722	2.2287e-03	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4886	1.1827e-03	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5034	1.4934e-03	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5235	1.9883e-03	0.0000e+00
78	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5715	9.7615e-04	0.0000e+00
80	PAN020136	-1.7124	-0.7206	-1.2219	2.6291e-01	8.7001e-01
81	PAN050136	-3.6123	-2.3916	-2.9926	2.5761e-01	1.6800e+00
82	PAN070136	-0.4902	0.1201	-0.1897	1.5837e-01	8.7000e-01
83	PAN080136	-1.7709	-1.2368	-1.4688	1.2744e-01	8.7001e-01
84	PAN090136	-0.9960	-0.4619	-0.7110	1.0764e-01	8.7000e-01
85	PAN100136	-1.2037	-0.7460	-1.0044	1.1102e-01	8.7000e-01
86	PAN105136	-0.5884	-0.2069	-0.4264	9.0316e-02	8.7000e-01
87	PAN110136	-0.5085	-0.2034	-0.3466	9.1649e-02	8.7000e-01
88	PAN115136	0.7885	1.1699	0.9753	1.0337e-01	8.7000e-01
89	PAN120136	-1.0297	-0.5719	-0.8195	9.7915e-02	8.7000e-01
90	PAN125136	-0.3798	0.0780	-0.1415	9.5536e-02	8.7000e-01
91	PAN130136	-0.7308	-0.4257	-0.5985	7.4322e-02	8.7000e-01
92	PAN120048	-1.1469	-0.6891	-0.8899	1.3001e-01	8.7000e-01
93	PAN130048	-1.0834	-0.6256	-0.8109	1.0447e-01	8.7000e-01
94	PAN120224	-0.0447	0.4894	0.2854	1.0833e-01	8.7000e-01
95	PAN130224	-1.0558	-0.6743	-0.8814	1.0093e-01	8.7000e-01
96	PAN120312	-0.5613	-0.1798	-0.3651	8.8097e-02	8.7000e-01
97	PAN130312	-1.3223	-0.8645	-1.0716	9.6001e-02	8.7000e-01
98	PAB000136	40.3621	40.6825	40.5274	8.0823e-02	5.8878e-01
99	PAB100136	41.0084	41.1458	41.0729	3.6091e-02	5.8902e-01
100	PAB125136	41.0630	41.2003	41.1078	4.0179e-02	5.8903e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1948	40.6830	40.4488	1.0524e-01	7.5679e-01
102	PRV000001	19.8194	19.9414	19.8218	1.7439e-02	7.5164e-01
103	PSR000001	40.4463	40.6905	40.5310	6.2064e-02	7.5681e-01
104	PFM000001	17.9082	18.6406	18.2631	1.4790e-01	5.0208e-01
105	PAN000136	-11.8113	-5.8604	-8.7097	1.4086e+00	4.9200e+00
106	PFM000002	17.6640	18.0863	17.8981	1.0807e-01	2.0494e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-6.2988	-4.1846	-5.5314	4.4023e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0045	1.3508e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	0.1247	0.3200	0.1606	7.6412e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.1072	9.2189e-02	8.1000e-01
114	VPW000003	0.0800	0.2753	0.1717	9.8483e-02	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.1002	9.0949e-02	8.1000e-01
116	VPW000005	-0.1153	0.2753	0.1358	9.7656e-02	8.1000e-01
117	VPW000006	-0.0400	0.5459	0.2191	1.1546e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	1.5155	1.1272e+00	8.1000e+00
119	IPW000002	0.3996	4.3022	1.3952	1.0630e+00	8.1000e+00
120	IPW000003	-0.7987	5.0513	2.3850	1.2393e+00	8.1000e+00
121	IPW000004	0.3000	1.2766	0.6687	2.3440e-01	2.0000e+00
122	IPW000005	-0.0883	0.4000	0.1608	2.4659e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.1701	3.3665e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0201	3.3994e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.9629e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0176	2.6022e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0140	2.6370e-03	0.0000e+00
128	IHT000001	-0.2094	0.3766	0.0417	1.0548e-01	4.1000e+00
129	IHT000002	0.0706	0.2659	0.1543	9.7656e-02	4.1000e+00
130	IHT000003	0.0259	0.6119	0.1375	1.2607e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1832	8.9148e-02	4.1000e+00
132	IHT000005	0.0753	0.2706	0.1550	9.6990e-02	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2025	1.1276e-01	4.1000e+00
134	IHT000007	0.0400	0.4306	0.1396	1.0640e-01	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1157	9.6150e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0474	9.7656e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1434	1.0851e-01	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0797	9.6990e-02	4.1000e+00
139	IHT000012	-0.2328	0.1578	0.0781	1.0486e-01	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0504	9.9303e-02	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1432	7.9736e-02	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0831	1.0188e-01	4.1000e+00
143	IHT000016	-0.0800	0.3106	0.0117	1.0625e-01	4.1000e+00
144	IHT000017	0.3647	0.9506	0.6238	1.7096e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.0962	1.0836e-01	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.1008	8.5810e-02	4.1000e+00
147	IHT000020	-0.0234	0.3672	0.0324	9.7656e-02	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.0460	1.2308e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	-0.0080	5.5804e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1002	9.0949e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	0.9846	1.0911e-01	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3879	9.7656e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0999	8.2141e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1201	9.7490e-02	4.1000e+00
155	IHT000028	-0.2000	0.1906	0.0671	1.0315e-01	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.0877	1.0594e-01	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0837	9.7656e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2234	8.3705e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1600	7.9736e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9474	7.9736e-02	4.1000e+00
161	IHT000034	-0.1953	0.1953	0.1315	1.0076e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1272	1.0548e-01	4.1000e+00
163	IHT000036	0.0800	0.2753	0.1079	6.9053e-02	4.1000e+00

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Velocity 1 = 0.003800 (ft/sec)

Velocity 2 = 0.003500 (ft/sec)

Pressure Drop = 0.004900 (psi)

Tsat in = 0.064301 (deg F) Tsat out = 0.051880 (deg F)

Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0407	0.0525
1	TRF000002	0.0312	0.0409
2	TFM000001	0.0441	0.0565
3	TIN000001	0.0261	0.0305
4	TRV000001	0.0085	0.0103
5	TSR000001	0.0430	0.0557
6	TAO020136	0.0733	0.0876
7	TAO050136	0.0401	0.0480
8	TAO070136	0.0071	0.0091
9	TAO080136	0.0178	0.0216
10	TAO090136	0.0141	0.0169
11	TAO100136	0.0261	0.0314
12	TAO105136	0.0625	0.0729
13	EMPTY	0.0031	0.0077
14	TAO115136	0.0224	0.0270
15	EMPTY	0.0409	0.1174
16	TAO125136	0.0082	0.0097
17	TAO130136	0.0252	0.0303
18	EMPTY	2.3926	1.0051
19	TAO130048	0.0182	0.0215
20	TAO120224	0.0286	0.0354
21	EMPTY	2.4392	0.4967
22	TAO120312	0.0061	0.0073
23	TAO130312	0.0144	0.0172
24	EMPTY	0.0096	0.0256
25	TRT070000	0.0313	0.0374
26	TRT100000	0.0412	0.0488
27	TRT120000	0.0123	0.0147
28	TRT125000	0.0102	0.0118
29	EMPTY	0.0057	0.0150
30	EMPTY	0.0116	0.0290
31	TAF050136	0.0011	0.0013
32	TAF070136	0.0076	0.0091
33	TAF080136	0.0311	0.0374
34	TAF090136	0.0532	0.0639
35	TAF100136	0.0372	0.0445
36	TAF105136	0.0505	0.0599
37	TAF110136	0.0045	0.0055
38	TAF115136	0.0799	0.0937
39	TAF120136	0.0285	0.0337
40	TAF125136	0.0169	0.0202
41	TAF130136	0.0056	0.0067
42	TAF120048	0.0147	0.0176
43	TAF130048	0.0216	0.0257
44	TAF120224	0.0428	0.0511
45	TAF130224	0.0138	0.0165

#	Name	Abs Diff	%Diff
46	EMPTY	0.0968	0.2651
47	EMPTY	0.0342	0.0907
48	TAI130048	0.0181	0.0216
49	EMPTY	0.0342	0.1110
50	TAI130224	0.0808	0.0965
51	EMPTY	0.0081	0.0211
52	TRR130000	0.0044	0.0053
53	TSI000001	0.0207	0.0447
54	TSI000002	0.0187	0.0300
55	TSO000001	0.0631	0.1353
56	TSO000002	0.0076	0.0108
57	TAF020136	0.0223	0.0290
58	TAF120312	0.0188	0.0221
59	TAF130312	0.0249	0.0301
60	EMPTY	0.0000	0.0000
61	EMPTY	0.0002	0.0562
62	EMPTY	0.0007	0.1891
63	EMPTY	0.0000	0.0000
64	EMPTY	0.0002	0.0684
65	EMPTY	0.0003	0.0959
66	EMPTY	0.0014	0.4258
67	EMPTY	0.0003	0.0864
68	EMPTY	0.0006	0.1658
69	EMPTY	0.0001	0.0263
70	EMPTY	0.0002	0.0505
71	EMPTY	0.0001	0.0238
72	EMPTY	0.0001	0.0230
73	EMPTY	0.0004	0.0880
74	EMPTY	0.0011	0.2324
75	EMPTY	0.0010	0.2043
76	EMPTY	0.0012	0.2378
77	EMPTY	0.0033	0.6264
78	EMPTY	0.0003	0.0548
79	EMPTY	0.0000	0.0000
80	PAN020136	0.0663	5.1467
81	PAN050136	0.0490	1.6110
82	PAN070136	0.0091	4.5775
83	PAN080136	0.0289	1.9296
84	PAN090136	0.0233	3.3881
85	PAN100136	0.0341	3.5144
86	PAN105136	0.0318	8.0588
87	PAN110136	0.0643	15.6486
88	PAN115136	0.0359	3.5502
89	PAN120136	0.0164	1.9620
90	PAN125136	0.0017	1.1872
91	PAN130136	0.0172	2.9589
92	PAN120048	0.0006	0.0674
93	PAN130048	0.0052	0.6454
94	PAN120224	0.0163	5.4027
95	PAN130224	0.0240	2.7992
96	PAN120312	0.0039	1.0569
97	PAN130312	0.0072	0.6764
98	PAB000136	0.0436	0.1077
99	PAB100136	0.0306	0.0746
100	PAB125136	0.0357	0.0869

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0658	0.1624
102	PRV000001	0.0049	0.0247
103	PSR000001	0.0041	0.0101
104	PFM000001	0.0125	0.0685
105	PAN000136	0.1353	1.5297
106	PFM000002	0.0119	0.0664
107	EMPTY	0.0000	0.0000
108	EMPTY	0.2712	5.2157
109	EMPTY	0.0008	21.6216
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0281	21.2076
113	VPW000002	0.0124	13.0802
114	VPW000003	0.0136	8.6022
115	VPW000004	0.0535	114.5610
116	VPW000005	0.0128	10.4065
117	VPW000006	0.0638	41.0818
118	IPW000001	0.1785	13.3508
119	IPW000002	0.6053	76.6300
120	IPW000003	1.1947	100.3697
121	IPW000004	0.3296	97.1985
122	IPW000005	0.2489	60.7518
123	IPW000006	0.1068	168.7204
124	EMPTY	0.0005	2.4272
125	EMPTY	0.0008	5.9702
126	EMPTY	0.0003	1.7341
127	EMPTY	0.0008	6.0606
128	IHT000001	0.0206	97.6303
129	IHT000002	0.0134	9.5103
130	IHT000003	0.0334	32.0845
131	IHT000004	0.0279	17.9652
132	IHT000005	0.0094	6.4560
133	IHT000006	0.0313	18.2827
134	IHT000007	0.0176	14.4262
135	IHT000008	0.0015	1.3135
136	IHT000009	0.0385	432.5843
137	IHT000010	0.0271	23.3018
138	IHT000011	0.0094	13.3713
139	IHT000012	0.0101	14.8529
140	IHT000013	0.0168	50.0000
141	IHT000014	0.0084	6.2314
142	IHT000015	0.0244	41.5673
143	IHT000016	0.0175	301.7242
144	IHT000017	0.0065	1.0313
145	IHT000018	0.0169	14.9425
146	IHT000019	0.0152	17.7570
147	IHT000020	0.0145	30.9168
148	IHT000021	0.0068	0.6459
149	IHT000022	0.0080	100.0000
150	IHT000023	0.0090	8.2418
151	IHT000024	0.0156	1.5597
152	IHT000025	0.0123	3.2748
153	IHT000026	0.0238	31.2746
154	IHT000027	0.0165	12.0791
155	IHT000028	0.0288	75.1958

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0135	18.1941
157	IHT000030	0.0212	33.9200
158	IHT000031	0.0076	3.5218
159	IHT000032	0.0234	17.1303
160	IHT000033	0.0240	1.2174
161	IHT000034	0.0338	34.5957
162	IHT000035	0.0117	8.4233
163	IHT000036	0.0162	17.6663

Velocity 1 = 8.9236 (ft/sec) (+/- 4.0227 %)
Velocity 2 = 8.8872 (ft/sec) (+/- 3.5486 %)
Pressure drop = -1.8307 (psi)
Tsat in = 268.1493 (deg F) Tsat out = 271.0716 (deg F)
Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 602.2618 %)
Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 911.7344 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.4860	77.9100	77.6556	1.5442e-01	1.9000e+00
1	TRF000002	76.0201	76.6535	76.3537	1.3549e-01	1.9000e+00
2	TFM000001	77.7150	78.6640	78.0717	2.1508e-01	1.9000e+00
3	TIN000001	85.1374	85.7679	85.4924	1.5296e-01	1.9002e+00
4	TRV000001	81.6775	82.6231	82.1880	2.1535e-01	1.9001e+00
5	TSR000001	77.0292	77.5572	77.3015	1.3991e-01	1.9000e+00
6	TAO020136	83.2003	84.0427	83.5902	2.5124e-01	1.9001e+00
7	TAO050136	83.1884	83.8186	83.5893	1.2838e-01	1.9001e+00
8	TAO070136	77.7633	78.3990	78.0876	2.0242e-01	1.9000e+00
9	TAO080136	82.2079	82.9423	82.5666	1.6831e-01	1.9001e+00
10	TAO090136	82.8951	83.7360	83.3008	1.9335e-01	1.9001e+00
11	TAO100136	82.9156	83.5468	83.2206	1.4610e-01	1.9001e+00
12	TAO105136	85.3167	86.1573	85.7852	1.9718e-01	1.9002e+00
13	EMPTY	39.8352	40.5234	40.1748	1.4089e-01	1.9011e+00
14	TAO115136	82.3250	83.2761	82.8641	2.1689e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8281	9.9527e-02	1.9008e+00
16	TAO125136	84.6427	85.2723	84.9136	1.1833e-01	1.9001e+00
17	TAO130136	82.6930	83.4237	82.9918	1.5945e-01	1.9001e+00
18	EMPTY	221.8276	235.9722	228.9000	3.3689e+00	1.9350e+00
19	TAO130048	84.2317	84.6523	84.4817	1.2350e-01	1.9001e+00
20	TAO120224	80.5369	81.1693	80.8807	1.4089e-01	1.9001e+00
21	EMPTY	-503.3629	-503.3629	-503.3631	2.4662e-04	2.0636e+00
22	TAO120312	82.8881	83.5198	83.2522	1.4768e-01	1.9001e+00
23	TAO130312	83.1032	83.9438	83.5927	1.5971e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5696	1.8597e-01	1.9010e+00
25	TRT070000	83.3612	83.8889	83.6632	1.4928e-01	1.9001e+00
26	TRT100000	84.0149	84.7495	84.3153	1.7102e-01	1.9001e+00
27	TRT120000	83.3481	84.0843	83.6994	1.4810e-01	1.9001e+00
28	TRT125000	85.9357	86.7727	86.5232	1.8399e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9330	1.1418e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9728	2.4089e-01	1.9011e+00
31	TAF050136	84.3033	84.9332	84.6789	1.5733e-01	1.9001e+00
32	TAF070136	83.3062	84.1439	83.7226	2.0005e-01	1.9001e+00
33	TAF080136	82.9164	83.5443	83.2204	1.8360e-01	1.9001e+00
34	TAF090136	82.8236	83.8754	83.2129	2.3193e-01	1.9001e+00
35	TAF100136	83.2351	83.9722	83.5952	1.8913e-01	1.9001e+00
36	TAF105136	83.7372	84.6786	84.3287	2.1370e-01	1.9001e+00
37	TAF110136	81.7956	82.5311	82.1717	1.6039e-01	1.9001e+00
38	TAF115136	84.9057	85.6406	85.2689	1.8260e-01	1.9002e+00
39	TAF120136	84.2867	84.9164	84.5828	1.4172e-01	1.9001e+00
40	TAF125136	83.3568	84.0908	83.7028	1.5738e-01	1.9001e+00
41	TAF130136	83.1186	83.6448	83.4279	1.3345e-01	1.9001e+00
42	TAF120048	82.7747	83.7272	83.2553	2.5504e-01	1.9001e+00
43	TAF130048	83.6066	84.2377	83.8651	1.2066e-01	1.9001e+00
44	TAF120224	83.2871	84.0238	83.6765	2.0961e-01	1.9001e+00
45	TAF130224	83.1329	83.7651	83.4044	1.1485e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.6168	2.2311e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6571	1.1609e-01	1.9010e+00
48	TAI130048	83.2675	84.5300	83.9597	3.0141e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8335	1.6618e-01	1.9006e+00
50	TAI130224	83.0332	84.1933	83.6260	3.1604e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2641	1.6328e-01	1.9010e+00
52	TRR130000	82.9776	84.0279	83.4419	2.6417e-01	1.9001e+00
53	TSI000001	45.9368	46.5874	46.3465	1.5529e-01	1.9004e+00
54	TSI000002	61.3381	62.6211	61.9435	2.5985e-01	1.9000e+00
55	TSO000001	46.0507	47.0300	46.6882	1.9305e-01	1.9004e+00
56	TSO000002	70.1354	71.0925	70.6862	2.2599e-01	1.9000e+00
57	TAF020136	76.7774	77.3091	77.0810	1.6760e-01	1.9000e+00
58	TAF120312	84.6108	85.5549	85.0870	2.6636e-01	1.9002e+00
59	TAF130312	82.2927	82.9225	82.6519	1.3938e-01	1.9001e+00
60	EMPTY	0.3369	0.3418	0.3384	2.2603e-03	0.0000e+00
61	EMPTY	0.3516	0.3564	0.3538	2.4583e-03	0.0000e+00
62	EMPTY	0.3662	0.3711	0.3667	1.4797e-03	0.0000e+00
63	EMPTY	0.3809	0.3857	0.3849	1.8950e-03	0.0000e+00
64	EMPTY	0.2881	0.2930	0.2889	1.8082e-03	0.0000e+00
65	EMPTY	0.3076	0.3125	0.3111	2.2146e-03	0.0000e+00
66	EMPTY	0.3271	0.3271	0.3271	0.0000e+00	0.0000e+00
67	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
68	EMPTY	0.3564	0.3613	0.3610	1.1714e-03	0.0000e+00
69	EMPTY	0.3760	0.3809	0.3802	1.7115e-03	0.0000e+00
70	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
71	EMPTY	0.4150	0.4199	0.4198	6.9053e-04	0.0000e+00
72	EMPTY	0.4346	0.4346	0.4346	0.0000e+00	0.0000e+00
73	EMPTY	0.4492	0.4541	0.4540	6.9053e-04	0.0000e+00
74	EMPTY	0.4688	0.4736	0.4690	1.1714e-03	0.0000e+00
75	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5226	6.9053e-04	0.0000e+00
78	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
79	EMPTY	0.5713	0.5713	0.5713	0.0000e+00	0.0000e+00
80	PAN020136	-6.9767	-5.6034	-6.3755	2.5404e-01	8.7015e-01
81	PAN050136	-13.0728	-12.4624	-12.7828	2.0038e-01	1.6803e+00
82	PAN070136	-7.5856	-7.0515	-7.3338	1.2063e-01	8.7019e-01
83	PAN080136	-4.6700	-4.2886	-4.4824	8.4719e-02	8.7007e-01
84	PAN090136	-4.2003	-3.8951	-4.0248	8.0462e-02	8.7006e-01
85	PAN100136	-4.4844	-4.1029	-4.2875	9.3872e-02	8.7007e-01
86	PAN105136	-2.1143	-1.8091	-1.9647	7.7007e-02	8.7001e-01
87	PAN110136	-2.1107	-1.8818	-1.9993	6.2058e-02	8.7001e-01
88	PAN115136	-1.1952	-0.8900	-1.0701	8.5487e-02	8.7000e-01
89	PAN120136	-2.4792	-2.1741	-2.3190	8.0462e-02	8.7002e-01
90	PAN125136	-1.9819	-1.6768	-1.8080	7.3936e-02	8.7001e-01
91	PAN130136	-2.3330	-1.9515	-2.1606	7.8307e-02	8.7002e-01
92	PAN120048	-4.5801	-4.1223	-4.3542	1.0563e-01	8.7007e-01
93	PAN130048	-4.2877	-3.9063	-4.0543	7.7698e-02	8.7006e-01
94	PAN120224	-3.4779	-3.1727	-3.3528	8.6865e-02	8.7004e-01
95	PAN130224	-4.3364	-3.9550	-4.1411	8.3234e-02	8.7006e-01
96	PAN120312	-3.9945	-3.6130	-3.7565	9.2019e-02	8.7005e-01
97	PAN130312	-4.4503	-4.1451	-4.3130	8.4424e-02	8.7007e-01
98	PAB000136	40.4078	40.6825	40.5269	5.9935e-02	5.8878e-01
99	PAB100136	42.1528	42.2902	42.2206	3.8400e-02	5.8953e-01
100	PAB125136	42.4821	42.6194	42.5535	4.8197e-02	5.8968e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1948	40.6830	40.4120	1.1379e-01	7.5677e-01
102	PRV000001	19.8194	19.9414	19.9097	5.4088e-02	7.5165e-01
103	PSR000001	42.1553	42.2774	42.1992	5.9189e-02	7.5738e-01
104	PFM000001	12.0488	12.5065	12.2960	1.1289e-01	5.0094e-01
105	PAN000136	-53.4678	-47.9746	-50.6846	1.2437e+00	4.9216e+00
106	PFM000002	12.0212	12.3422	12.1949	7.1273e-02	2.0231e-01
107	EMPTY	-0.0049	0.0049	0.0044	1.7784e-03	0.0000e+00
108	EMPTY	-6.1963	-4.3945	-5.5827	3.8695e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0025	2.4642e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1716	1.0106e-01	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0870	8.2864e-02	8.1000e-01
114	VPW000003	0.0800	0.8612	0.1777	1.4363e-01	8.1000e-01
115	VPW000004	-0.2306	0.1600	0.0623	1.0625e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1581	9.6655e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.2022	9.3043e-02	8.1000e-01
118	IPW000001	0.3998	2.3522	1.4932	9.7896e-01	8.1000e+00
119	IPW000002	0.3996	2.3509	1.0240	9.1946e-01	8.1000e+00
120	IPW000003	1.1513	5.0513	2.5943	1.4100e+00	8.1000e+00
121	IPW000004	0.3000	1.2766	0.7590	2.4976e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.2437	2.8656e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.1609	3.2479e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0200	3.5908e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0136	2.8403e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0162	3.0309e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0141	3.5072e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0094	7.5283e-02	4.1000e+00
129	IHT000002	0.0706	0.2659	0.1448	9.5765e-02	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1548	1.0145e-01	4.1000e+00
131	IHT000004	-0.0400	0.5459	0.1905	9.4125e-02	4.1000e+00
132	IHT000005	0.0753	0.2706	0.1652	9.8332e-02	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2064	8.3612e-02	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1337	9.8569e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1337	9.8569e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0558	8.1347e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1202	9.4125e-02	4.1000e+00
138	IHT000011	0.0000	0.3906	0.0781	1.0440e-01	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.0719	1.0559e-01	4.1000e+00
140	IHT000013	-0.2047	0.3813	0.0531	1.0763e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1192	8.3612e-02	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0822	9.3043e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	-0.0097	9.4702e-02	4.1000e+00
144	IHT000017	0.3647	0.9506	0.6225	1.9902e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.0389	9.5765e-02	4.1000e+00
146	IHT000019	-0.1247	0.0706	-0.0895	7.5798e-02	4.1000e+00
147	IHT000020	-0.2188	0.1719	0.0469	1.0259e-01	4.1000e+00
148	IHT000021	-1.1934	-0.6075	-0.9747	1.4573e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0000	6.8345e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1092	8.6541e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0158	7.5798e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3795	8.1347e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.1034	7.5283e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1366	7.5283e-02	4.1000e+00
155	IHT000028	-0.2000	0.3859	0.0656	1.0992e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.1133	9.7377e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0898	9.8332e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2314	1.0052e-01	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1639	7.3716e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9597	1.0320e-01	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1016	1.0617e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1506	9.3710e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.1034	8.4997e-02	4.1000e+00

Velocity 1 = 8.9274 (ft/sec) (+/- 4.0218 %)
 Velocity 2 = 8.8917 (ft/sec) (+/- 3.5485 %)
 Pressure drop = -1.8277 (psi)
 Tsat in = 268.1170 (deg F) Tsat out = 271.0354 (deg F)
 Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 694.6299 %)
 Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 1018.1296 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.2739	77.9100	77.6331	1.6309e-01	1.9000e+00
1	TRF000002	76.2313	76.6535	76.3605	1.2796e-01	1.9000e+00
2	TFM000001	77.7151	78.4539	78.0747	1.7217e-01	1.9000e+00
3	TIN000001	85.0319	85.8726	85.4610	1.7408e-01	1.9002e+00
4	TRV000001	81.7817	82.6231	82.2005	2.1055e-01	1.9001e+00
5	TSR000001	76.9232	77.5572	77.2920	1.4623e-01	1.9000e+00
6	TAO020136	83.0944	84.0429	83.5444	2.1595e-01	1.9001e+00
7	TAO050136	83.2934	83.9235	83.5547	1.6883e-01	1.9001e+00
8	TAO070136	77.5513	78.5044	78.0985	2.1557e-01	1.9000e+00
9	TAO080136	82.3114	82.8382	82.5503	1.3012e-01	1.9001e+00
10	TAO090136	82.8956	83.6310	83.2747	1.7788e-01	1.9001e+00
11	TAO100136	82.8104	83.5462	83.2224	1.5754e-01	1.9001e+00
12	TAO105136	85.2112	86.0526	85.7304	2.0400e-01	1.9002e+00
13	EMPTY	40.0646	40.2940	40.1349	1.0683e-01	1.9011e+00
14	TAO115136	82.5368	83.2761	82.8903	2.1084e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8246	9.7255e-02	1.9008e+00
16	TAO125136	84.6421	85.1680	84.8806	1.1510e-01	1.9001e+00
17	TAO130136	82.5874	83.6310	82.9532	1.8086e-01	1.9001e+00
18	EMPTY	249.0013	267.3393	257.4398	4.6442e+00	1.9441e+00
19	TAO130048	84.1272	84.6523	84.4568	1.3212e-01	1.9001e+00
20	TAO120224	80.4312	81.2750	80.8554	1.8067e-01	1.9001e+00
21	EMPTY	-504.8830	-504.5028	-504.5414	1.1628e-01	2.0644e+00
22	TAO120312	82.8875	83.5198	83.2596	1.7077e-01	1.9001e+00
23	TAO130312	83.2082	84.0487	83.5727	2.0691e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.5938	1.6622e-01	1.9010e+00
25	TRT070000	83.2556	83.8889	83.6110	1.5944e-01	1.9001e+00
26	TRT100000	83.9094	84.7501	84.3149	2.1211e-01	1.9001e+00
27	TRT120000	83.2425	83.9791	83.6571	1.4628e-01	1.9001e+00
28	TRT125000	86.0404	86.7727	86.4798	1.8717e-01	1.9002e+00
29	EMPTY	37.7675	38.4572	37.9599	1.4350e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9101	2.3132e-01	1.9011e+00
31	TAF050136	84.3028	85.0380	84.6651	1.7796e-01	1.9001e+00
32	TAF070136	83.3068	84.1434	83.7182	1.9155e-01	1.9001e+00
33	TAF080136	82.9164	83.5461	83.1902	1.4943e-01	1.9001e+00
34	TAF090136	82.7186	83.6652	83.1822	2.5573e-01	1.9001e+00
35	TAF100136	83.2351	83.8673	83.5531	1.5265e-01	1.9001e+00
36	TAF105136	83.7372	84.9918	84.3258	2.7532e-01	1.9001e+00
37	TAF110136	81.7956	82.6362	82.1429	1.6914e-01	1.9001e+00
38	TAF115136	84.8003	85.7453	85.2655	1.7927e-01	1.9002e+00
39	TAF120136	84.3916	84.9164	84.5417	1.1350e-01	1.9001e+00
40	TAF125136	83.3568	84.0908	83.7119	1.6956e-01	1.9001e+00
41	TAF130136	83.1186	83.6448	83.4406	1.1845e-01	1.9001e+00
42	TAF120048	82.8798	83.6217	83.2414	1.9793e-01	1.9001e+00
43	TAF130048	83.6060	84.1323	83.8532	1.0861e-01	1.9001e+00
44	TAF120224	83.2871	84.0233	83.6393	1.6575e-01	1.9001e+00
45	TAF130224	83.1324	83.6608	83.3883	1.2176e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5980	1.9287e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6736	1.1423e-01	1.9010e+00
48	TAI130048	83.2670	84.3192	83.8364	2.6822e-01	1.9001e+00
49	EMPTY	30.3254	31.0376	30.8051	1.6424e-01	1.9006e+00
50	TAI130224	82.9277	84.0879	83.6273	2.9266e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2508	1.7078e-01	1.9010e+00
52	TRR130000	82.9777	83.8182	83.4128	2.0565e-01	1.9001e+00
53	TSI000001	46.0451	46.9120	46.3150	1.7152e-01	1.9004e+00
54	TSI000002	61.4450	62.5143	61.9798	2.7954e-01	1.9000e+00
55	TSO000001	46.2683	47.0300	46.7279	1.7101e-01	1.9004e+00
56	TSO000002	69.8160	70.5608	70.2265	2.0136e-01	1.9000e+00
57	TAF020136	76.7774	77.6261	77.1328	1.7291e-01	1.9000e+00
58	TAF120312	84.6108	85.6597	85.0560	2.4634e-01	1.9002e+00
59	TAF130312	82.1871	83.0281	82.6485	1.6995e-01	1.9001e+00
60	EMPTY	0.3320	0.3418	0.3376	1.9934e-03	0.0000e+00
61	EMPTY	0.3516	0.3564	0.3528	2.1215e-03	0.0000e+00
62	EMPTY	0.3662	0.3711	0.3663	6.9754e-04	0.0000e+00
63	EMPTY	0.3809	0.3857	0.3849	1.8234e-03	0.0000e+00
64	EMPTY	0.2881	0.2930	0.2889	1.8234e-03	0.0000e+00
65	EMPTY	0.3076	0.3125	0.3106	2.4037e-03	0.0000e+00
66	EMPTY	0.3271	0.3271	0.3271	0.0000e+00	0.0000e+00
67	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
68	EMPTY	0.3564	0.3711	0.3613	1.7263e-03	0.0000e+00
69	EMPTY	0.3760	0.3809	0.3802	1.7263e-03	0.0000e+00
70	EMPTY	0.3955	0.4004	0.3957	9.7615e-04	0.0000e+00
71	EMPTY	0.4150	0.4248	0.4198	1.2165e-03	0.0000e+00
72	EMPTY	0.4346	0.4346	0.4346	0.0000e+00	0.0000e+00
73	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
74	EMPTY	0.4688	0.4736	0.4689	9.7615e-04	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4884	6.9754e-04	0.0000e+00
76	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
77	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
78	EMPTY	0.5469	0.5518	0.5470	6.9754e-04	0.0000e+00
79	EMPTY	0.5664	0.5762	0.5711	1.3951e-03	0.0000e+00
80	PAN020136	-6.8241	-5.8323	-6.3694	2.4523e-01	8.7015e-01
81	PAN050136	-13.2253	-12.4624	-12.7956	1.9118e-01	1.6803e+00
82	PAN070136	-7.5856	-6.8226	-7.2820	1.5377e-01	8.7019e-01
83	PAN080136	-4.6700	-4.2123	-4.4692	1.0527e-01	8.7007e-01
84	PAN090136	-4.2766	-3.8951	-4.0041	8.3866e-02	8.7006e-01
85	PAN100136	-4.4081	-4.1029	-4.2602	7.0354e-02	8.7007e-01
86	PAN105136	-2.1143	-1.8091	-1.9477	7.7357e-02	8.7001e-01
87	PAN110136	-2.1870	-1.8818	-1.9908	7.4688e-02	8.7001e-01
88	PAN115136	-1.1952	-0.8137	-1.0286	8.0431e-02	8.7000e-01
89	PAN120136	-2.4792	-2.1741	-2.3251	8.1653e-02	8.7002e-01
90	PAN125136	-1.9056	-1.6768	-1.7920	6.9859e-02	8.7001e-01
91	PAN130136	-2.2567	-2.0278	-2.1462	8.1014e-02	8.7002e-01
92	PAN120048	-4.5038	-4.1223	-4.3372	9.4311e-02	8.7007e-01
93	PAN130048	-4.2114	-3.8300	-4.0293	8.2136e-02	8.7006e-01
94	PAN120224	-3.4779	-3.1727	-3.3502	9.2643e-02	8.7004e-01
95	PAN130224	-4.3364	-3.8787	-4.1231	9.9694e-02	8.7006e-01
96	PAN120312	-3.9182	-3.5367	-3.7438	8.5299e-02	8.7005e-01
97	PAN130312	-4.4503	-4.1451	-4.2977	9.0808e-02	8.7007e-01
98	PAB000136	40.3621	40.6367	40.5050	5.8825e-02	5.8877e-01
99	PAB100136	42.1071	42.2444	42.1995	4.4313e-02	5.8952e-01
100	PAB125136	42.4363	42.6194	42.5278	3.8527e-02	5.8966e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3168	40.5610	40.4439	7.8635e-02	7.5678e-01
102	PRV000001	19.8194	19.9414	19.8318	3.7334e-02	7.5164e-01
103	PSR000001	42.1553	42.2774	42.1852	5.3037e-02	7.5738e-01
104	PFM000001	12.0488	12.5981	12.3066	1.3171e-01	5.0095e-01
105	PAN000136	-52.5522	-47.9746	-50.5997	1.1700e+00	4.9216e+00
106	PFM000002	11.9536	12.3760	12.2074	9.9082e-02	2.0232e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-6.0742	-4.9316	-5.6840	2.4331e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0027	2.4538e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1685	9.1482e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.1072	8.3122e-02	8.1000e-01
114	VPW000003	-0.1153	0.2753	0.1398	9.9303e-02	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0683	1.0625e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1557	9.6150e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1912	9.4962e-02	8.1000e-01
118	IPW000001	-1.5525	2.3522	0.9577	9.7617e-01	8.1000e+00
119	IPW000002	0.3996	4.3022	1.5146	1.0538e+00	8.1000e+00
120	IPW000003	1.1513	5.0513	2.6237	1.3516e+00	8.1000e+00
121	IPW000004	0.3000	1.2766	0.7584	2.0926e-01	2.0000e+00
122	IPW000005	-0.0883	0.4000	0.1309	2.4536e-01	2.0000e+00
123	IPW000006	-0.2883	1.1766	0.2100	3.5224e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0209	3.1518e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.6370e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0172	2.8370e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0140	2.9901e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0218	9.4962e-02	4.1000e+00
129	IHT000002	-0.1247	0.2659	0.1424	1.0315e-01	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1336	1.0594e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1473	7.9328e-02	4.1000e+00
132	IHT000005	0.0753	0.4659	0.1630	1.1319e-01	4.1000e+00
133	IHT000006	0.0072	0.5931	0.2105	1.1933e-01	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1237	9.7656e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1317	9.8483e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0394	1.0299e-01	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.0995	9.7656e-02	4.1000e+00
138	IHT000011	-0.1953	0.1953	0.0598	9.9303e-02	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.0701	1.0594e-01	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0305	1.0533e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1034	1.1560e-01	4.1000e+00
142	IHT000015	-0.1600	0.4259	0.1031	1.1658e-01	4.1000e+00
143	IHT000016	-0.0800	0.3106	0.0037	1.0548e-01	4.1000e+00
144	IHT000017	0.3647	1.1459	0.6397	1.7793e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.0843	9.6150e-02	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.0968	7.9736e-02	4.1000e+00
147	IHT000020	-0.0234	0.3672	0.0682	1.0625e-01	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.0181	1.5047e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0080	5.5804e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1361	8.5810e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	0.9886	6.8582e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3680	7.9328e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0800	5.6382e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1600	5.6382e-02	4.1000e+00
155	IHT000028	-0.2000	0.1906	0.0830	1.1319e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.1953	0.1953	0.0877	1.0594e-01	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0996	9.8648e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2154	9.1305e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1560	8.4477e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9793	9.3412e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1276	1.0955e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1232	8.4477e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0999	7.1817e-02	4.1000e+00

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Velocity 1 = 0.003799 (ft/sec)

Velocity 2 = 0.004499 (ft/sec)

Pressure Drop = 0.003000 (psi)

Tsat in = 0.032288 (deg F) Tsat out = 0.036194 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0225	0.0290
1	TRF000002	0.0068	0.0089
2	TFM000001	0.0030	0.0038
3	TIN000001	0.0314	0.0367
4	TRV000001	0.0125	0.0152
5	TSR000001	0.0095	0.0123
6	TAO020136	0.0458	0.0548
7	TAO050136	0.0346	0.0414
8	TAO070136	0.0109	0.0140
9	TAO080136	0.0163	0.0197
10	TAO090136	0.0261	0.0313
11	TAO100136	0.0018	0.0022
12	TAO105136	0.0548	0.0639
13	EMPTY	0.0399	0.0993
14	TAO115136	0.0262	0.0316
15	EMPTY	0.0035	0.0100
16	TAO125136	0.0330	0.0389
17	TAO130136	0.0386	0.0465
18	EMPTY	28.5398	12.4682
19	TAO130048	0.0249	0.0295
20	TAO120224	0.0253	0.0313
21	EMPTY	1.1783	0.2341
22	TAO120312	0.0074	0.0089
23	TAO130312	0.0200	0.0239
24	EMPTY	0.0242	0.0644
25	TRT070000	0.0522	0.0624
26	TRT100000	0.0004	0.0005
27	TRT120000	0.0423	0.0505
28	TRT125000	0.0434	0.0502
29	EMPTY	0.0269	0.0709
30	EMPTY	0.0627	0.1569
31	TAF050136	0.0138	0.0163
32	TAF070136	0.0044	0.0053
33	TAF080136	0.0302	0.0363
34	TAF090136	0.0307	0.0369
35	TAF100136	0.0421	0.0504
36	TAF105136	0.0029	0.0034
37	TAF110136	0.0288	0.0350
38	TAF115136	0.0034	0.0040
39	TAF120136	0.0411	0.0486
40	TAF125136	0.0091	0.0109
41	TAF130136	0.0127	0.0152
42	TAF120048	0.0139	0.0167
43	TAF130048	0.0119	0.0142
44	TAF120224	0.0372	0.0445
45	TAF130224	0.0161	0.0193

#	Name	Abs Diff	%Diff
46	EMPTY	0.0188	0.0513
47	EMPTY	0.0165	0.0438
48	TAI130048	0.1233	0.1469
49	EMPTY	0.0284	0.0921
50	TAI130224	0.0013	0.0016
51	EMPTY	0.0133	0.0348
52	TRR130000	0.0291	0.0349
53	TSI000001	0.0315	0.0680
54	TSI000002	0.0363	0.0586
55	TSO000001	0.0397	0.0850
56	TSO000002	0.4597	0.6503
57	TAF020136	0.0518	0.0672
58	TAF120312	0.0310	0.0364
59	TAF130312	0.0034	0.0041
60	EMPTY	0.0008	0.2364
61	EMPTY	0.0010	0.2826
62	EMPTY	0.0004	0.1091
63	EMPTY	0.0000	0.0000
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0005	0.1607
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0003	0.0831
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0002	0.0506
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0001	0.0220
74	EMPTY	0.0001	0.0213
75	EMPTY	0.0001	0.0205
76	EMPTY	0.0001	0.0199
77	EMPTY	0.0001	0.0191
78	EMPTY	0.0001	0.0183
79	EMPTY	0.0002	0.0350
80	PAN020136	0.0061	0.0957
81	PAN050136	0.0128	0.1001
82	PAN070136	0.0518	0.7063
83	PAN080136	0.0132	0.2945
84	PAN090136	0.0207	0.5143
85	PAN100136	0.0273	0.6367
86	PAN105136	0.0170	0.8653
87	PAN110136	0.0085	0.4251
88	PAN115136	0.0415	3.8781
89	PAN120136	0.0061	0.2630
90	PAN125136	0.0160	0.8850
91	PAN130136	0.0144	0.6665
92	PAN120048	0.0170	0.3904
93	PAN130048	0.0250	0.6166
94	PAN120224	0.0026	0.0775
95	PAN130224	0.0180	0.4347
96	PAN120312	0.0127	0.3381
97	PAN130312	0.0153	0.3547
98	PAB000136	0.0219	0.0540
99	PAB100136	0.0211	0.0500
100	PAB125136	0.0257	0.0604

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0319	0.0789
102	PRV000001	0.0779	0.3913
103	PSR000001	0.0140	0.0332
104	PFM000001	0.0106	0.0862
105	PAN000136	0.0849	0.1675
106	PFM000002	0.0125	0.1025
107	EMPTY	0.0005	11.3636
108	EMPTY	0.1013	1.8145
109	EMPTY	0.0002	8.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0031	1.8065
113	VPW000002	0.0202	23.2184
114	VPW000003	0.0379	21.3281
115	VPW000004	0.0060	9.6308
116	VPW000005	0.0024	1.5180
117	VPW000006	0.0110	5.4402
118	IPW000001	0.5355	35.8626
119	IPW000002	0.4906	47.9102
120	IPW000003	0.0294	1.1332
121	IPW000004	0.0006	0.0790
122	IPW000005	0.1128	46.2864
123	IPW000006	0.0491	30.5158
124	EMPTY	0.0009	4.5000
125	EMPTY	0.0004	2.9412
126	EMPTY	0.0010	6.1728
127	EMPTY	0.0001	0.7092
128	IHT000001	0.0124	131.9149
129	IHT000002	0.0024	1.6575
130	IHT000003	0.0212	13.6951
131	IHT000004	0.0432	22.6772
132	IHT000005	0.0022	1.3317
133	IHT000006	0.0041	1.9864
134	IHT000007	0.0100	7.4794
135	IHT000008	0.0020	1.4959
136	IHT000009	0.0164	29.3907
137	IHT000010	0.0207	17.2213
138	IHT000011	0.0183	23.4315
139	IHT000012	0.0018	2.5035
140	IHT000013	0.0226	42.5612
141	IHT000014	0.0158	13.2550
142	IHT000015	0.0209	25.4258
143	IHT000016	0.0134	138.1443
144	IHT000017	0.0172	2.7631
145	IHT000018	0.0454	116.7095
146	IHT000019	0.0073	8.1564
147	IHT000020	0.0213	45.4158
148	IHT000021	0.0434	4.4527
149	IHT000022	0.0080	100.0000
150	IHT000023	0.0269	24.6337
151	IHT000024	0.0272	2.6777
152	IHT000025	0.0115	3.0303
153	IHT000026	0.0234	22.6306
154	IHT000027	0.0234	17.1303
155	IHT000028	0.0174	26.5244

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0256	22.5949
157	IHT000030	0.0098	10.9131
158	IHT000031	0.0160	6.9144
159	IHT000032	0.0079	4.8200
160	IHT000033	0.0196	1.0002
161	IHT000034	0.0260	25.5906
162	IHT000035	0.0274	18.1939
163	IHT000036	0.0035	3.3849

Velocity 1 = 6.9821 (ft/sec) (+/- 4.8173 %)
 Velocity 2 = 6.9681 (ft/sec) (+/- 3.6751 %)
 Pressure drop = -3.1138 (psi)
 Tsat in = 268.1074 (deg F) Tsat out = 272.7530 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 994.6928 %)
 Phi outer = 0.0003 (kBtu/hr-ft2) (+/- 681.2809 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.2739	78.1219	77.7150	1.8590e-01	1.9000e+00
1	TRF000002	76.2313	76.6535	76.3875	1.4024e-01	1.9000e+00
2	TFM000001	77.7156	78.6652	78.2531	2.1553e-01	1.9000e+00
3	TIN000001	85.1368	86.0833	85.6395	1.6353e-01	1.9002e+00
4	TRV000001	81.9924	82.6231	82.3938	1.8459e-01	1.9001e+00
5	TSR000001	77.0287	77.5572	77.3565	1.4501e-01	1.9000e+00
6	TAO020136	83.1998	84.0438	83.6112	2.0673e-01	1.9001e+00
7	TAO050136	83.3989	84.0277	83.7403	1.5117e-01	1.9001e+00
8	TAO070136	77.6573	78.7170	78.1808	1.8706e-01	1.9000e+00
9	TAO080136	82.4170	83.0478	82.7342	1.5070e-01	1.9001e+00
10	TAO090136	83.1056	83.7360	83.4731	1.5633e-01	1.9001e+00
11	TAO100136	83.1256	83.7563	83.4056	1.4356e-01	1.9001e+00
12	TAO105136	85.5263	86.3675	85.9155	2.1883e-01	1.9002e+00
13	EMPTY	40.0646	40.2940	40.1656	1.1503e-01	1.9011e+00
14	TAO115136	82.6423	83.3821	83.0502	1.9086e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8835	1.1643e-01	1.9008e+00
16	TAO125136	84.7470	85.3782	85.0606	1.5947e-01	1.9002e+00
17	TAO130136	82.6930	83.2164	83.0505	1.3732e-01	1.9001e+00
18	EMPTY	221.6377	257.2925	237.5630	8.9013e+00	1.9376e+00
19	TAO130048	84.3360	84.7577	84.5280	1.1579e-01	1.9001e+00
20	TAO120224	80.7477	81.6963	81.0704	2.1961e-01	1.9001e+00
21	EMPTY	-510.2172	-509.8355	-510.0186	1.9261e-01	2.0678e+00
22	TAO120312	83.0987	83.7302	83.4501	1.9677e-01	1.9001e+00
23	TAO130312	83.2082	84.1536	83.6139	1.9228e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5466	1.7977e-01	1.9009e+00
25	TRT070000	83.3612	84.1007	83.8027	1.5634e-01	1.9001e+00
26	TRT100000	84.0144	84.9597	84.5378	1.9494e-01	1.9001e+00
27	TRT120000	83.3481	84.0843	83.8717	1.8091e-01	1.9001e+00
28	TRT125000	86.2490	86.9811	86.6528	1.6889e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9330	1.2327e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9407	1.8665e-01	1.9011e+00
31	TAF050136	84.5131	85.1425	84.8425	1.7739e-01	1.9001e+00
32	TAF070136	83.4097	84.3522	83.9235	2.1182e-01	1.9001e+00
33	TAF080136	83.1246	83.8585	83.4045	1.6886e-01	1.9001e+00
34	TAF090136	82.9288	83.8754	83.3938	2.8022e-01	1.9001e+00
35	TAF100136	83.4452	84.0777	83.7342	1.4861e-01	1.9001e+00
36	TAF105136	83.9458	85.0954	84.5251	2.5417e-01	1.9001e+00
37	TAF110136	82.0047	82.6367	82.3522	1.5357e-01	1.9001e+00
38	TAF115136	85.0106	85.8496	85.4032	1.8826e-01	1.9002e+00
39	TAF120136	84.4970	85.0218	84.7880	1.2255e-01	1.9001e+00
40	TAF125136	83.5653	84.1962	83.8871	1.6208e-01	1.9001e+00
41	TAF130136	83.1180	83.9605	83.6298	1.8038e-01	1.9001e+00
42	TAF120048	82.9869	83.8337	83.4289	1.9787e-01	1.9001e+00
43	TAF130048	83.7115	84.3432	84.0545	1.4850e-01	1.9001e+00
44	TAF120224	83.4970	84.1293	83.8196	1.8827e-01	1.9001e+00
45	TAF130224	83.3434	83.8712	83.6329	1.2919e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5799	2.1502e-01	1.9009e+00
47	EMPTY	37.5374	37.9974	37.6709	1.2374e-01	1.9010e+00
48	TAI130048	83.3720	84.7404	84.0439	3.0725e-01	1.9001e+00
49	EMPTY	29.8504	31.2749	30.8430	2.3343e-01	1.9006e+00
50	TAI130224	83.2438	84.4037	83.7863	2.7606e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2871	1.6622e-01	1.9010e+00
52	TRR130000	83.1876	84.0279	83.5218	1.9860e-01	1.9001e+00
53	TSI000001	46.0445	46.5874	46.3423	1.5307e-01	1.9004e+00
54	TSI000002	61.1242	62.7284	62.0035	3.7617e-01	1.9000e+00
55	TSO000001	46.3765	47.6832	46.9670	2.9522e-01	1.9004e+00
56	TSO000002	69.7093	70.4547	70.1163	1.8700e-01	1.9000e+00
57	TAF020136	76.8829	77.5206	77.1318	1.5117e-01	1.9000e+00
58	TAF120312	84.6108	85.7643	85.2715	2.6802e-01	1.9002e+00
59	TAF130312	82.5024	83.2376	82.8241	1.5942e-01	1.9001e+00
60	EMPTY	0.3369	0.3418	0.3417	6.9053e-04	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3565	6.9053e-04	0.0000e+00
62	EMPTY	0.3662	0.3711	0.3706	1.4797e-03	0.0000e+00
63	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
64	EMPTY	0.2881	0.2930	0.2896	2.2603e-03	0.0000e+00
65	EMPTY	0.3076	0.3125	0.3117	1.8082e-03	0.0000e+00
66	EMPTY	0.3223	0.3271	0.3271	6.9053e-04	0.0000e+00
67	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
68	EMPTY	0.3613	0.3613	0.3613	0.0000e+00	0.0000e+00
69	EMPTY	0.3760	0.3809	0.3806	1.1714e-03	0.0000e+00
70	EMPTY	0.3906	0.4102	0.3957	2.1970e-03	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4200	6.9053e-04	0.0000e+00
72	EMPTY	0.4346	0.4346	0.4346	0.0000e+00	0.0000e+00
73	EMPTY	0.4492	0.4541	0.4540	6.9053e-04	0.0000e+00
74	EMPTY	0.4639	0.4736	0.4695	2.0598e-03	0.0000e+00
75	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
76	EMPTY	0.4980	0.5029	0.5028	6.9053e-04	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5229	1.3381e-03	0.0000e+00
78	EMPTY	0.5420	0.5469	0.5468	6.9053e-04	0.0000e+00
79	EMPTY	0.5664	0.5713	0.5711	9.6655e-04	0.0000e+00
80	PAN020136	-11.1729	-10.3336	-10.7502	1.8186e-01	8.7042e-01
81	PAN050136	-21.3125	-20.7021	-21.0195	1.4073e-01	1.6808e+00
82	PAN070136	-13.5365	-13.0787	-13.2725	9.5279e-02	8.7063e-01
83	PAN080136	-7.2640	-6.9589	-7.1221	7.8610e-02	8.7018e-01
84	PAN090136	-7.0995	-6.7180	-6.8462	8.3633e-02	8.7017e-01
85	PAN100136	-7.1547	-6.7732	-6.9853	7.7514e-02	8.7018e-01
86	PAN105136	-3.4113	-3.1824	-3.3014	4.9131e-02	8.7004e-01
87	PAN110136	-3.6366	-3.3314	-3.4382	5.5575e-02	8.7004e-01
88	PAN115136	-2.9500	-2.6448	-2.8004	6.5322e-02	8.7003e-01
89	PAN120136	-3.7000	-3.4711	-3.5687	6.3627e-02	8.7005e-01
90	PAN125136	-3.4315	-3.2026	-3.3125	6.3851e-02	8.7004e-01
91	PAN130136	-3.6300	-3.4011	-3.5766	6.0192e-02	8.7005e-01
92	PAN120048	-7.4030	-7.0978	-7.2168	8.1794e-02	8.7019e-01
93	PAN130048	-6.8817	-6.5765	-6.7215	8.3362e-02	8.7016e-01
94	PAN120224	-6.5297	-6.2245	-6.3878	9.3771e-02	8.7015e-01
95	PAN130224	-7.0067	-6.7015	-6.8938	7.8957e-02	8.7017e-01
96	PAN120312	-6.7411	-6.4359	-6.5732	7.0634e-02	8.7016e-01
97	PAN130312	-7.1206	-6.8154	-6.9467	8.3063e-02	8.7017e-01
98	PAB000136	40.3621	40.5910	40.4985	6.0284e-02	5.8877e-01
99	PAB100136	43.0684	43.2057	43.1590	4.1863e-02	5.8995e-01
100	PAB125136	43.7180	43.8096	43.7583	3.7725e-02	5.9023e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3168	40.5610	40.4486	8.4860e-02	7.5679e-01
102	PRV000001	19.8194	19.9414	19.8413	4.7374e-02	7.5164e-01
103	PSR000001	43.4981	43.6201	43.6152	2.4164e-02	7.5788e-01
104	PFM000001	7.2880	7.6542	7.4840	8.2739e-02	5.0035e-01
105	PAN000136	-88.2578	-84.1379	-86.2070	9.7979e-01	4.9247e+00
106	PFM000002	7.3752	7.5610	7.4536	4.4209e-02	2.0087e-01
107	EMPTY	-0.0049	0.0049	0.0034	3.0003e-03	0.0000e+00
108	EMPTY	-6.9922	-5.1660	-5.8932	2.9460e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0007	2.4184e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1598	8.5454e-02	8.1000e-01
113	VPW000002	-0.1200	0.4659	0.1066	9.1354e-02	8.1000e-01
114	VPW000003	-0.1153	0.4706	0.1659	1.1942e-01	8.1000e-01
115	VPW000004	-0.2306	0.3553	0.0741	1.1272e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1659	9.7935e-02	8.1000e-01
117	VPW000006	0.1553	0.3506	0.2139	9.0412e-02	8.1000e-01
118	IPW000001	0.3998	6.2569	2.8207	1.1540e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.7899	1.1150e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.0343	1.0724e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.4562	2.5034e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.9175	2.8605e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.1512	3.4527e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0188	3.1211e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.6908e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0155	2.7356e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0138	3.2253e-03	0.0000e+00
128	IHT000001	-0.4047	0.1813	0.0289	1.0654e-01	4.1000e+00
129	IHT000002	0.0706	0.4612	0.1487	1.0440e-01	4.1000e+00
130	IHT000003	0.0259	0.2212	0.1080	9.7377e-02	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1553	9.6655e-02	4.1000e+00
132	IHT000005	0.0753	0.4659	0.1456	1.0259e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2220	9.0412e-02	4.1000e+00
134	IHT000007	0.0400	0.4306	0.1337	1.1327e-01	4.1000e+00
135	IHT000008	-0.1553	0.2353	0.1337	1.0617e-01	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0362	9.6655e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1084	1.0849e-01	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0820	9.7377e-02	4.1000e+00
139	IHT000012	-0.2328	0.1578	0.0680	1.0595e-01	4.1000e+00
140	IHT000013	-0.0094	0.1859	0.0453	8.8585e-02	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1270	7.2866e-02	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0744	7.8918e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0138	9.8569e-02	4.1000e+00
144	IHT000017	0.3647	1.1459	0.6850	1.8825e-01	4.1000e+00
145	IHT000018	-0.0353	0.5506	0.1287	1.1409e-01	4.1000e+00
146	IHT000019	-0.1247	0.0706	-0.1052	5.9189e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0469	9.4702e-02	4.1000e+00
148	IHT000021	-1.1934	-0.6075	-0.8927	1.1306e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	-0.0039	6.2265e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1209	7.8918e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0119	7.2330e-02	4.1000e+00
152	IHT000025	-0.5553	-0.3600	-0.3795	5.9189e-02	4.1000e+00
153	IHT000026	0.0800	0.2753	0.1034	6.4113e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1327	7.9017e-02	4.1000e+00
155	IHT000028	-0.2000	0.3859	0.0617	1.0885e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.1953	0.3906	0.1016	1.1995e-01	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0977	9.8648e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2314	8.3612e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1444	1.0320e-01	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9362	8.8233e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1367	1.2001e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1506	7.5283e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0995	8.1347e-02	4.1000e+00

Velocity 1 = 6.9857 (ft/sec) (+/- 4.8150 %)

Velocity 2 = 6.9700 (ft/sec) (+/- 3.6748 %)

Pressure drop = -3.1160 (psi)

Tsat in = 268.2257 (deg F) Tsat out = 272.8958 (deg F)

Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 749.3512 %)

Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 887.2426 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.4860	78.1219	77.7023	1.4668e-01	1.9000e+00
1	TRF000002	76.2313	76.6535	76.4381	1.3275e-01	1.9000e+00
2	TFM000001	77.8204	78.7699	78.3286	2.3649e-01	1.9000e+00
3	TIN000001	85.4524	86.0833	85.7012	1.6569e-01	1.9002e+00
4	TRV000001	81.8873	82.7272	82.4362	1.8470e-01	1.9001e+00
5	TSR000001	77.0292	77.5572	77.3610	1.2372e-01	1.9000e+00
6	TAO020136	83.2003	84.0434	83.6475	2.1890e-01	1.9001e+00
7	TAO050136	83.6076	84.0277	83.7857	1.2340e-01	1.9001e+00
8	TAO070136	77.7628	78.3990	78.1545	1.9502e-01	1.9000e+00
9	TAO080136	82.4170	83.1507	82.7514	1.5235e-01	1.9001e+00
10	TAO090136	83.0001	83.9458	83.5148	1.9796e-01	1.9001e+00
11	TAO100136	83.0206	83.7563	83.4412	1.2330e-01	1.9001e+00
12	TAO105136	85.6316	86.3669	85.9662	1.9967e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.1911	1.2443e-01	1.9011e+00
14	TAO115136	82.7479	83.3827	83.0799	1.7919e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8952	1.1633e-01	1.9008e+00
16	TAO125136	84.7475	85.3782	85.1118	1.3231e-01	1.9002e+00
17	TAO130136	82.6930	83.3219	83.0813	1.2974e-01	1.9001e+00
18	EMPTY	237.8436	290.0121	260.7905	1.2945e+01	1.9453e+00
19	TAO130048	84.1272	84.8616	84.5597	1.5530e-01	1.9001e+00
20	TAO120224	80.7477	81.4856	81.1091	1.7077e-01	1.9001e+00
21	EMPTY	-512.5101	-512.5101	-512.5099	1.8500e-04	2.0694e+00
22	TAO120312	83.0981	83.7297	83.4486	1.3659e-01	1.9001e+00
23	TAO130312	83.3132	83.9438	83.7013	1.6212e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.5938	1.9092e-01	1.9010e+00
25	TRT070000	83.5730	84.2062	83.8570	1.5119e-01	1.9001e+00
26	TRT100000	84.1204	84.9597	84.5591	1.6962e-01	1.9001e+00
27	TRT120000	83.5583	84.1898	83.9017	1.3873e-01	1.9001e+00
28	TRT125000	86.3537	87.0863	86.7015	1.8627e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9834	9.8549e-02	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9242	1.9772e-01	1.9011e+00
31	TAF050136	84.5131	85.1425	84.8705	1.6975e-01	1.9001e+00
32	TAF070136	83.5157	84.6649	83.9959	2.2066e-01	1.9001e+00
33	TAF080136	83.1251	83.7530	83.4592	1.4909e-01	1.9001e+00
34	TAF090136	82.7186	83.8754	83.4268	2.6431e-01	1.9001e+00
35	TAF100136	83.4457	84.1827	83.8195	1.7199e-01	1.9001e+00
36	TAF105136	84.0507	84.7840	84.4881	2.0511e-01	1.9001e+00
37	TAF110136	82.0053	82.7402	82.3785	1.6610e-01	1.9001e+00
38	TAF115136	84.9057	85.7459	85.4155	1.8788e-01	1.9002e+00
39	TAF120136	84.6008	85.0218	84.8110	9.8352e-02	1.9001e+00
40	TAF125136	83.5659	84.1962	83.9299	1.3890e-01	1.9001e+00
41	TAF130136	83.3289	83.9605	83.6466	1.6279e-01	1.9001e+00
42	TAF120048	82.9853	83.9392	83.4356	2.3229e-01	1.9001e+00
43	TAF130048	83.8164	84.3432	84.1194	1.2268e-01	1.9001e+00
44	TAF120224	83.2871	84.2342	83.8582	2.2833e-01	1.9001e+00
45	TAF130224	83.4484	83.8712	83.6559	1.0299e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5651	2.1162e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6924	1.0899e-01	1.9010e+00
48	TAI130048	83.3725	84.5300	84.0597	3.0228e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8100	1.8102e-01	1.9006e+00
50	TAI130224	83.3493	84.4042	83.8898	3.0642e-01	1.9001e+00
51	EMPTY	37.7675	38.6870	38.3024	1.9567e-01	1.9010e+00
52	TRR130000	83.0826	84.0279	83.6656	2.1218e-01	1.9001e+00
53	TSI000001	46.0451	46.6961	46.3417	1.4972e-01	1.9004e+00
54	TSI000002	61.1242	62.6211	61.7487	3.2109e-01	1.9000e+00
55	TSO000001	46.3760	47.4654	46.7764	2.6904e-01	1.9004e+00
56	TSO000002	69.9226	70.8794	70.4696	2.0476e-01	1.9000e+00
57	TAF020136	76.7774	77.5206	77.1367	1.9367e-01	1.9000e+00
58	TAF120312	84.9252	85.7638	85.3512	2.0665e-01	1.9002e+00
59	TAF130312	82.5024	83.1326	82.8498	1.5030e-01	1.9001e+00
60	EMPTY	0.3418	0.3467	0.3422	1.3508e-03	0.0000e+00
61	EMPTY	0.3564	0.3711	0.3569	2.2826e-03	0.0000e+00
62	EMPTY	0.3662	0.3711	0.3709	9.7615e-04	0.0000e+00
63	EMPTY	0.3760	0.3906	0.3862	2.2826e-03	0.0000e+00
64	EMPTY	0.2881	0.2930	0.2907	2.4621e-03	0.0000e+00
65	EMPTY	0.3076	0.3125	0.3121	1.3508e-03	0.0000e+00
66	EMPTY	0.3271	0.3320	0.3273	9.7615e-04	0.0000e+00
67	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3615	9.7615e-04	0.0000e+00
69	EMPTY	0.3809	0.3906	0.3811	1.3951e-03	0.0000e+00
70	EMPTY	0.3955	0.4004	0.3956	6.9754e-04	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4200	6.9754e-04	0.0000e+00
72	EMPTY	0.4346	0.4346	0.4346	0.0000e+00	0.0000e+00
73	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
74	EMPTY	0.4688	0.4736	0.4713	2.4621e-03	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4884	6.9754e-04	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5030	6.9754e-04	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5235	1.9883e-03	0.0000e+00
78	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
79	EMPTY	0.5713	0.5713	0.5713	0.0000e+00	0.0000e+00
80	PAN020136	-11.0966	-10.4862	-10.7540	1.2854e-01	8.7042e-01
81	PAN050136	-21.4651	-20.7021	-21.0416	1.5343e-01	1.6808e+00
82	PAN070136	-13.4602	-13.0024	-13.2469	1.1335e-01	8.7063e-01
83	PAN080136	-7.3403	-6.9589	-7.1146	7.7804e-02	8.7018e-01
84	PAN090136	-7.0232	-6.7180	-6.8472	6.8247e-02	8.7017e-01
85	PAN100136	-7.1547	-6.7732	-6.9818	7.9066e-02	8.7018e-01
86	PAN105136	-3.4113	-3.1824	-3.3132	5.1651e-02	8.7004e-01
87	PAN110136	-3.5603	-3.3314	-3.4575	6.1414e-02	8.7004e-01
88	PAN115136	-2.9500	-2.6448	-2.7911	6.7591e-02	8.7003e-01
89	PAN120136	-3.7000	-3.3948	-3.5754	6.1695e-02	8.7005e-01
90	PAN125136	-3.4315	-3.2026	-3.3428	7.1954e-02	8.7004e-01
91	PAN130136	-3.7063	-3.4774	-3.5755	5.6151e-02	8.7005e-01
92	PAN120048	-7.4030	-7.0215	-7.2192	7.6164e-02	8.7019e-01
93	PAN130048	-6.8817	-6.5765	-6.7245	7.5347e-02	8.7016e-01
94	PAN120224	-6.5297	-6.2245	-6.3864	8.0370e-02	8.7015e-01
95	PAN130224	-7.0830	-6.7778	-6.8993	6.4057e-02	8.7017e-01
96	PAN120312	-6.8174	-6.4359	-6.5932	9.1351e-02	8.7016e-01
97	PAN130312	-7.1206	-6.7391	-6.9369	8.5183e-02	8.7017e-01
98	PAB000136	40.4536	40.7283	40.5788	5.5889e-02	5.8881e-01
99	PAB100136	43.1599	43.3430	43.2487	4.6164e-02	5.8999e-01
100	PAB125136	43.7638	43.9469	43.8619	4.6720e-02	5.9027e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.4389	40.6830	40.5659	7.4583e-02	7.5683e-01
102	PRV000001	19.8194	19.9414	19.8293	3.3770e-02	7.5164e-01
103	PSR000001	43.6201	43.7422	43.7173	4.9708e-02	7.5792e-01
104	PFM000001	7.2880	7.7458	7.4917	1.1859e-01	5.0035e-01
105	PAN000136	-87.8000	-84.5957	-86.2679	8.1754e-01	4.9247e+00
106	PFM000002	7.3245	7.5948	7.4576	6.0878e-02	2.0087e-01
107	EMPTY	-0.0049	0.0049	0.0042	1.9934e-03	0.0000e+00
108	EMPTY	-6.5527	-5.0928	-5.8028	2.3451e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0006	1.6172e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1685	9.1482e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0793	6.2908e-02	8.1000e-01
114	VPW000003	-0.1153	0.2753	0.1438	1.0076e-01	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0763	9.7656e-02	8.1000e-01
116	VPW000005	0.0800	0.4706	0.1438	1.0076e-01	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1792	9.4620e-02	8.1000e-01
118	IPW000001	0.3998	2.3522	1.3959	9.8608e-01	8.1000e+00
119	IPW000002	0.3996	4.3022	1.4748	1.0584e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.8278	1.0188e+00	8.1000e+00
121	IPW000004	0.3000	0.7883	0.3797	1.8234e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.4199	2.6291e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.2399	2.4080e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0207	3.7993e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.9526e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0169	2.8370e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0136	3.7645e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0099	7.5986e-02	4.1000e+00
129	IHT000002	0.0706	0.4612	0.1264	9.7656e-02	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1296	1.0625e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1633	7.9328e-02	4.1000e+00
132	IHT000005	-0.1200	0.4659	0.1590	1.1276e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2105	9.7324e-02	4.1000e+00
134	IHT000007	0.0400	0.4306	0.1476	1.0594e-01	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1277	9.8153e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0275	9.3759e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1354	9.1305e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0598	9.0949e-02	4.1000e+00
139	IHT000012	-0.0375	0.1578	0.0741	9.7656e-02	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0385	1.0941e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1193	8.4477e-02	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0752	8.8965e-02	4.1000e+00
143	IHT000016	-0.2753	0.3106	0.0157	1.1362e-01	4.1000e+00
144	IHT000017	0.1694	1.1459	0.6836	2.3142e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.0962	1.0076e-01	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.0928	8.3122e-02	4.1000e+00
147	IHT000020	-0.0234	0.3672	0.0722	1.0640e-01	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.0858	1.5472e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0040	4.8662e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1002	9.0949e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	1.0165	8.6187e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3720	8.3705e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0920	6.1868e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1480	7.3601e-02	4.1000e+00
155	IHT000028	-0.0047	0.3859	0.0710	1.1146e-01	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.0957	1.0640e-01	4.1000e+00
157	IHT000030	-0.1953	0.3906	0.0837	1.1276e-01	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2234	9.2715e-02	4.1000e+00
159	IHT000032	-0.0353	0.5506	0.1560	9.3412e-02	4.1000e+00
160	IHT000033	-2.3659	-1.7800	-1.9833	8.8783e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1355	9.9303e-02	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1312	7.4477e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0999	8.2141e-02	4.1000e+00

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Velocity 1 = 0.003600 (ft/sec)

Velocity 2 = 0.001900 (ft/sec)

Pressure Drop = 0.002200 (psi)

Tsat in = 0.118317 (deg F) Tsat out = 0.142822 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0127	0.0163
1	TRF000002	0.0506	0.0662
2	TFM000001	0.0755	0.0965
3	TIN000001	0.0617	0.0720
4	TRV000001	0.0424	0.0515
5	TSR000001	0.0045	0.0058
6	TAO020136	0.0363	0.0434
7	TAO050136	0.0454	0.0542
8	TAO070136	0.0263	0.0336
9	TAO080136	0.0172	0.0208
10	TAO090136	0.0417	0.0500
11	TAO100136	0.0356	0.0427
12	TAO105136	0.0507	0.0590
13	EMPTY	0.0255	0.0635
14	TAO115136	0.0297	0.0358
15	EMPTY	0.0117	0.0335
16	TAO125136	0.0512	0.0602
17	TAO130136	0.0308	0.0371
18	EMPTY	23.2275	9.7774
19	TAO130048	0.0317	0.0375
20	TAO120224	0.0387	0.0477
21	EMPTY	2.4913	0.4885
22	TAO120312	0.0015	0.0018
23	TAO130312	0.0874	0.1045
24	EMPTY	0.0472	0.1257
25	TRT070000	0.0543	0.0648
26	TRT100000	0.0213	0.0252
27	TRT120000	0.0300	0.0358
28	TRT125000	0.0487	0.0562
29	EMPTY	0.0504	0.1329
30	EMPTY	0.0165	0.0413
31	TAF050136	0.0280	0.0330
32	TAF070136	0.0724	0.0863
33	TAF080136	0.0547	0.0656
34	TAF090136	0.0330	0.0396
35	TAF100136	0.0853	0.1019
36	TAF105136	0.0370	0.0438
37	TAF110136	0.0263	0.0319
38	TAF115136	0.0123	0.0144
39	TAF120136	0.0230	0.0271
40	TAF125136	0.0428	0.0510
41	TAF130136	0.0168	0.0201
42	TAF120048	0.0067	0.0080
43	TAF130048	0.0649	0.0772
44	TAF120224	0.0386	0.0460
45	TAF130224	0.0230	0.0275

#	Name	Abs Diff	%Diff
46	EMPTY	0.0148	0.0405
47	EMPTY	0.0215	0.0571
48	TAI130048	0.0158	0.0188
49	EMPTY	0.0330	0.1070
50	TAI130224	0.1035	0.1235
51	EMPTY	0.0153	0.0400
52	TRR130000	0.1438	0.1722
53	TSI000001	0.0006	0.0013
54	TSI000002	0.2548	0.4109
55	TSO000001	0.1906	0.4058
56	TSO000002	0.3533	0.5039
57	TAF020136	0.0049	0.0064
58	TAF120312	0.0797	0.0935
59	TAF130312	0.0257	0.0310
60	EMPTY	0.0005	0.1463
61	EMPTY	0.0004	0.1122
62	EMPTY	0.0003	0.0810
63	EMPTY	0.0005	0.1296
64	EMPTY	0.0011	0.3798
65	EMPTY	0.0004	0.1283
66	EMPTY	0.0002	0.0611
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0002	0.0554
69	EMPTY	0.0005	0.1314
70	EMPTY	0.0001	0.0253
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0001	0.0220
74	EMPTY	0.0018	0.3834
75	EMPTY	0.0001	0.0205
76	EMPTY	0.0002	0.0398
77	EMPTY	0.0006	0.1148
78	EMPTY	0.0001	0.0183
79	EMPTY	0.0002	0.0350
80	PAN020136	0.0038	0.0353
81	PAN050136	0.0221	0.1051
82	PAN070136	0.0256	0.1929
83	PAN080136	0.0075	0.1053
84	PAN090136	0.0010	0.0146
85	PAN100136	0.0035	0.0501
86	PAN105136	0.0118	0.3574
87	PAN110136	0.0193	0.5613
88	PAN115136	0.0093	0.3321
89	PAN120136	0.0067	0.1877
90	PAN125136	0.0303	0.9147
91	PAN130136	0.0011	0.0308
92	PAN120048	0.0024	0.0333
93	PAN130048	0.0030	0.0446
94	PAN120224	0.0014	0.0219
95	PAN130224	0.0055	0.0798
96	PAN120312	0.0200	0.3043
97	PAN130312	0.0098	0.1411
98	PAB000136	0.0803	0.1983
99	PAB100136	0.0897	0.2078
100	PAB125136	0.1036	0.2368

#	Name	Abs Diff	%Diff
101	PIN000001	0.1173	0.2900
102	PRV000001	0.0120	0.0605
103	PSR000001	0.1021	0.2341
104	PFM000001	0.0077	0.1029
105	PAN000136	0.0609	0.0706
106	PFM000002	0.0040	0.0537
107	EMPTY	0.0008	23.5294
108	EMPTY	0.0904	1.5340
109	EMPTY	0.0001	14.2857
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0087	5.4443
113	VPW000002	0.0273	25.6098
114	VPW000003	0.0221	13.3213
115	VPW000004	0.0022	2.9690
116	VPW000005	0.0221	13.3213
117	VPW000006	0.0347	16.2225
118	IPW000001	1.4248	50.5123
119	IPW000002	0.6849	86.7072
120	IPW000003	0.7935	76.7186
121	IPW000004	0.0765	16.7690
122	IPW000005	0.4976	54.2343
123	IPW000006	0.0887	58.6640
124	EMPTY	0.0019	10.1064
125	EMPTY	0.0003	2.2901
126	EMPTY	0.0014	9.0323
127	EMPTY	0.0002	1.4493
128	IHT000001	0.0190	65.7439
129	IHT000002	0.0223	14.9966
130	IHT000003	0.0216	20.0000
131	IHT000004	0.0080	5.1513
132	IHT000005	0.0134	9.2033
133	IHT000006	0.0115	5.1802
134	IHT000007	0.0139	10.3964
135	IHT000008	0.0060	4.4877
136	IHT000009	0.0087	24.0332
137	IHT000010	0.0270	24.9077
138	IHT000011	0.0222	27.0732
139	IHT000012	0.0061	8.9706
140	IHT000013	0.0068	15.0110
141	IHT000014	0.0077	6.0630
142	IHT000015	0.0008	1.0753
143	IHT000016	0.0019	13.7681
144	IHT000017	0.0014	0.2044
145	IHT000018	0.0325	25.2525
146	IHT000019	0.0124	11.7871
147	IHT000020	0.0253	53.9446
148	IHT000021	0.1931	21.6310
149	IHT000022	0.0079	202.5641
150	IHT000023	0.0207	17.1216
151	IHT000024	0.0046	0.4546
152	IHT000025	0.0075	1.9763
153	IHT000026	0.0114	11.0251
154	IHT000027	0.0153	11.5298
155	IHT000028	0.0093	15.0729

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0059	5.8071
157	IHT000030	0.0140	14.3296
158	IHT000031	0.0080	3.4572
159	IHT000032	0.0116	8.0332
160	IHT000033	0.0471	2.4326
161	IHT000034	0.0012	0.8778
162	IHT000035	0.0194	12.8818
163	IHT000036	0.0004	0.4020

Velocity 1 = 5.1781 (ft/sec) (+/- 7.0446 %)
 Velocity 2 = 5.1624 (ft/sec) (+/- 4.1205 %)
 Pressure drop = -4.0887 (psi)
 Tsat in = 268.3660 (deg F) Tsat out = 274.3099 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 713.9068 %)
 Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 778.9637 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.4860	78.1219	77.8082	1.7258e-01	1.9000e+00
1	TRF000002	76.2313	76.6535	76.4804	1.3277e-01	1.9000e+00
2	TFM000001	78.1366	78.9811	78.5400	1.9955e-01	1.9000e+00
3	TIN000001	85.6626	86.2929	85.9337	1.6180e-01	1.9002e+00
4	TRV000001	82.3078	82.9383	82.6668	1.6979e-01	1.9001e+00
5	TSR000001	77.0292	77.7676	77.4538	1.6016e-01	1.9000e+00
6	TAO020136	83.5162	84.2542	83.8556	1.9657e-01	1.9001e+00
7	TAO050136	83.7119	84.4472	84.0169	1.5619e-01	1.9001e+00
8	TAO070136	77.7628	78.5049	78.2483	1.9158e-01	1.9000e+00
9	TAO080136	82.5226	83.1528	82.9774	1.3670e-01	1.9001e+00
10	TAO090136	83.3151	84.2606	83.7924	2.2581e-01	1.9001e+00
11	TAO100136	83.4409	83.9672	83.6999	1.3309e-01	1.9001e+00
12	TAO105136	85.6318	86.5774	86.1340	1.9829e-01	1.9002e+00
13	EMPTY	40.0646	40.2940	40.1702	1.1550e-01	1.9011e+00
14	TAO115136	82.8534	83.8040	83.3585	2.3111e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9066	1.1502e-01	1.9008e+00
16	TAO125136	84.9573	85.5878	85.3334	1.5014e-01	1.9002e+00
17	TAO130136	82.6930	83.4269	83.0022	1.4431e-01	1.9001e+00
18	EMPTY	389.0112	419.8564	415.3317	8.9866e+00	2.0129e+00
19	TAO130048	84.0232	85.1762	84.6917	3.1448e-01	1.9001e+00
20	TAO120224	80.8534	81.6964	81.3317	2.0112e-01	1.9001e+00
21	EMPTY	-534.8831	-534.4941	-534.6030	1.7640e-01	2.0837e+00
22	TAO120312	83.3092	83.9407	83.6648	1.6317e-01	1.9001e+00
23	TAO130312	83.4181	84.0487	83.6771	1.4892e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5236	1.7643e-01	1.9009e+00
25	TRT070000	83.7835	84.5237	84.0732	1.6634e-01	1.9001e+00
26	TRT100000	84.4344	85.2741	84.8399	2.1201e-01	1.9001e+00
27	TRT120000	83.7685	84.3998	84.1366	1.6214e-01	1.9001e+00
28	TRT125000	86.5622	87.2941	86.8911	1.7926e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9330	1.3173e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9316	1.9718e-01	1.9011e+00
31	TAF050136	84.7224	85.4571	85.1317	1.9442e-01	1.9002e+00
32	TAF070136	83.7247	84.7718	84.2500	1.9200e-01	1.9001e+00
33	TAF080136	83.3339	83.9634	83.6598	1.4720e-01	1.9001e+00
34	TAF090136	83.1394	84.2958	83.6671	2.5868e-01	1.9001e+00
35	TAF100136	83.7613	84.3930	84.0415	1.6417e-01	1.9001e+00
36	TAF105136	84.1544	85.3056	84.7677	2.6694e-01	1.9001e+00
37	TAF110136	82.3200	83.0552	82.5958	1.6010e-01	1.9001e+00
38	TAF115136	85.3251	86.0602	85.6675	1.9284e-01	1.9002e+00
39	TAF120136	84.7062	85.3357	85.0729	1.3789e-01	1.9002e+00
40	TAF125136	83.7750	84.5101	84.1636	1.6451e-01	1.9001e+00
41	TAF130136	83.5391	84.1707	83.8989	1.4430e-01	1.9001e+00
42	TAF120048	83.1991	84.1496	83.6954	2.3052e-01	1.9001e+00
43	TAF130048	84.0274	84.6583	84.3784	1.4035e-01	1.9001e+00
44	TAF120224	83.7080	84.5499	84.1057	1.9857e-01	1.9001e+00
45	TAF130224	83.6616	84.1878	83.9373	1.1825e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5937	2.3835e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6708	1.1468e-01	1.9010e+00
48	TAI130048	83.8989	85.0555	84.3679	2.6474e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8810	2.1768e-01	1.9006e+00
50	TAI130224	83.5604	84.6145	84.0687	3.0097e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2641	1.6328e-01	1.9010e+00
52	TRR130000	83.3980	84.3425	83.8703	2.2461e-01	1.9001e+00
53	TSI000001	45.6119	46.4797	46.0826	1.9048e-01	1.9004e+00
54	TSI000002	60.6967	61.7666	61.2639	2.5226e-01	1.9001e+00
55	TSO000001	45.7226	46.9197	46.3735	2.0454e-01	1.9004e+00
56	TSO000002	69.9227	70.6674	70.2653	1.9138e-01	1.9000e+00
57	TAF020136	76.8829	77.6266	77.2632	1.6904e-01	1.9000e+00
58	TAF120312	85.0299	86.0790	85.5148	2.5829e-01	1.9002e+00
59	TAF130312	82.7120	83.5526	83.1136	1.7714e-01	1.9001e+00
60	EMPTY	0.3418	0.3467	0.3465	9.6655e-04	0.0000e+00
61	EMPTY	0.3613	0.3613	0.3613	0.0000e+00	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3757	1.1714e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3905	6.9053e-04	0.0000e+00
64	EMPTY	0.2881	0.2930	0.2929	6.9053e-04	0.0000e+00
65	EMPTY	0.3076	0.3174	0.3126	1.2041e-03	0.0000e+00
66	EMPTY	0.3271	0.3320	0.3292	2.4344e-03	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3475	1.8082e-03	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3629	2.3008e-03	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3811	9.6655e-04	0.0000e+00
70	EMPTY	0.3955	0.4004	0.3974	2.3941e-03	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4214	2.2603e-03	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4351	1.4797e-03	0.0000e+00
73	EMPTY	0.4541	0.4590	0.4559	2.3675e-03	0.0000e+00
74	EMPTY	0.4736	0.4736	0.4736	0.0000e+00	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4927	1.4797e-03	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5067	2.0432e-03	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5271	1.1714e-03	0.0000e+00
78	EMPTY	0.5469	0.5518	0.5494	2.4642e-03	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5724	2.0432e-03	0.0000e+00
80	PAN020136	-14.3772	-13.7668	-14.1529	1.2466e-01	8.7072e-01
81	PAN050136	-27.5686	-26.9583	-27.3153	1.4979e-01	1.6814e+00
82	PAN070136	-17.9615	-17.5801	-17.7632	9.3758e-02	8.7113e-01
83	PAN080136	-9.3240	-9.0188	-9.1165	8.0151e-02	8.7030e-01
84	PAN090136	-9.0831	-8.7780	-8.9427	6.6046e-02	8.7029e-01
85	PAN100136	-9.2146	-8.9094	-9.0941	6.1828e-02	8.7030e-01
86	PAN105136	-4.4794	-4.2505	-4.3893	5.7031e-02	8.7007e-01
87	PAN110136	-4.7047	-4.3995	-4.5384	7.5022e-02	8.7007e-01
88	PAN115136	-4.2469	-4.0181	-4.0791	5.7673e-02	8.7006e-01
89	PAN120136	-4.6918	-4.3866	-4.5224	6.5919e-02	8.7007e-01
90	PAN125136	-4.4996	-4.2708	-4.3821	6.9293e-02	8.7007e-01
91	PAN130136	-4.6981	-4.3929	-4.5455	7.2297e-02	8.7007e-01
92	PAN120048	-9.6155	-9.3866	-9.4781	6.1655e-02	8.7032e-01
93	PAN130048	-8.8654	-8.5602	-8.7662	5.8185e-02	8.7028e-01
94	PAN120224	-8.8185	-8.6659	-8.7239	5.0089e-02	8.7027e-01
95	PAN130224	-9.1429	-8.8378	-9.0132	7.1054e-02	8.7029e-01
96	PAN120312	-8.9536	-8.6484	-8.7873	9.0784e-02	8.7028e-01
97	PAN130312	-9.1805	-8.8754	-9.0539	7.3292e-02	8.7029e-01
98	PAB000136	40.5452	40.7741	40.6743	5.2062e-02	5.8885e-01
99	PAB100136	44.0297	44.1670	44.0791	3.7952e-02	5.9038e-01
100	PAB125136	44.8167	44.9540	44.8991	4.4353e-02	5.9076e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.4389	40.6830	40.5951	6.5436e-02	7.5684e-01
102	PRV000001	19.8194	19.9414	19.8218	1.7263e-02	7.5164e-01
103	PSR000001	44.8409	44.9629	44.8457	2.4164e-02	7.5833e-01
104	PFM000001	3.9006	4.2668	4.0782	7.9362e-02	5.0010e-01
105	PAN000136	-114.8081	-111.1460	-113.1968	7.5835e-01	4.9281e+00
106	PFM000002	3.9963	4.1146	4.0531	3.3050e-02	2.0026e-01
107	EMPTY	-0.0049	0.0049	0.0009	3.9075e-03	0.0000e+00
108	EMPTY	-6.3672	-4.5703	-5.8096	2.3508e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1364	8.2864e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.1027	7.9017e-02	8.1000e-01
114	VPW000003	0.0800	0.2753	0.1503	9.4702e-02	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0819	1.0440e-01	8.1000e-01
116	VPW000005	0.0800	0.4706	0.1737	1.1327e-01	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1631	9.6332e-02	8.1000e-01
118	IPW000001	0.3998	4.3045	2.4693	1.1439e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.5557	1.2366e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.1513	8.8092e-01	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.4758	2.5648e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.6929	2.6097e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	-0.0246	2.8266e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0178	3.7899e-03	0.0000e+00
125	EMPTY	-0.0146	0.0000	-0.0125	2.9856e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0147	3.0389e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0138	3.6500e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0172	1.0705e-01	4.1000e+00
129	IHT000002	-0.1247	0.2659	0.1409	1.0259e-01	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1080	1.0507e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1788	7.5283e-02	4.1000e+00
132	IHT000005	0.0753	0.4659	0.1613	1.0559e-01	4.1000e+00
133	IHT000006	0.0072	0.5931	0.1986	1.0799e-01	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1377	9.8648e-02	4.1000e+00
135	IHT000008	0.0400	0.4306	0.1220	1.0507e-01	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0245	9.5112e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1163	9.6655e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0859	9.7935e-02	4.1000e+00
139	IHT000012	-0.0375	0.1578	0.0953	9.2034e-02	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0453	9.6976e-02	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1427	8.8321e-02	4.1000e+00
142	IHT000015	-0.1600	0.4259	0.0744	9.6655e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0059	9.7935e-02	4.1000e+00
144	IHT000017	0.1694	1.1459	0.6459	2.2027e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.0858	9.5765e-02	4.1000e+00
146	IHT000019	-0.1247	0.0706	-0.0856	7.8918e-02	4.1000e+00
147	IHT000020	-0.0234	0.3672	0.0313	9.6976e-02	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.0919	1.6852e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0000	3.9459e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1092	8.6541e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0236	8.1729e-02	4.1000e+00
152	IHT000025	-0.5553	-0.3600	-0.3991	7.8918e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0917	7.2866e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1209	8.8233e-02	4.1000e+00
155	IHT000028	-0.2000	0.1906	0.0734	1.0440e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.1172	9.6655e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0938	9.8569e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2314	9.2456e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1483	7.2866e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9831	9.6332e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1445	9.5112e-02	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1428	6.6498e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.1112	1.0705e-01	4.1000e+00

Test: Nov13_13

sum2

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Velocity 1 = 5.1745 (ft/sec) (+/- 7.0521 %)
 Velocity 2 = 5.1504 (ft/sec) (+/- 4.1262 %)
 Pressure drop = -4.0888 (psi)
 Tsat in = 268.2299 (deg F) Tsat out = 274.1530 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 853.2844 %)
 Phi outer = 0.0003 (kBtu/hr-ft2) (+/- 635.2191 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.4860	78.1219	77.7715	1.8127e-01	1.9000e+00
1	TRF000002	76.2313	76.6535	76.5286	1.1334e-01	1.9000e+00
2	TFM000001	78.0312	78.8758	78.5631	2.3383e-01	1.9000e+00
3	TIN000001	85.4525	86.3981	85.9863	1.9873e-01	1.9002e+00
4	TRV000001	82.2022	83.0433	82.6227	2.0110e-01	1.9001e+00
5	TSR000001	77.1347	77.7687	77.4451	1.5600e-01	1.9000e+00
6	TAO020136	83.3054	84.4643	83.8344	2.2402e-01	1.9001e+00
7	TAO050136	83.7119	84.3423	84.0572	1.7143e-01	1.9001e+00
8	TAO070136	77.7628	78.8223	78.2083	2.3395e-01	1.9000e+00
9	TAO080136	82.6261	83.3618	83.0186	1.8280e-01	1.9001e+00
10	TAO090136	83.3151	84.1562	83.7956	2.0352e-01	1.9001e+00
11	TAO100136	83.4409	84.1772	83.7308	1.4009e-01	1.9001e+00
12	TAO105136	85.7366	86.6823	86.1356	2.3977e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.1911	1.3295e-01	1.9011e+00
14	TAO115136	82.9590	83.8046	83.3407	2.1443e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9234	1.1095e-01	1.9008e+00
16	TAO125136	84.9573	85.6926	85.3367	1.8042e-01	1.9002e+00
17	TAO130136	82.6930	83.4269	83.0169	1.5397e-01	1.9001e+00
18	EMPTY	304.7008	419.8564	409.0814	2.3987e+01	2.0096e+00
19	TAO130048	83.9187	85.1762	84.6775	3.5818e-01	1.9001e+00
20	TAO120224	80.9586	81.8014	81.3607	2.0368e-01	1.9001e+00
21	EMPTY	-537.9990	-537.2193	-537.6251	1.5834e-01	2.0857e+00
22	TAO120312	83.3087	84.0462	83.7643	1.8156e-01	1.9001e+00
23	TAO130312	83.3132	84.1536	83.7551	1.8826e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.5844	1.7557e-01	1.9010e+00
25	TRT070000	83.7835	84.4179	84.1092	1.7212e-01	1.9001e+00
26	TRT100000	84.4344	85.2741	84.8224	1.8205e-01	1.9001e+00
27	TRT120000	83.8734	84.5047	84.1569	1.5802e-01	1.9001e+00
28	TRT125000	86.5622	87.3993	86.9594	1.8240e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9317	1.1498e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.8914	2.0165e-01	1.9011e+00
31	TAF050136	84.7224	85.5619	85.1506	1.7633e-01	1.9002e+00
32	TAF070136	83.8296	84.6664	84.2116	1.6767e-01	1.9001e+00
33	TAF080136	83.3351	84.0688	83.6791	1.5444e-01	1.9001e+00
34	TAF090136	83.0338	84.1903	83.6606	2.6969e-01	1.9001e+00
35	TAF100136	83.6562	84.2881	84.0535	1.3804e-01	1.9001e+00
36	TAF105136	84.2593	85.2008	84.8270	2.3924e-01	1.9001e+00
37	TAF110136	82.2149	82.9513	82.6120	1.4114e-01	1.9001e+00
38	TAF115136	85.2202	86.1644	85.6873	1.7535e-01	1.9002e+00
39	TAF120136	84.8099	85.3357	85.0867	1.3343e-01	1.9002e+00
40	TAF125136	83.7750	84.5101	84.1586	1.5678e-01	1.9001e+00
41	TAF130136	83.6441	84.2756	83.9062	1.5798e-01	1.9001e+00
42	TAF120048	83.4090	84.3615	83.7833	2.6191e-01	1.9001e+00
43	TAF130048	84.1317	84.6583	84.3920	1.3769e-01	1.9001e+00
44	TAF120224	83.6025	84.5493	84.1437	2.0142e-01	1.9001e+00
45	TAF130224	83.6616	84.1878	83.9471	1.2158e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5463	2.4519e-01	1.9009e+00
47	EMPTY	37.3074	37.7675	37.6125	1.3599e-01	1.9010e+00
48	TAI130048	83.7934	85.0555	84.3494	3.1256e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8390	1.8351e-01	1.9006e+00
50	TAI130224	83.4548	84.6146	84.0553	3.1646e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2695	1.7974e-01	1.9010e+00
52	TRR130000	83.3974	84.4479	84.0018	2.5225e-01	1.9001e+00
53	TSI000001	45.7201	46.3714	46.0214	1.6160e-01	1.9004e+00
54	TSI000002	60.4823	61.7666	61.2273	3.0267e-01	1.9001e+00
55	TSO000001	45.9408	46.8110	46.3243	1.8201e-01	1.9004e+00
56	TSO000002	69.7099	70.5608	70.2070	2.0532e-01	1.9000e+00
57	TAF020136	76.8829	77.6261	77.2773	1.8899e-01	1.9000e+00
58	TAF120312	85.0299	86.1837	85.6400	2.9932e-01	1.9002e+00
59	TAF130312	82.7120	83.4481	83.1474	1.6334e-01	1.9001e+00
60	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
61	EMPTY	0.3613	0.3613	0.3613	0.0000e+00	0.0000e+00
62	EMPTY	0.3711	0.3809	0.3760	9.9670e-04	0.0000e+00
63	EMPTY	0.3906	0.3955	0.3915	1.9103e-03	0.0000e+00
64	EMPTY	0.2881	0.2930	0.2929	6.9754e-04	0.0000e+00
65	EMPTY	0.3125	0.3125	0.3125	0.0000e+00	0.0000e+00
66	EMPTY	0.3271	0.3320	0.3306	2.2287e-03	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3487	2.4247e-03	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3637	2.4662e-03	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3814	1.4934e-03	0.0000e+00
70	EMPTY	0.3955	0.4004	0.3993	2.0584e-03	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4226	2.4538e-03	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4358	2.1215e-03	0.0000e+00
73	EMPTY	0.4541	0.4590	0.4578	2.1215e-03	0.0000e+00
74	EMPTY	0.4736	0.4736	0.4736	0.0000e+00	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4923	1.9103e-03	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5074	1.3508e-03	0.0000e+00
77	EMPTY	0.5273	0.5273	0.5273	0.0000e+00	0.0000e+00
78	EMPTY	0.5469	0.5518	0.5499	2.4037e-03	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5734	2.4414e-03	0.0000e+00
80	PAN020136	-14.3772	-13.9194	-14.1499	1.2506e-01	8.7072e-01
81	PAN050136	-27.5686	-26.9583	-27.3039	1.3496e-01	1.6814e+00
82	PAN070136	-17.8853	-17.5801	-17.7436	9.2134e-02	8.7113e-01
83	PAN080136	-9.2477	-9.0188	-9.1075	7.0248e-02	8.7030e-01
84	PAN090136	-9.0831	-8.8542	-8.9617	6.4057e-02	8.7029e-01
85	PAN100136	-9.2146	-8.9857	-9.0838	5.8270e-02	8.7030e-01
86	PAN105136	-4.5557	-4.3268	-4.3735	6.1935e-02	8.7007e-01
87	PAN110136	-4.7047	-4.3995	-4.5194	6.4211e-02	8.7007e-01
88	PAN115136	-4.1707	-3.9418	-4.0835	6.0316e-02	8.7006e-01
89	PAN120136	-4.6155	-4.3866	-4.5330	5.3580e-02	8.7007e-01
90	PAN125136	-4.4996	-4.1945	-4.3860	7.1574e-02	8.7007e-01
91	PAN130136	-4.6981	-4.3929	-4.5564	7.1366e-02	8.7007e-01
92	PAN120048	-9.5392	-9.3866	-9.4925	4.6241e-02	8.7032e-01
93	PAN130048	-8.8654	-8.6365	-8.7642	5.6982e-02	8.7028e-01
94	PAN120224	-8.8948	-8.5896	-8.7064	6.0520e-02	8.7027e-01
95	PAN130224	-9.1429	-8.9141	-9.0277	7.1574e-02	8.7029e-01
96	PAN120312	-8.9536	-8.6484	-8.7746	7.2297e-02	8.7028e-01
97	PAN130312	-9.1805	-8.8754	-9.0575	5.9945e-02	8.7029e-01
98	PAB000136	40.4994	40.6825	40.5816	4.2799e-02	5.8881e-01
99	PAB100136	43.8923	44.0754	43.9820	3.8480e-02	5.9033e-01
100	PAB125136	44.7251	44.8624	44.7830	4.3603e-02	5.9071e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.4389	40.6830	40.5111	7.0117e-02	7.5681e-01
102	PRV000001	19.8194	19.9414	19.8293	3.3770e-02	7.5164e-01
103	PSR000001	44.7188	44.8409	44.7536	5.5717e-02	7.5830e-01
104	PFM000001	3.9006	4.2668	4.0725	9.4616e-02	5.0010e-01
105	PAN000136	-114.3503	-111.6038	-113.2012	6.5490e-01	4.9281e+00
106	PFM000002	3.9794	4.1315	4.0339	3.7025e-02	2.0025e-01
107	EMPTY	-0.0049	0.0049	0.0013	3.6993e-03	0.0000e+00
108	EMPTY	-6.4160	-4.9316	-5.7227	2.6267e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0002	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	0.1247	0.3200	0.2164	9.8483e-02	8.1000e-01
113	VPW000002	0.0753	0.2706	0.1112	7.6412e-02	8.1000e-01
114	VPW000003	0.0800	0.4706	0.1597	1.1219e-01	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0723	1.1319e-01	8.1000e-01
116	VPW000005	-0.1153	0.4706	0.1956	1.2556e-01	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1992	1.0746e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	2.5514	1.2756e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.1607	1.1703e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	0.8727	1.1941e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.3498	2.4907e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.6590	3.0067e-01	2.0000e+00
123	IPW000006	-0.7766	0.6883	-0.0691	3.1615e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0195	2.9901e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0120	2.4538e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0148	2.9833e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0149	3.2155e-03	0.0000e+00
128	IHT000001	-0.0141	0.3766	0.0338	9.3759e-02	4.1000e+00
129	IHT000002	0.0706	0.2659	0.1703	9.8648e-02	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1535	1.1658e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1792	9.4620e-02	4.1000e+00
132	IHT000005	0.0753	0.2706	0.1510	9.6150e-02	4.1000e+00
133	IHT000006	0.0072	0.5931	0.2424	9.7490e-02	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1317	9.8483e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1516	9.7656e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0474	8.9148e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1035	9.5812e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0917	9.8483e-02	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.0781	1.1219e-01	4.1000e+00
140	IHT000013	-0.2047	0.3813	0.0504	1.0701e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1313	1.0424e-01	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0951	9.0949e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0157	9.8648e-02	4.1000e+00
144	IHT000017	0.3647	0.9506	0.6517	1.7425e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.1122	9.3759e-02	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.0848	9.7490e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0802	9.8483e-02	4.1000e+00
148	IHT000021	-1.1934	-0.8028	-0.9941	1.0911e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0000	5.6382e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1401	8.2141e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	1.0045	7.5986e-02	4.1000e+00
152	IHT000025	-0.5553	0.0306	-0.3640	1.1616e-01	4.1000e+00
153	IHT000026	0.0800	0.2753	0.0959	5.4032e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1441	6.7148e-02	4.1000e+00
155	IHT000028	-0.0047	0.1906	0.0671	9.5132e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.1156	9.6990e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0877	9.8153e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2234	7.3601e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1520	6.8582e-02	4.1000e+00
160	IHT000033	-1.9753	-1.7800	-1.9394	7.6412e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1355	9.9303e-02	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1391	8.3705e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0999	8.2141e-02	4.1000e+00

Velocity 1 = 0.003600 (ft/sec)
 Velocity 2 = 0.012000 (ft/sec)
 Pressure Drop = 0.000100 (psi)
 Tsat in = 0.136108 (deg F) Tsat out = 0.156891 (deg F)
 Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0367	0.0472
1	TRF000002	0.0482	0.0630
2	TFM000001	0.0231	0.0294
3	TIN000001	0.0526	0.0612
4	TRV000001	0.0441	0.0533
5	TSR000001	0.0087	0.0112
6	TAO020136	0.0212	0.0253
7	TAO050136	0.0403	0.0480
8	TAO070136	0.0400	0.0511
9	TAO080136	0.0412	0.0497
10	TAO090136	0.0032	0.0038
11	TAO100136	0.0309	0.0369
12	TAO105136	0.0016	0.0019
13	EMPTY	0.0209	0.0520
14	TAO115136	0.0178	0.0214
15	EMPTY	0.0168	0.0481
16	TAO125136	0.0033	0.0039
17	TAO130136	0.0147	0.0177
18	EMPTY	6.2503	1.5049
19	TAO130048	0.0142	0.0168
20	TAO120224	0.0290	0.0357
21	EMPTY	3.0221	0.5653
22	TAO120312	0.0995	0.1189
23	TAO130312	0.0780	0.0932
24	EMPTY	0.0608	0.1620
25	TRT070000	0.0360	0.0428
26	TRT100000	0.0175	0.0206
27	TRT120000	0.0203	0.0241
28	TRT125000	0.0683	0.0786
29	EMPTY	0.0013	0.0034
30	EMPTY	0.0402	0.1007
31	TAF050136	0.0189	0.0222
32	TAF070136	0.0384	0.0456
33	TAF080136	0.0193	0.0231
34	TAF090136	0.0065	0.0078
35	TAF100136	0.0120	0.0143
36	TAF105136	0.0593	0.0700
37	TAF110136	0.0162	0.0196
38	TAF115136	0.0198	0.0231
39	TAF120136	0.0138	0.0162
40	TAF125136	0.0050	0.0059
41	TAF130136	0.0073	0.0087
42	TAF120048	0.0879	0.1050
43	TAF130048	0.0136	0.0161
44	TAF120224	0.0380	0.0452
45	TAF130224	0.0098	0.0117

#	Name	Abs Diff	%Diff
46	EMPTY	0.0474	0.1295
47	EMPTY	0.0583	0.1548
48	TAI130048	0.0185	0.0219
49	EMPTY	0.0420	0.1360
50	TAI130224	0.0134	0.0159
51	EMPTY	0.0054	0.0141
52	TRR130000	0.1315	0.1568
53	TSI000001	0.0612	0.1328
54	TSI000002	0.0366	0.0597
55	TSO000001	0.0492	0.1061
56	TSO000002	0.0583	0.0830
57	TAF020136	0.0141	0.0182
58	TAF120312	0.1252	0.1464
59	TAF130312	0.0338	0.0407
60	EMPTY	0.0002	0.0577
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0003	0.0798
63	EMPTY	0.0010	0.2561
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0001	0.0320
66	EMPTY	0.0014	0.4253
67	EMPTY	0.0012	0.3453
68	EMPTY	0.0008	0.2205
69	EMPTY	0.0003	0.0787
70	EMPTY	0.0019	0.4781
71	EMPTY	0.0012	0.2848
72	EMPTY	0.0007	0.1609
73	EMPTY	0.0019	0.4168
74	EMPTY	0.0000	0.0000
75	EMPTY	0.0004	0.0812
76	EMPTY	0.0007	0.1381
77	EMPTY	0.0002	0.0379
78	EMPTY	0.0005	0.0910
79	EMPTY	0.0010	0.1747
80	PAN020136	0.0030	0.0212
81	PAN050136	0.0114	0.0417
82	PAN070136	0.0196	0.1103
83	PAN080136	0.0090	0.0987
84	PAN090136	0.0190	0.2125
85	PAN100136	0.0103	0.1133
86	PAN105136	0.0158	0.3600
87	PAN110136	0.0190	0.4187
88	PAN115136	0.0044	0.1079
89	PAN120136	0.0106	0.2344
90	PAN125136	0.0039	0.0890
91	PAN130136	0.0109	0.2398
92	PAN120048	0.0144	0.1519
93	PAN130048	0.0020	0.0228
94	PAN120224	0.0175	0.2006
95	PAN130224	0.0145	0.1609
96	PAN120312	0.0127	0.1445
97	PAN130312	0.0036	0.0398
98	PAB000136	0.0927	0.2279
99	PAB100136	0.0971	0.2203
100	PAB125136	0.1161	0.2586

#	Name	Abs Diff	%Diff
101	PIN000001	0.0840	0.2069
102	PRV000001	0.0075	0.0378
103	PSR000001	0.0921	0.2054
104	PFM000001	0.0057	0.1398
105	PAN000136	0.0044	0.0039
106	PFM000002	0.0192	0.4737
107	EMPTY	0.0004	44.4444
108	EMPTY	0.0869	1.4958
109	EMPTY	0.0001	33.3333
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0800	58.6510
113	VPW000002	0.0085	8.2765
114	VPW000003	0.0094	6.2542
115	VPW000004	0.0096	11.7216
116	VPW000005	0.0219	12.6079
117	VPW000006	0.0361	22.1337
118	IPW000001	0.0821	3.3248
119	IPW000002	0.3950	71.0815
120	IPW000003	0.2786	24.1987
121	IPW000004	0.1260	26.4817
122	IPW000005	0.0339	4.8925
123	IPW000006	0.0445	180.8943
124	EMPTY	0.0017	9.5506
125	EMPTY	0.0005	4.0000
126	EMPTY	0.0001	0.6803
127	EMPTY	0.0011	7.9710
128	IHT000001	0.0166	96.5116
129	IHT000002	0.0294	20.8659
130	IHT000003	0.0455	42.1296
131	IHT000004	0.0004	0.2237
132	IHT000005	0.0103	6.3856
133	IHT000006	0.0438	22.0544
134	IHT000007	0.0060	4.3573
135	IHT000008	0.0296	24.2623
136	IHT000009	0.0229	93.4694
137	IHT000010	0.0128	11.0060
138	IHT000011	0.0058	6.7520
139	IHT000012	0.0172	18.0483
140	IHT000013	0.0051	11.2583
141	IHT000014	0.0114	7.9888
142	IHT000015	0.0207	27.8226
143	IHT000016	0.0098	166.1017
144	IHT000017	0.0058	0.8980
145	IHT000018	0.0264	30.7692
146	IHT000019	0.0008	0.9346
147	IHT000020	0.0489	156.2300
148	IHT000021	0.0978	8.9569
149	IHT000022	0.0000	0.0000
150	IHT000023	0.0309	28.2967
151	IHT000024	0.0191	1.8660
152	IHT000025	0.0351	8.7948
153	IHT000026	0.0042	4.5801
154	IHT000027	0.0232	19.1894
155	IHT000028	0.0063	8.5831

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0016	1.3652
157	IHT000030	0.0061	6.5032
158	IHT000031	0.0080	3.4572
159	IHT000032	0.0037	2.4949
160	IHT000033	0.0437	2.2036
161	IHT000034	0.0090	6.2284
162	IHT000035	0.0037	2.5910
163	IHT000036	0.0113	10.1619

Velocity 1 = 4.0474 (ft/sec) (+/- 10.7122 %)
Velocity 2 = 4.0223 (ft/sec) (+/- 5.0698 %)
Pressure drop = -4.5725 (psi)
Tsat in = 268.0858 (deg F) Tsat out = 274.6590 (deg F)
Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 995.5222 %)
Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 711.2612 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.4860	78.1219	77.8888	1.9270e-01	1.9000e+00
1	TRF000002	76.4424	76.8646	76.6113	1.2062e-01	1.9000e+00
2	TFM000001	78.5587	79.4023	78.9362	2.1190e-01	1.9001e+00
3	TIN000001	85.8727	86.7128	86.2908	1.8441e-01	1.9002e+00
4	TRV000001	82.5175	83.3579	82.9397	2.2393e-01	1.9001e+00
5	TSR000001	77.0303	77.8741	77.5174	1.8577e-01	1.9000e+00
6	TAO020136	83.6211	84.5697	84.0956	2.4761e-01	1.9001e+00
7	TAO050136	84.0272	84.6563	84.3479	1.4608e-01	1.9001e+00
8	TAO070136	77.8688	79.1397	78.5108	2.6163e-01	1.9000e+00
9	TAO080136	83.0452	83.6757	83.3292	1.5181e-01	1.9001e+00
10	TAO090136	83.6305	84.3660	84.1031	1.6324e-01	1.9001e+00
11	TAO100136	83.6508	84.5971	84.0234	1.5644e-01	1.9001e+00
12	TAO105136	86.0515	86.7876	86.5079	1.9295e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.1748	1.2471e-01	1.9011e+00
14	TAO115136	83.1706	84.1209	83.6710	1.8334e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9389	1.0463e-01	1.9008e+00
16	TAO125136	85.3766	85.9022	85.6606	1.6051e-01	1.9002e+00
17	TAO130136	82.9030	83.4264	83.1157	1.3647e-01	1.9001e+00
18	EMPTY	419.8564	419.8564	419.8562	1.8496e-04	2.0153e+00
19	TAO130048	84.6517	85.2810	84.9516	1.6006e-01	1.9002e+00
20	TAO120224	81.2745	82.0124	81.6855	1.9658e-01	1.9001e+00
21	EMPTY	-556.4529	-556.0577	-556.0739	7.8243e-02	2.0980e+00
22	TAO120312	83.7297	84.3615	84.0562	1.7945e-01	1.9001e+00
23	TAO130312	83.5237	84.1542	83.8494	1.6348e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5420	1.6426e-01	1.9009e+00
25	TRT070000	84.2065	84.7345	84.4324	1.5524e-01	1.9001e+00
26	TRT100000	84.7495	85.4836	85.1462	1.9467e-01	1.9002e+00
27	TRT120000	84.1884	84.7147	84.4896	1.3936e-01	1.9001e+00
28	TRT125000	86.6674	87.7122	87.2751	1.9663e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9146	1.2079e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9270	1.9670e-01	1.9011e+00
31	TAF050136	85.0366	85.8758	85.4753	1.6778e-01	1.9002e+00
32	TAF070136	84.0379	84.8766	84.5973	2.0137e-01	1.9001e+00
33	TAF080136	83.7525	84.2774	84.0153	1.4867e-01	1.9001e+00
34	TAF090136	83.4551	84.4009	83.9907	2.6292e-01	1.9001e+00
35	TAF100136	84.0767	84.7084	84.3655	1.5881e-01	1.9001e+00
36	TAF105136	84.6786	85.5115	85.1312	2.0089e-01	1.9002e+00
37	TAF110136	82.6346	83.2657	82.9482	1.7443e-01	1.9001e+00
38	TAF115136	85.5347	86.4786	86.0198	2.2011e-01	1.9002e+00
39	TAF120136	85.1255	85.6495	85.4037	1.2493e-01	1.9002e+00
40	TAF125136	83.9854	84.8238	84.4985	1.6851e-01	1.9001e+00
41	TAF130136	83.9592	84.6952	84.2142	1.7657e-01	1.9001e+00
42	TAF120048	83.6211	84.5735	84.0974	2.2551e-01	1.9001e+00
43	TAF130048	84.3421	84.9734	84.7233	1.2738e-01	1.9001e+00
44	TAF120224	84.1282	84.9698	84.4800	1.9540e-01	1.9001e+00
45	TAF130224	83.8720	84.3996	84.2499	1.2964e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.6122	2.0005e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.7169	9.6255e-02	1.9010e+00
48	TAI130048	84.1088	85.4759	84.7464	3.0741e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8952	1.6610e-01	1.9006e+00
50	TAI130224	83.7714	85.0362	84.4101	3.3362e-01	1.9001e+00
51	EMPTY	37.7675	38.6870	38.2503	1.9840e-01	1.9010e+00
52	TRR130000	83.7127	84.6575	84.3026	2.4166e-01	1.9001e+00
53	TSI000001	45.9372	46.5879	46.2517	1.7962e-01	1.9004e+00
54	TSI000002	61.0176	62.0878	61.4437	2.3420e-01	1.9000e+00
55	TSO000001	46.1573	46.8110	46.5168	1.8297e-01	1.9004e+00
56	TSO000002	70.1348	71.3051	70.5970	2.4743e-01	1.9000e+00
57	TAF020136	76.9890	77.6274	77.3646	1.6086e-01	1.9000e+00
58	TAF120312	85.3449	86.3930	85.8920	2.8108e-01	1.9002e+00
59	TAF130312	83.1321	83.6576	83.4283	1.5110e-01	1.9001e+00
60	EMPTY	0.3467	0.3516	0.3511	1.4797e-03	0.0000e+00
61	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
62	EMPTY	0.3760	0.3857	0.3805	1.6624e-03	0.0000e+00
63	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2935	1.4797e-03	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3159	2.2603e-03	0.0000e+00
66	EMPTY	0.3271	0.3369	0.3320	9.8648e-04	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3515	6.9053e-04	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3660	9.6655e-04	0.0000e+00
69	EMPTY	0.3809	0.3906	0.3854	1.5314e-03	0.0000e+00
70	EMPTY	0.3955	0.4004	0.4003	6.9053e-04	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4246	9.6655e-04	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4396	6.9053e-04	0.0000e+00
73	EMPTY	0.4590	0.4590	0.4590	0.0000e+00	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4737	6.9053e-04	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4934	9.6655e-04	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5080	9.6655e-04	0.0000e+00
77	EMPTY	0.5273	0.5273	0.5273	0.0000e+00	0.0000e+00
78	EMPTY	0.5469	0.5566	0.5518	9.8648e-04	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5760	9.6655e-04	0.0000e+00
80	PAN020136	-15.9794	-15.5216	-15.7444	1.1204e-01	8.7089e-01
81	PAN050136	-30.6204	-30.1626	-30.3121	1.2518e-01	1.6817e+00
82	PAN070136	-20.0978	-19.7163	-19.9254	9.4779e-02	8.7142e-01
83	PAN080136	-10.3158	-10.0106	-10.1571	7.3664e-02	8.7037e-01
84	PAN090136	-10.2275	-9.9987	-10.0963	7.2362e-02	8.7037e-01
85	PAN100136	-10.2064	-9.9775	-10.1286	5.6613e-02	8.7037e-01
86	PAN105136	-5.0134	-4.7083	-4.8929	7.2444e-02	8.7009e-01
87	PAN110136	-5.1625	-4.9336	-5.0496	6.7610e-02	8.7009e-01
88	PAN115136	-4.8573	-4.5521	-4.7123	6.4018e-02	8.7008e-01
89	PAN120136	-5.2258	-4.9207	-5.0748	6.6279e-02	8.7009e-01
90	PAN125136	-5.1100	-4.7285	-4.8918	8.9890e-02	8.7009e-01
91	PAN130136	-5.2322	-4.9270	-5.0552	6.6189e-02	8.7009e-01
92	PAN120048	-10.7599	-10.3784	-10.6012	7.0365e-02	8.7040e-01
93	PAN130048	-10.0098	-9.7809	-9.8557	5.8673e-02	8.7035e-01
94	PAN120224	-9.9629	-9.7340	-9.8439	7.7315e-02	8.7035e-01
95	PAN130224	-10.1348	-9.9059	-10.0249	4.6650e-02	8.7036e-01
96	PAN120312	-10.0217	-9.7166	-9.8646	7.2967e-02	8.7035e-01
97	PAN130312	-10.1724	-9.9435	-10.0472	5.5060e-02	8.7036e-01
98	PAB000136	40.4078	40.5452	40.4838	4.3975e-02	5.8876e-01
99	PAB100136	44.1670	44.3501	44.2640	3.7725e-02	5.9046e-01
100	PAB125136	45.0913	45.2286	45.1582	4.3585e-02	5.9089e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3168	40.5610	40.4486	7.3325e-02	7.5679e-01
102	PRV000001	19.6973	19.8194	19.8169	1.7263e-02	7.5163e-01
103	PSR000001	45.0850	45.3291	45.2119	3.4527e-02	7.5847e-01
104	PFM000001	2.3442	2.5273	2.4669	6.3024e-02	5.0004e-01
105	PAN000136	-128.5410	-124.8789	-126.5909	7.2118e-01	4.9302e+00
106	PFM000002	2.3744	2.4927	2.4356	2.5517e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0009	3.5141e-03	0.0000e+00
108	EMPTY	-6.5625	-4.7266	-5.8354	3.6162e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1520	9.6735e-02	8.1000e-01
113	VPW000002	0.0753	0.2706	0.1261	8.6541e-02	8.1000e-01
114	VPW000003	0.0800	0.4706	0.1816	1.0617e-01	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0897	9.4702e-02	8.1000e-01
116	VPW000005	-0.1153	0.4706	0.1737	1.2627e-01	8.1000e-01
117	VPW000006	-0.0400	0.5459	0.1748	9.8648e-02	8.1000e-01
118	IPW000001	0.3998	6.2569	2.3522	1.2473e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	1.0240	1.0753e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	0.9953	9.5205e-01	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.2805	2.7832e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.7613	3.0894e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.1414	3.2178e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0188	3.3249e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.6174e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0154	2.6762e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0137	3.6911e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0484	1.0014e-01	4.1000e+00
129	IHT000002	-0.1247	0.2659	0.1370	1.0145e-01	4.1000e+00
130	IHT000003	0.0259	0.2212	0.1275	9.8569e-02	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1514	6.2265e-02	4.1000e+00
132	IHT000005	0.0753	0.2706	0.1495	9.5765e-02	4.1000e+00
133	IHT000006	0.0072	0.3978	0.1830	9.0412e-02	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1025	9.2034e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1298	9.8332e-02	4.1000e+00
136	IHT000009	-0.1200	0.0753	0.0206	8.8585e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1202	9.4125e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0820	9.7377e-02	4.1000e+00
139	IHT000012	-0.2328	0.1578	0.0875	1.0259e-01	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0453	1.0470e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1192	7.3716e-02	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0744	7.8918e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0098	9.8332e-02	4.1000e+00
144	IHT000017	0.1694	0.9506	0.6069	1.6057e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.1092	9.5112e-02	4.1000e+00
146	IHT000019	-0.3200	0.2659	-0.0739	1.0297e-01	4.1000e+00
147	IHT000020	-0.0234	0.3672	0.0586	1.1897e-01	4.1000e+00
148	IHT000021	-1.1934	-0.8028	-1.0137	1.1732e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0039	8.3612e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1209	9.6655e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0236	8.1729e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3756	8.6810e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0956	6.6498e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1561	6.2265e-02	4.1000e+00
155	IHT000028	-0.0047	0.1906	0.0773	9.7377e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.0820	9.7377e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0859	9.7935e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2119	1.0168e-01	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1327	7.9017e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9558	7.1136e-02	4.1000e+00
161	IHT000034	0.0000	0.1953	0.1367	9.0412e-02	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1272	8.8233e-02	4.1000e+00
163	IHT000036	0.0800	0.2753	0.1230	8.1729e-02	4.1000e+00

Velocity 1 = 4.0329 (ft/sec) (+/- 10.7829 %)
Velocity 2 = 4.0149 (ft/sec) (+/- 5.0799 %)
Pressure drop = -4.5731 (psi)
Tsats in = 268.1556 (deg F) Tsats out = 274.7061 (deg F)
Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 866.4418 %)
Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 939.0052 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.4860	78.1219	77.8754	1.6950e-01	1.9000e+00
1	TRF000002	76.4424	76.8646	76.6104	1.1384e-01	1.9000e+00
2	TFM000001	78.4533	79.4023	78.9654	2.0072e-01	1.9001e+00
3	TIN000001	86.0823	86.6082	86.3315	1.5714e-01	1.9002e+00
4	TRV000001	82.7267	83.3570	82.9119	1.5072e-01	1.9001e+00
5	TSR000001	77.2402	77.7681	77.4907	1.2872e-01	1.9000e+00
6	TAO020136	83.4108	84.5697	83.9999	2.6420e-01	1.9001e+00
7	TAO050136	84.1314	84.6563	84.4226	1.6619e-01	1.9001e+00
8	TAO070136	78.0802	78.8223	78.4222	2.3113e-01	1.9000e+00
9	TAO080136	83.0452	83.5707	83.3200	1.6569e-01	1.9001e+00
10	TAO090136	83.6300	84.5757	84.0977	1.9658e-01	1.9001e+00
11	TAO100136	83.8609	84.3867	84.0417	1.3060e-01	1.9001e+00
12	TAO105136	86.0520	86.9975	86.5708	2.3032e-01	1.9002e+00
13	EMPTY	40.0646	40.2940	40.1957	1.1470e-01	1.9011e+00
14	TAO115136	83.2761	84.0155	83.7050	1.7962e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9658	8.6151e-02	1.9008e+00
16	TAO125136	85.3772	85.9022	85.6942	1.6250e-01	1.9002e+00
17	TAO130136	82.9030	83.4269	83.1939	1.4205e-01	1.9001e+00
18	EMPTY	410.7782	419.8564	419.5157	1.5239e+00	2.0151e+00
19	TAO130048	84.3375	85.4902	84.9620	2.0625e-01	1.9002e+00
20	TAO120224	81.2745	82.0119	81.7068	1.8403e-01	1.9001e+00
21	EMPTY	-558.8272	-558.4312	-558.4638	1.0957e-01	2.0996e+00
22	TAO120312	83.8347	84.3615	84.0585	1.4984e-01	1.9001e+00
23	TAO130312	83.4187	84.1542	83.8645	1.7357e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.5468	1.8759e-01	1.9009e+00
25	TRT070000	84.2065	84.7345	84.4565	1.6918e-01	1.9001e+00
26	TRT100000	84.8543	85.5890	85.1542	1.5292e-01	1.9002e+00
27	TRT120000	84.1890	84.7147	84.5107	1.3808e-01	1.9001e+00
28	TRT125000	86.8759	87.6076	87.2598	2.0048e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9223	1.0896e-01	1.9010e+00
30	EMPTY	39.3761	40.2940	39.9523	2.1012e-01	1.9011e+00
31	TAF050136	85.2459	85.7711	85.4863	1.4043e-01	1.9002e+00
32	TAF070136	84.2473	84.9805	84.5809	1.9189e-01	1.9001e+00
33	TAF080136	83.6498	84.2774	84.0269	1.6260e-01	1.9001e+00
34	TAF090136	83.5597	84.5052	84.0359	2.5207e-01	1.9001e+00
35	TAF100136	84.0767	84.8138	84.3821	1.7874e-01	1.9001e+00
36	TAF105136	84.5726	85.5139	85.1616	2.3122e-01	1.9002e+00
37	TAF110136	82.7402	83.3702	82.9994	1.3589e-01	1.9001e+00
38	TAF115136	85.6400	86.4792	86.0532	2.2188e-01	1.9002e+00
39	TAF120136	85.2287	85.5447	85.3965	1.1539e-01	1.9002e+00
40	TAF125136	84.0903	84.9279	84.5196	1.6470e-01	1.9001e+00
41	TAF130136	83.9598	84.4856	84.2516	1.4279e-01	1.9001e+00
42	TAF120048	83.6200	84.4681	84.0660	2.1403e-01	1.9001e+00
43	TAF130048	84.5524	84.8686	84.7246	1.1702e-01	1.9001e+00
44	TAF120224	84.1287	84.8650	84.4764	1.8613e-01	1.9001e+00
45	TAF130224	84.0832	84.5058	84.2598	1.2231e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5087	2.0546e-01	1.9009e+00
47	EMPTY	37.5374	37.9974	37.7017	1.1501e-01	1.9010e+00
48	TAI130048	84.0039	85.2657	84.7422	2.9077e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8535	1.8299e-01	1.9006e+00
50	TAI130224	83.8769	84.9308	84.5221	2.4585e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2789	1.6434e-01	1.9010e+00
52	TRR130000	83.7127	84.6575	84.2354	2.2003e-01	1.9001e+00
53	TSI000001	45.3957	46.5879	46.2537	2.1776e-01	1.9004e+00
54	TSI000002	60.8036	62.0872	61.3606	2.9296e-01	1.9001e+00
55	TSO000001	45.5033	46.9197	46.5264	2.4740e-01	1.9004e+00
56	TSO000002	69.8160	70.6674	70.2743	2.0969e-01	1.9000e+00
57	TAF020136	76.9884	77.6261	77.3528	1.8515e-01	1.9000e+00
58	TAF120312	85.4496	86.3930	85.8817	2.4442e-01	1.9002e+00
59	TAF130312	83.1321	83.8670	83.4450	1.6253e-01	1.9001e+00
60	EMPTY	0.3467	0.3516	0.3515	6.9754e-04	0.0000e+00
61	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
62	EMPTY	0.3760	0.3809	0.3807	9.7615e-04	0.0000e+00
63	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
64	EMPTY	0.2930	0.3027	0.2934	1.6787e-03	0.0000e+00
65	EMPTY	0.3125	0.3223	0.3160	2.4414e-03	0.0000e+00
66	EMPTY	0.3320	0.3320	0.3320	0.0000e+00	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3515	6.9754e-04	0.0000e+00
68	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3845	2.1215e-03	0.0000e+00
70	EMPTY	0.3955	0.4004	0.4003	6.9754e-04	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4246	9.7615e-04	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4391	1.3508e-03	0.0000e+00
73	EMPTY	0.4541	0.4590	0.4588	9.7615e-04	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4737	6.9754e-04	0.0000e+00
75	EMPTY	0.4932	0.4932	0.4932	0.0000e+00	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5079	6.9754e-04	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5272	6.9754e-04	0.0000e+00
78	EMPTY	0.5469	0.5518	0.5516	9.7615e-04	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5757	1.4934e-03	0.0000e+00
80	PAN020136	-15.9794	-15.5216	-15.7489	1.0151e-01	8.7089e-01
81	PAN050136	-30.6204	-30.0100	-30.3090	1.4259e-01	1.6817e+00
82	PAN070136	-20.0215	-19.7163	-19.9140	7.2910e-02	8.7142e-01
83	PAN080136	-10.3158	-10.0106	-10.1710	7.8248e-02	8.7037e-01
84	PAN090136	-10.2275	-9.9987	-10.1061	7.4555e-02	8.7037e-01
85	PAN100136	-10.2064	-9.9775	-10.1286	5.9281e-02	8.7037e-01
86	PAN105136	-5.0134	-4.7845	-4.9231	5.5441e-02	8.7009e-01
87	PAN110136	-5.1625	-4.9336	-5.0317	4.6720e-02	8.7009e-01
88	PAN115136	-4.8573	-4.5521	-4.7125	7.0072e-02	8.7008e-01
89	PAN120136	-5.2258	-4.9207	-5.0810	6.6520e-02	8.7009e-01
90	PAN125136	-5.0337	-4.7285	-4.8718	6.9004e-02	8.7009e-01
91	PAN130136	-5.2322	-4.9270	-5.0453	7.4787e-02	8.7009e-01
92	PAN120048	-10.7599	-10.4547	-10.6011	6.5772e-02	8.7040e-01
93	PAN130048	-9.9335	-9.7046	-9.8696	5.4722e-02	8.7035e-01
94	PAN120224	-9.9629	-9.7340	-9.8414	6.5923e-02	8.7035e-01
95	PAN130224	-10.1348	-9.9059	-10.0304	5.0927e-02	8.7036e-01
96	PAN120312	-10.0217	-9.7928	-9.8738	5.9114e-02	8.7035e-01
97	PAN130312	-10.1724	-9.9435	-10.0431	5.8694e-02	8.7036e-01
98	PAB000136	40.4536	40.6367	40.5312	4.4030e-02	5.8878e-01
99	PAB100136	44.2128	44.4874	44.3034	4.6241e-02	5.9048e-01
100	PAB125136	45.1371	45.2744	45.1931	3.5292e-02	5.9090e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.4389	40.6830	40.5335	5.7176e-02	7.5681e-01
102	PRV000001	19.6973	19.8194	19.8144	2.4404e-02	7.5163e-01
103	PSR000001	45.2071	45.3291	45.2793	6.0619e-02	7.5849e-01
104	PFM000001	2.3442	2.6188	2.4488	6.7381e-02	5.0004e-01
105	PAN000136	-128.5410	-124.8789	-126.6072	6.8833e-01	4.9302e+00
106	PFM000002	2.3913	2.4758	2.4265	2.0645e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0009	3.4054e-03	0.0000e+00
108	EMPTY	-6.1133	-4.6582	-5.7670	2.3897e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0002	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1566	8.3122e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0952	7.1817e-02	8.1000e-01
114	VPW000003	0.0800	0.2753	0.1478	9.3931e-02	8.1000e-01
115	VPW000004	-0.2306	0.3553	0.0643	1.1362e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1517	9.5132e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1593	7.4477e-02	8.1000e-01
118	IPW000001	0.3998	4.3045	1.2366	1.0544e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.9173	9.5721e-01	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.6288	1.0923e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.3000	2.2287e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.4199	2.8116e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.0107	2.6022e-01	2.0000e+00
124	EMPTY	-0.0342	-0.0146	-0.0202	3.8602e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.6332e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0169	3.0070e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0130	3.2375e-03	0.0000e+00
128	IHT000001	-0.2094	0.3766	0.0417	1.0548e-01	4.1000e+00
129	IHT000002	0.0706	0.2659	0.1663	9.8648e-02	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1375	1.0548e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1752	9.1305e-02	4.1000e+00
132	IHT000005	0.0753	0.4659	0.1670	1.1348e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2145	1.0092e-01	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1436	9.8483e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1317	9.8483e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0275	1.0941e-01	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1354	1.0731e-01	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0558	8.9148e-02	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.0781	1.1219e-01	4.1000e+00
140	IHT000013	-0.2047	0.3813	0.0265	1.1044e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1073	1.1248e-01	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0752	7.9532e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	-0.0202	9.0949e-02	4.1000e+00
144	IHT000017	0.3647	0.9506	0.6557	1.9171e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.1201	1.0533e-01	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.0769	9.3759e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0762	9.8648e-02	4.1000e+00
148	IHT000021	-1.3888	-0.6075	-1.0380	1.5430e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0080	6.8582e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1162	9.1482e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	1.0364	9.7656e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3919	8.3122e-02	4.1000e+00
153	IHT000026	0.0800	0.2753	0.1039	6.4688e-02	4.1000e+00
154	IHT000027	-0.0353	0.1600	0.1361	6.4688e-02	4.1000e+00
155	IHT000028	-0.2000	0.3859	0.0830	1.1319e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.1116	1.0548e-01	4.1000e+00
157	IHT000030	0.0000	0.3906	0.1156	1.0486e-01	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2473	1.0092e-01	4.1000e+00
159	IHT000032	-0.2306	0.3553	0.1640	9.3412e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-2.0032	1.1276e-01	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1236	1.1059e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1511	1.0268e-01	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.1079	7.9736e-02	4.1000e+00

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Velocity 1 = 0.014500 (ft/sec)

Velocity 2 = 0.007400 (ft/sec)

Pressure Drop = 0.000600 (psi)

Tsat in = 0.069824 (deg F) Tsat out = 0.047089 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0134	0.0172
1	TRF000002	0.0009	0.0012
2	TFM000001	0.0292	0.0370
3	TIN000001	0.0407	0.0472
4	TRV000001	0.0278	0.0335
5	TSR000001	0.0267	0.0344
6	TAO020136	0.0957	0.1138
7	TAO050136	0.0747	0.0886
8	TAO070136	0.0886	0.1129
9	TAO080136	0.0092	0.0110
10	TAO090136	0.0054	0.0064
11	TAO100136	0.0183	0.0218
12	TAO105136	0.0629	0.0727
13	EMPTY	0.0209	0.0520
14	TAO115136	0.0340	0.0406
15	EMPTY	0.0269	0.0770
16	TAO125136	0.0336	0.0392
17	TAO130136	0.0782	0.0941
18	EMPTY	0.3405	0.0811
19	TAO130048	0.0104	0.0122
20	TAO120224	0.0213	0.0261
21	EMPTY	2.3899	0.4298
22	TAO120312	0.0023	0.0027
23	TAO130312	0.0151	0.0180
24	EMPTY	0.0048	0.0128
25	TRT070000	0.0241	0.0285
26	TRT100000	0.0080	0.0094
27	TRT120000	0.0211	0.0250
28	TRT125000	0.0153	0.0175
29	EMPTY	0.0077	0.0203
30	EMPTY	0.0253	0.0634
31	TAF050136	0.0110	0.0129
32	TAF070136	0.0164	0.0194
33	TAF080136	0.0116	0.0138
34	TAF090136	0.0452	0.0538
35	TAF100136	0.0166	0.0197
36	TAF105136	0.0304	0.0357
37	TAF110136	0.0512	0.0617
38	TAF115136	0.0334	0.0388
39	TAF120136	0.0072	0.0084
40	TAF125136	0.0211	0.0250
41	TAF130136	0.0374	0.0444
42	TAF120048	0.0314	0.0373
43	TAF130048	0.0013	0.0015
44	TAF120224	0.0036	0.0043
45	TAF130224	0.0099	0.0118

#	Name	Abs Diff	%Diff
46	EMPTY	0.1035	0.2827
47	EMPTY	0.0152	0.0403
48	TAI130048	0.0042	0.0050
49	EMPTY	0.0417	0.1350
50	TAI130224	0.1120	0.1327
51	EMPTY	0.0286	0.0748
52	TRR130000	0.0672	0.0797
53	TSI000001	0.0020	0.0043
54	TSI000002	0.0831	0.1352
55	TSO000001	0.0096	0.0206
56	TSO000002	0.3227	0.4571
57	TAF020136	0.0118	0.0153
58	TAF120312	0.0103	0.0120
59	TAF130312	0.0167	0.0200
60	EMPTY	0.0004	0.1139
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0002	0.0526
63	EMPTY	0.0001	0.0253
64	EMPTY	0.0001	0.0341
65	EMPTY	0.0001	0.0317
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0002	0.0546
69	EMPTY	0.0009	0.2335
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0005	0.1137
73	EMPTY	0.0002	0.0436
74	EMPTY	0.0000	0.0000
75	EMPTY	0.0002	0.0405
76	EMPTY	0.0001	0.0197
77	EMPTY	0.0001	0.0190
78	EMPTY	0.0002	0.0363
79	EMPTY	0.0003	0.0521
80	PAN020136	0.0045	0.0286
81	PAN050136	0.0031	0.0102
82	PAN070136	0.0114	0.0572
83	PAN080136	0.0139	0.1368
84	PAN090136	0.0098	0.0971
85	PAN100136	0.0000	0.0000
86	PAN105136	0.0302	0.6172
87	PAN110136	0.0179	0.3545
88	PAN115136	0.0002	0.0042
89	PAN120136	0.0062	0.1222
90	PAN125136	0.0200	0.4088
91	PAN130136	0.0099	0.1958
92	PAN120048	0.0001	0.0009
93	PAN130048	0.0139	0.1410
94	PAN120224	0.0025	0.0254
95	PAN130224	0.0055	0.0549
96	PAN120312	0.0092	0.0933
97	PAN130312	0.0041	0.0408
98	PAB000136	0.0474	0.1171
99	PAB100136	0.0394	0.0890
100	PAB125136	0.0349	0.0773

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0849	0.2099
102	PRV000001	0.0025	0.0126
103	PSR000001	0.0674	0.1491
104	PFM000001	0.0181	0.7337
105	PAN000136	0.0163	0.0129
106	PFM000002	0.0091	0.3736
107	EMPTY	0.0000	0.0000
108	EMPTY	0.0684	1.1722
109	EMPTY	0.0001	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0046	3.0263
113	VPW000002	0.0309	24.5044
114	VPW000003	0.0338	18.6123
115	VPW000004	0.0254	28.3166
116	VPW000005	0.0220	12.6655
117	VPW000006	0.0155	8.8673
118	IPW000001	1.1156	47.4279
119	IPW000002	0.1067	10.4199
120	IPW000003	0.6335	63.6492
121	IPW000004	0.0195	6.9519
122	IPW000005	0.3414	44.8443
123	IPW000006	0.1307	92.4328
124	EMPTY	0.0014	7.4468
125	EMPTY	0.0004	3.0075
126	EMPTY	0.0015	9.7403
127	EMPTY	0.0007	5.1095
128	IHT000001	0.0067	13.8430
129	IHT000002	0.0293	21.3869
130	IHT000003	0.0100	7.8431
131	IHT000004	0.0238	15.7199
132	IHT000005	0.0175	11.7057
133	IHT000006	0.0315	17.2131
134	IHT000007	0.0411	40.0976
135	IHT000008	0.0019	1.4638
136	IHT000009	0.0069	33.4951
137	IHT000010	0.0152	12.6456
138	IHT000011	0.0262	31.9512
139	IHT000012	0.0094	10.7429
140	IHT000013	0.0188	41.5011
141	IHT000014	0.0119	9.9832
142	IHT000015	0.0008	1.0753
143	IHT000016	0.0300	306.1224
144	IHT000017	0.0488	8.0409
145	IHT000018	0.0109	9.9817
146	IHT000019	0.0030	4.0595
147	IHT000020	0.0176	30.0341
148	IHT000021	0.0243	2.3972
149	IHT000022	0.0041	105.1282
150	IHT000023	0.0047	3.8875
151	IHT000024	0.0128	1.2505
152	IHT000025	0.0163	4.3397
153	IHT000026	0.0083	8.6820
154	IHT000027	0.0200	12.8123
155	IHT000028	0.0057	7.3739

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0296	36.0976
157	IHT000030	0.0297	34.5751
158	IHT000031	0.0354	16.7060
159	IHT000032	0.0313	23.5870
160	IHT000033	0.0474	2.4236
161	IHT000034	0.0131	9.5830
162	IHT000035	0.0239	18.7893
163	IHT000036	0.0151	12.2764

Velocity 1 = 2.8977 (ft/sec) (+/- 20.4276 %)
 Velocity 2 = 2.8591 (ft/sec) (+/- 8.2191 %)
 Pressure drop = -4.9729 (psi)
 Tsat in = 268.1654 (deg F) Tsat out = 275.2401 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 760.1086 %)
 Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 904.9980 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	77.6980	78.3338	77.9608	1.6891e-01	1.9000e+00
1	TRF0000002	76.4424	76.8646	76.6746	1.2970e-01	1.9000e+00
2	TFM0000001	78.6646	79.5076	79.1302	1.8449e-01	1.9001e+00
3	TIN0000001	86.0829	86.8182	86.5218	1.6531e-01	1.9002e+00
4	TRV0000001	82.6231	83.5665	83.1287	2.0845e-01	1.9001e+00
5	TSR0000001	77.3463	77.8741	77.6061	1.4796e-01	1.9000e+00
6	TAO020136	83.6217	84.5697	84.2093	2.2431e-01	1.9001e+00
7	TAO050136	84.2363	84.9701	84.5950	1.7859e-01	1.9001e+00
8	TAO070136	77.9747	78.9277	78.5106	2.1978e-01	1.9000e+00
9	TAO080136	83.0457	83.8845	83.4927	1.4643e-01	1.9001e+00
10	TAO090136	83.8404	84.6812	84.3089	2.3062e-01	1.9001e+00
11	TAO100136	83.8614	84.4926	84.2420	1.5590e-01	1.9001e+00
12	TAO105136	86.3675	87.1021	86.8020	1.7107e-01	1.9002e+00
13	EMPTY	40.0646	40.2940	40.1702	1.1550e-01	1.9011e+00
14	TAO115136	83.1706	84.2264	83.8863	2.6328e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8558	1.1186e-01	1.9008e+00
16	TAO125136	85.4825	86.2165	85.8578	1.3918e-01	1.9002e+00
17	TAO130136	82.6962	83.3251	83.0670	1.6385e-01	1.9001e+00
18	EMPTY	397.7216	419.8564	419.0795	3.5812e+00	2.0148e+00
19	TAO130048	84.1300	85.0718	84.7719	1.9965e-01	1.9001e+00
20	TAO120224	81.5902	82.2219	81.8919	1.7670e-01	1.9001e+00
21	EMPTY	-566.7715	-566.3732	-566.3810	5.6330e-02	2.1050e+00
22	TAO120312	83.7302	84.6767	84.2666	1.6901e-01	1.9001e+00
23	TAO130312	83.3143	84.0499	83.6775	1.5916e-01	1.9001e+00
24	EMPTY	37.0772	37.9974	37.5742	2.0450e-01	1.9010e+00
25	TRT070000	84.3119	84.9461	84.6183	1.4962e-01	1.9001e+00
26	TRT100000	85.0639	85.6943	85.3434	1.5072e-01	1.9002e+00
27	TRT120000	84.3990	85.0295	84.6913	1.2428e-01	1.9001e+00
28	TRT125000	86.9805	87.8159	87.4715	2.0590e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9514	9.2922e-02	1.9010e+00
30	EMPTY	39.6057	40.5234	39.9637	2.3254e-01	1.9011e+00
31	TAF050136	85.2464	86.0855	85.6889	2.0122e-01	1.9002e+00
32	TAF070136	84.2473	85.0853	84.7231	1.7202e-01	1.9001e+00
33	TAF080136	83.8579	84.4860	84.2119	1.4022e-01	1.9001e+00
34	TAF090136	83.4551	84.7157	84.1631	2.6666e-01	1.9001e+00
35	TAF100136	84.0772	85.0241	84.5885	2.0270e-01	1.9001e+00
36	TAF105136	84.8870	85.8269	85.3401	2.2172e-01	1.9002e+00
37	TAF110136	82.7407	83.4751	83.1329	1.4673e-01	1.9001e+00
38	TAF115136	85.8496	86.5839	86.2337	2.1032e-01	1.9002e+00
39	TAF120136	85.3341	85.8590	85.6131	1.4767e-01	1.9002e+00
40	TAF125136	84.2998	85.0327	84.6661	1.6301e-01	1.9001e+00
41	TAF130136	84.1696	84.6957	84.4244	1.3941e-01	1.9001e+00
42	TAF120048	83.6217	84.7848	84.2749	2.4069e-01	1.9001e+00
43	TAF130048	84.5529	85.1836	84.9083	1.5878e-01	1.9001e+00
44	TAF120224	84.1287	84.9698	84.6692	1.6862e-01	1.9001e+00
45	TAF130224	84.0838	84.7161	84.4696	1.5163e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5477	1.8755e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6111	1.0839e-01	1.9010e+00
48	TAI130048	84.1093	85.6865	84.8851	3.1916e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.9427	1.7940e-01	1.9006e+00
50	TAI130224	83.9818	85.1410	84.6714	2.6953e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2871	1.5270e-01	1.9010e+00
52	TRR130000	84.0274	84.9720	84.5167	2.2289e-01	1.9001e+00
53	TSI000001	46.0456	46.6961	46.3861	1.5640e-01	1.9004e+00
54	TSI000002	61.3390	62.4088	61.7945	2.5176e-01	1.9000e+00
55	TSO000001	46.2666	47.0284	46.6996	2.0337e-01	1.9004e+00
56	TSO000002	70.1354	71.0926	70.6352	2.0066e-01	1.9000e+00
57	TAF020136	76.9890	77.8375	77.4025	1.9097e-01	1.9000e+00
58	TAF120312	85.5544	86.4977	86.0806	2.5690e-01	1.9002e+00
59	TAF130312	83.3416	83.9724	83.6842	1.5557e-01	1.9001e+00
60	EMPTY	0.3516	0.3564	0.3551	2.2146e-03	0.0000e+00
61	EMPTY	0.3662	0.3711	0.3698	2.1635e-03	0.0000e+00
62	EMPTY	0.3809	0.3857	0.3828	2.4164e-03	0.0000e+00
63	EMPTY	0.3955	0.4004	0.4000	1.3381e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2973	1.6028e-03	0.0000e+00
65	EMPTY	0.3174	0.3174	0.3174	0.0000e+00	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3344	2.4642e-03	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3523	1.8082e-03	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3663	6.9053e-04	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3859	9.6655e-04	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4018	2.2146e-03	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4250	9.6655e-04	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4396	6.9053e-04	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4604	2.2146e-03	0.0000e+00
74	EMPTY	0.4736	0.4834	0.4784	1.2041e-03	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4952	2.4344e-03	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5113	2.2146e-03	0.0000e+00
77	EMPTY	0.5273	0.5322	0.5320	9.6655e-04	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5521	1.1714e-03	0.0000e+00
79	EMPTY	0.5762	0.5811	0.5767	1.4797e-03	0.0000e+00
80	PAN020136	-17.3527	-16.9712	-17.1726	9.4716e-02	8.7106e-01
81	PAN050136	-33.0618	-32.7566	-32.9153	9.7290e-02	1.6820e+00
82	PAN070136	-22.0051	-21.7000	-21.8022	7.8003e-02	8.7171e-01
83	PAN080136	-11.0787	-10.8499	-10.9475	7.0702e-02	8.7043e-01
84	PAN090136	-11.1431	-10.8379	-10.9325	7.3211e-02	8.7043e-01
85	PAN100136	-11.1219	-10.8168	-10.9663	6.7116e-02	8.7043e-01
86	PAN105136	-5.3949	-5.1660	-5.2667	5.2134e-02	8.7010e-01
87	PAN110136	-5.5439	-5.3914	-5.4890	5.3484e-02	8.7011e-01
88	PAN115136	-5.3914	-5.0862	-5.2037	7.7392e-02	8.7010e-01
89	PAN120136	-5.6073	-5.3021	-5.4883	6.5685e-02	8.7011e-01
90	PAN125136	-5.4152	-5.1863	-5.3267	6.2345e-02	8.7010e-01
91	PAN130136	-5.5374	-5.3085	-5.4336	6.4957e-02	8.7011e-01
92	PAN120048	-11.6754	-11.3702	-11.4954	6.6761e-02	8.7047e-01
93	PAN130048	-10.8490	-10.5438	-10.7040	6.4018e-02	8.7041e-01
94	PAN120224	-10.8784	-10.6495	-10.7594	7.0903e-02	8.7042e-01
95	PAN130224	-10.9740	-10.7451	-10.8901	6.0192e-02	8.7043e-01
96	PAN120312	-10.8610	-10.6321	-10.7740	6.8949e-02	8.7042e-01
97	PAN130312	-11.0116	-10.7064	-10.8880	6.1442e-02	8.7043e-01
98	PAB000136	40.4536	40.6367	40.5378	4.3731e-02	5.8879e-01
99	PAB100136	44.5332	44.6705	44.6165	4.5013e-02	5.9063e-01
100	PAB125136	45.5033	45.6864	45.5921	4.2792e-02	5.9109e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.4389	40.5610	40.4975	6.1605e-02	7.5680e-01
102	PRV0000001	19.8194	19.9414	19.8364	4.2787e-02	7.5164e-01
103	PSR0000001	45.6953	45.8174	45.7075	3.6993e-02	7.5865e-01
104	PFM0000001	1.1540	1.3371	1.2419	6.6587e-02	5.0001e-01
105	PAN000136	-138.6118	-136.3230	-137.6780	4.9769e-01	4.9320e+00
106	PFM0000002	1.1580	1.2425	1.2080	1.6355e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	-0.0023	3.3073e-03	0.0000e+00
108	EMPTY	-6.5479	-5.6348	-5.9773	2.0216e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	-0.0706	0.3200	0.1520	7.9017e-02	8.1000e-01
113	VPW0000002	-0.1200	0.4659	0.1105	1.0206e-01	8.1000e-01
114	VPW0000003	0.0800	0.2753	0.1386	9.0412e-02	8.1000e-01
115	VPW0000004	-0.0353	0.1600	0.0780	9.7377e-02	8.1000e-01
116	VPW0000005	0.0800	0.4706	0.1464	1.0145e-01	8.1000e-01
117	VPW0000006	-0.0400	0.3506	0.1905	1.0942e-01	8.1000e-01
118	IPW0000001	0.3998	4.3045	1.2979	1.0591e+00	8.1000e+00
119	IPW0000002	-1.5516	2.3509	1.0240	1.0004e+00	8.1000e+00
120	IPW0000003	1.1513	5.0513	1.9703	1.0490e+00	8.1000e+00
121	IPW0000004	-0.1883	0.7883	0.4074	2.4741e-01	2.0000e+00
122	IPW0000005	-0.0883	0.8882	0.4195	2.1968e-01	2.0000e+00
123	IPW0000006	-0.2883	0.6883	0.2000	2.7902e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0201	4.2590e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0129	3.0819e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0169	3.3029e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0136	3.5962e-03	0.0000e+00
128	IHT0000001	-0.2094	0.1813	0.0289	9.0756e-02	4.1000e+00
129	IHT0000002	0.0706	0.4612	0.1878	1.1161e-01	4.1000e+00
130	IHT0000003	0.0259	0.2212	0.1158	9.8332e-02	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1631	7.8523e-02	4.1000e+00
132	IHT0000005	0.0753	0.2706	0.1534	9.6655e-02	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.2103	8.7880e-02	4.1000e+00
134	IHT0000007	0.0400	0.2353	0.1337	9.8569e-02	4.1000e+00
135	IHT0000008	0.0400	0.4306	0.1416	1.0617e-01	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0245	1.0297e-01	4.1000e+00
137	IHT0000010	-0.0400	0.1553	0.1084	8.4262e-02	4.1000e+00
138	IHT0000011	-0.1953	0.1953	0.0742	1.0358e-01	4.1000e+00
139	IHT0000012	-0.0375	0.1578	0.0719	9.7935e-02	4.1000e+00
140	IHT0000013	-0.4000	0.1859	0.0258	1.0206e-01	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1192	1.0052e-01	4.1000e+00
142	IHT0000015	-0.1600	0.2306	0.0627	7.9017e-02	4.1000e+00
143	IHT0000016	-0.0800	0.1153	0.0059	9.7935e-02	4.1000e+00
144	IHT0000017	0.1694	1.1459	0.6264	2.2185e-01	4.1000e+00
145	IHT0000018	-0.0353	0.1600	0.0936	9.3461e-02	4.1000e+00
146	IHT0000019	-0.1247	0.0706	-0.0661	9.0412e-02	4.1000e+00
147	IHT0000020	-0.0234	0.3672	0.0859	1.0559e-01	4.1000e+00
148	IHT0000021	-1.3888	-0.8028	-1.0255	1.5288e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	0.0039	4.8166e-02	4.1000e+00
150	IHT0000023	-0.0353	0.3553	0.1014	9.8648e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	1.0314	9.5112e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3913	9.1354e-02	4.1000e+00
153	IHT0000026	0.0800	0.2753	0.0956	5.3525e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1366	7.5283e-02	4.1000e+00
155	IHT0000028	-0.2000	0.1906	0.0539	9.8648e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.1055	9.8332e-02	4.1000e+00
157	IHT000030	-0.1953	0.1953	0.0859	1.0559e-01	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2275	7.8523e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1522	6.7888e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9636	6.1257e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1172	1.0440e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1389	9.1779e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0995	7.1136e-02	4.1000e+00

Velocity 1 = 2.8913 (ft/sec) (+/- 20.5188 %)
Velocity 2 = 2.8476 (ft/sec) (+/- 8.2756 %)
Pressure drop = -4.9729 (psi)
Tsats in = 268.1212 (deg F) Tsats out = 275.2064 (deg F)
Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 616.2654 %)
Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 1158.9996 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.6980	78.3338	77.9792	1.6411e-01	1.9000e+00
1	TRF000002	76.4424	76.8646	76.6578	1.3273e-01	1.9000e+00
2	TFM000001	78.5592	79.5076	79.2042	2.0709e-01	1.9001e+00
3	TIN000001	86.2929	86.9234	86.6123	1.8059e-01	1.9002e+00
4	TRV000001	82.8322	83.4625	83.2096	1.6986e-01	1.9001e+00
5	TSR000001	77.3463	77.8741	77.6007	1.2357e-01	1.9000e+00
6	TAO020136	83.9370	84.6746	84.2257	2.0141e-01	1.9001e+00
7	TAO050136	84.2363	84.9701	84.6301	1.5953e-01	1.9001e+00
8	TAO070136	77.9742	78.9277	78.4848	2.0821e-01	1.9000e+00
9	TAO080136	83.2547	83.8845	83.5231	1.4539e-01	1.9001e+00
10	TAO090136	83.7360	84.8903	84.3485	2.1036e-01	1.9001e+00
11	TAO100136	83.8614	84.7020	84.2497	1.6783e-01	1.9001e+00
12	TAO105136	86.3669	87.2075	86.8087	2.3285e-01	1.9002e+00
13	EMPTY	40.0646	40.2940	40.1957	1.1470e-01	1.9011e+00
14	TAO115136	83.4871	84.2264	83.9183	2.0974e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9140	1.1357e-01	1.9008e+00
16	TAO125136	85.5868	86.2165	85.8719	1.3381e-01	1.9002e+00
17	TAO130136	82.8012	83.3251	83.1295	1.3033e-01	1.9001e+00
18	EMPTY	204.5894	310.1394	232.3982	2.5987e+01	1.9360e+00
19	TAO130048	84.0241	84.9674	84.4562	1.8989e-01	1.9001e+00
20	TAO120224	81.4856	82.2226	81.9196	1.8818e-01	1.9001e+00
21	EMPTY	-568.3658	-567.9670	-568.3575	5.6972e-02	2.1064e+00
22	TAO120312	83.8352	84.6767	84.3055	1.9457e-01	1.9001e+00
23	TAO130312	83.3138	84.0493	83.6529	1.7195e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5938	1.7273e-01	1.9010e+00
25	TRT070000	84.2071	84.9461	84.6959	1.4861e-01	1.9001e+00
26	TRT100000	84.9597	85.6937	85.3577	1.7911e-01	1.9002e+00
27	TRT120000	84.5039	85.0295	84.7273	1.6141e-01	1.9001e+00
28	TRT125000	87.0843	87.9205	87.4794	1.9583e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9223	1.1864e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9054	2.0527e-01	1.9011e+00
31	TAF050136	85.4565	86.0855	85.7279	1.4966e-01	1.9002e+00
32	TAF070136	84.3522	85.2945	84.8478	2.2567e-01	1.9001e+00
33	TAF080136	83.9616	84.5914	84.2894	1.7453e-01	1.9001e+00
34	TAF090136	83.7699	85.3449	84.3383	2.9620e-01	1.9001e+00
35	TAF100136	84.3926	84.9192	84.6462	1.4706e-01	1.9001e+00
36	TAF105136	84.8865	85.8275	85.3643	2.3436e-01	1.9002e+00
37	TAF110136	82.8447	83.4757	83.1901	1.5012e-01	1.9001e+00
38	TAF115136	85.8496	86.5839	86.3121	1.6428e-01	1.9002e+00
39	TAF120136	85.3346	85.8590	85.6679	1.2975e-01	1.9002e+00
40	TAF125136	84.4033	85.0327	84.7269	1.6421e-01	1.9001e+00
41	TAF130136	84.1701	84.8005	84.4554	1.5911e-01	1.9001e+00
42	TAF120048	83.9376	84.7854	84.3013	2.2124e-01	1.9001e+00
43	TAF130048	84.6578	85.3938	84.9628	1.5657e-01	1.9002e+00
44	TAF120224	84.4439	85.1800	84.7661	1.8878e-01	1.9001e+00
45	TAF130224	84.1887	84.7166	84.5121	1.3839e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5980	1.8707e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.7393	7.6185e-02	1.9010e+00
48	TAI130048	84.4246	85.6860	85.0576	2.8100e-01	1.9002e+00
49	EMPTY	30.8003	31.5121	31.0279	1.6751e-01	1.9006e+00
50	TAI130224	83.8769	85.2469	84.6747	3.0192e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2555	1.3787e-01	1.9010e+00
52	TRR130000	84.0274	84.9720	84.5117	2.5682e-01	1.9001e+00
53	TSI000001	46.0456	46.6961	46.3931	1.5643e-01	1.9004e+00
54	TSI000002	60.9107	62.4083	61.7078	2.9776e-01	1.9000e+00
55	TSO000001	46.2661	47.0284	46.6707	1.9245e-01	1.9004e+00
56	TSO000002	70.1354	70.9861	70.4719	1.9211e-01	1.9000e+00
57	TAF020136	76.9890	77.8375	77.4110	1.6987e-01	1.9000e+00
58	TAF120312	85.7638	86.4977	86.1662	2.2868e-01	1.9002e+00
59	TAF130312	83.4466	84.0764	83.7339	1.6009e-01	1.9001e+00
60	EMPTY	0.3516	0.3564	0.3563	6.9754e-04	0.0000e+00
61	EMPTY	0.3711	0.3711	0.3711	0.0000e+00	0.0000e+00
62	EMPTY	0.3809	0.3857	0.3852	1.4934e-03	0.0000e+00
63	EMPTY	0.4004	0.4053	0.4005	6.9754e-04	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2978	6.9754e-04	0.0000e+00
65	EMPTY	0.3174	0.3223	0.3176	9.7615e-04	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3359	1.9883e-03	0.0000e+00
67	EMPTY	0.3467	0.3564	0.3535	2.6022e-03	0.0000e+00
68	EMPTY	0.3564	0.3711	0.3674	2.7351e-03	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3859	9.7615e-04	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4038	2.2737e-03	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4261	2.1781e-03	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4415	2.4414e-03	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4623	2.3135e-03	0.0000e+00
74	EMPTY	0.4785	0.4834	0.4786	6.9754e-04	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4970	2.0584e-03	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5123	1.3508e-03	0.0000e+00
77	EMPTY	0.5225	0.5322	0.5319	1.5467e-03	0.0000e+00
78	EMPTY	0.5518	0.5615	0.5547	2.6022e-03	0.0000e+00
79	EMPTY	0.5762	0.5811	0.5791	2.4247e-03	0.0000e+00
80	PAN020136	-17.3527	-16.9712	-17.1658	9.6078e-02	8.7106e-01
81	PAN050136	-33.2144	-32.7566	-32.8967	1.1997e-01	1.6820e+00
82	PAN070136	-21.9288	-21.7000	-21.7980	6.7883e-02	8.7171e-01
83	PAN080136	-11.0787	-10.8499	-10.9651	8.8265e-02	8.7043e-01
84	PAN090136	-11.0668	-10.8379	-10.9313	5.8820e-02	8.7043e-01
85	PAN100136	-11.1219	-10.8168	-10.9740	7.2057e-02	8.7043e-01
86	PAN105136	-5.3949	-5.1660	-5.2719	5.1218e-02	8.7010e-01
87	PAN110136	-5.6202	-5.3914	-5.5175	5.5173e-02	8.7011e-01
88	PAN115136	-5.3151	-5.0862	-5.2248	6.5470e-02	8.7010e-01
89	PAN120136	-5.6073	-5.3784	-5.4874	5.3948e-02	8.7011e-01
90	PAN125136	-5.4152	-5.1863	-5.3249	5.9656e-02	8.7010e-01
91	PAN130136	-5.5374	-5.3848	-5.4284	5.1651e-02	8.7011e-01
92	PAN120048	-11.5991	-11.3702	-11.4808	6.6185e-02	8.7047e-01
93	PAN130048	-10.8490	-10.6201	-10.7089	5.4722e-02	8.7041e-01
94	PAN120224	-10.8784	-10.6495	-10.7476	6.6072e-02	8.7041e-01
95	PAN130224	-10.9740	-10.8214	-10.8930	5.0243e-02	8.7043e-01
96	PAN120312	-10.9373	-10.6321	-10.7784	6.7591e-02	8.7042e-01
97	PAN130312	-11.0116	-10.7064	-10.8824	5.6590e-02	8.7043e-01
98	PAB000136	40.4078	40.5910	40.5078	5.5810e-02	5.8877e-01
99	PAB100136	44.4874	44.6705	44.5855	5.1180e-02	5.9061e-01
100	PAB125136	45.4575	45.6864	45.5668	5.1023e-02	5.9108e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3168	40.5610	40.4314	4.6001e-02	7.5678e-01
102	PRV000001	19.6973	19.8194	19.8144	2.4404e-02	7.5163e-01
103	PSR000001	45.5733	45.8174	45.6854	4.1968e-02	7.5865e-01
104	PFM000001	1.1540	1.3371	1.2362	6.2668e-02	5.0001e-01
105	PAN000136	-138.1541	-137.2385	-137.6776	2.9488e-01	4.9320e+00
106	PFM000002	1.1580	1.2256	1.1980	1.6062e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	-0.0018	3.5511e-03	0.0000e+00
108	EMPTY	-7.3535	-5.7129	-5.9684	2.8759e-01	0.0000e+00
109	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.7615e-04	0.0000e+00
112	VPW000001	-0.0706	0.5153	0.1446	9.1305e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0913	1.0424e-01	8.1000e-01
114	VPW000003	-0.1153	0.4706	0.1757	1.1362e-01	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0564	1.0625e-01	8.1000e-01
116	VPW000005	-0.1153	0.2753	0.1557	1.0409e-01	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1673	1.0851e-01	8.1000e-01
118	IPW000001	0.3998	2.3522	1.0373	9.2503e-01	8.1000e+00
119	IPW000002	-1.5516	2.3509	1.0368	1.1535e+00	8.1000e+00
120	IPW000003	1.1513	5.0513	2.4645	1.2196e+00	8.1000e+00
121	IPW000004	0.3000	1.2766	0.6886	2.4373e-01	2.0000e+00
122	IPW000005	-1.0647	0.4000	0.0911	2.9385e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.1302	3.1518e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0191	3.9664e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.6752e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0166	2.8047e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0143	3.5109e-03	0.0000e+00
128	IHT000001	-0.0141	0.1813	0.0218	7.6412e-02	4.1000e+00
129	IHT000002	-0.1247	0.2659	0.1384	1.0204e-01	4.1000e+00
130	IHT000003	0.0259	0.2212	0.1216	9.8648e-02	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1593	6.2908e-02	4.1000e+00
132	IHT000005	0.0753	0.2706	0.1630	9.8153e-02	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2145	8.3705e-02	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1237	9.7656e-02	4.1000e+00
135	IHT000008	0.0400	0.4306	0.0918	9.5812e-02	4.1000e+00
136	IHT000009	-0.1200	0.0753	0.0315	8.2338e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1394	7.8092e-02	4.1000e+00
138	IHT000011	0.0000	0.3906	0.0837	1.0548e-01	4.1000e+00
139	IHT000012	-0.0375	0.1578	0.0821	9.6150e-02	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0106	1.1448e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1392	9.4620e-02	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0752	9.7490e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0157	9.8648e-02	4.1000e+00
144	IHT000017	0.3647	0.9506	0.6278	1.7172e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.0604	9.8648e-02	4.1000e+00
146	IHT000019	-0.1247	0.2659	-0.0609	1.0076e-01	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0643	9.8153e-02	4.1000e+00
148	IHT000021	-1.1934	-0.8028	-1.0499	1.3681e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	-0.0120	6.1868e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1162	9.1482e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0285	8.4860e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3999	1.1947e-01	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0920	6.1868e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1361	7.5986e-02	4.1000e+00
155	IHT000028	-0.0047	0.1906	0.0631	9.3931e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.1036	9.8483e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0797	9.6990e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2313	7.4477e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1640	8.4477e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9514	1.1014e-01	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1276	1.0204e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1352	8.8783e-02	4.1000e+00
163	IHT000036	0.0800	0.2753	0.1278	8.4860e-02	4.1000e+00

Velocity 1 = 0.006400 (ft/sec)
 Velocity 2 = 0.011500 (ft/sec)
 Pressure Drop = 0.000000 (psi)
 Tsat in = 0.044220 (deg F) Tsat out = 0.033722 (deg F)
 Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0184	0.0236
1	TRF000002	0.0168	0.0219
2	TFM000001	0.0740	0.0935
3	TIN000001	0.0905	0.1046
4	TRV000001	0.0809	0.0973
5	TSR000001	0.0054	0.0070
6	TAO020136	0.0164	0.0195
7	TAO050136	0.0351	0.0415
8	TAO070136	0.0258	0.0329
9	TAO080136	0.0304	0.0364
10	TAO090136	0.0396	0.0470
11	TAO100136	0.0077	0.0091
12	TAO105136	0.0067	0.0077
13	EMPTY	0.0255	0.0635
14	TAO115136	0.0320	0.0381
15	EMPTY	0.0582	0.1670
16	TAO125136	0.0141	0.0164
17	TAO130136	0.0625	0.0752
18	EMPTY	186.6813	44.5456
19	TAO130048	0.3157	0.3724
20	TAO120224	0.0277	0.0338
21	EMPTY	1.9765	0.3490
22	TAO120312	0.0389	0.0462
23	TAO130312	0.0246	0.0294
24	EMPTY	0.0196	0.0522
25	TRT070000	0.0776	0.0917
26	TRT100000	0.0143	0.0168
27	TRT120000	0.0360	0.0425
28	TRT125000	0.0079	0.0090
29	EMPTY	0.0291	0.0767
30	EMPTY	0.0583	0.1459
31	TAF050136	0.0390	0.0455
32	TAF070136	0.1247	0.1472
33	TAF080136	0.0775	0.0920
34	TAF090136	0.1752	0.2082
35	TAF100136	0.0577	0.0682
36	TAF105136	0.0242	0.0284
37	TAF110136	0.0572	0.0688
38	TAF115136	0.0784	0.0909
39	TAF120136	0.0548	0.0640
40	TAF125136	0.0608	0.0718
41	TAF130136	0.0310	0.0367
42	TAF120048	0.0264	0.0313
43	TAF130048	0.0545	0.0642
44	TAF120224	0.0969	0.1144
45	TAF130224	0.0425	0.0503

#	Name	Abs Diff	%Diff
46	EMPTY	0.0503	0.1376
47	EMPTY	0.1282	0.3409
48	TAI130048	0.1725	0.2032
49	EMPTY	0.0852	0.2754
50	TAI130224	0.0033	0.0039
51	EMPTY	0.0316	0.0825
52	TRR130000	0.0050	0.0059
53	TSI000001	0.0070	0.0151
54	TSI000002	0.0867	0.1403
55	TSO000001	0.0289	0.0619
56	TSO000002	0.1633	0.2312
57	TAF020136	0.0085	0.0110
58	TAF120312	0.0856	0.0994
59	TAF130312	0.0497	0.0594
60	EMPTY	0.0012	0.3379
61	EMPTY	0.0013	0.3515
62	EMPTY	0.0024	0.6270
63	EMPTY	0.0005	0.1250
64	EMPTY	0.0005	0.1682
65	EMPTY	0.0002	0.0630
66	EMPTY	0.0015	0.4486
67	EMPTY	0.0012	0.3406
68	EMPTY	0.0011	0.3003
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0020	0.4978
71	EMPTY	0.0011	0.2588
72	EMPTY	0.0019	0.4322
73	EMPTY	0.0019	0.4127
74	EMPTY	0.0002	0.0418
75	EMPTY	0.0018	0.3635
76	EMPTY	0.0010	0.1956
77	EMPTY	0.0001	0.0188
78	EMPTY	0.0026	0.4709
79	EMPTY	0.0024	0.4162
80	PAN020136	0.0068	0.0396
81	PAN050136	0.0186	0.0565
82	PAN070136	0.0042	0.0193
83	PAN080136	0.0176	0.1608
84	PAN090136	0.0012	0.0110
85	PAN100136	0.0077	0.0702
86	PAN105136	0.0052	0.0987
87	PAN110136	0.0285	0.5192
88	PAN115136	0.0211	0.4055
89	PAN120136	0.0009	0.0164
90	PAN125136	0.0018	0.0338
91	PAN130136	0.0052	0.0957
92	PAN120048	0.0146	0.1270
93	PAN130048	0.0049	0.0458
94	PAN120224	0.0118	0.1097
95	PAN130224	0.0029	0.0266
96	PAN120312	0.0044	0.0408
97	PAN130312	0.0056	0.0514
98	PAB000136	0.0300	0.0740
99	PAB100136	0.0310	0.0695
100	PAB125136	0.0253	0.0555

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0661	0.1632
102	PRV000001	0.0220	0.1109
103	PSR000001	0.0221	0.0484
104	PFM000001	0.0057	0.4590
105	PAN000136	0.0004	0.0003
106	PFM000002	0.0100	0.8278
107	EMPTY	0.0005	21.7391
108	EMPTY	0.0089	0.1489
109	EMPTY	0.0001	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0074	4.8684
113	VPW000002	0.0192	17.3756
114	VPW000003	0.0371	26.7677
115	VPW000004	0.0216	27.6923
116	VPW000005	0.0093	6.3525
117	VPW000006	0.0232	12.1785
118	IPW000001	0.2606	20.0786
119	IPW000002	0.0128	1.2500
120	IPW000003	0.4942	25.0825
121	IPW000004	0.2812	69.0231
122	IPW000005	0.3284	78.2837
123	IPW000006	0.0698	34.9000
124	EMPTY	0.0010	4.9751
125	EMPTY	0.0003	2.3256
126	EMPTY	0.0003	1.7751
127	EMPTY	0.0007	5.1471
128	IHT000001	0.0071	24.5675
129	IHT000002	0.0494	26.3046
130	IHT000003	0.0058	5.0086
131	IHT000004	0.0038	2.3299
132	IHT000005	0.0096	6.2581
133	IHT000006	0.0042	1.9971
134	IHT000007	0.0100	7.4794
135	IHT000008	0.0498	35.1695
136	IHT000009	0.0070	28.5714
137	IHT000010	0.0310	28.5978
138	IHT000011	0.0095	12.8032
139	IHT000012	0.0102	14.1864
140	IHT000013	0.0152	58.9147
141	IHT000014	0.0200	16.7785
142	IHT000015	0.0125	19.9362
143	IHT000016	0.0098	166.1017
144	IHT000017	0.0014	0.2235
145	IHT000018	0.0332	35.4701
146	IHT000019	0.0052	7.8669
147	IHT000020	0.0216	25.1455
148	IHT000021	0.0244	2.3793
149	IHT000022	0.0159	407.6923
150	IHT000023	0.0148	14.5957
151	IHT000024	0.0029	0.2812
152	IHT000025	0.0086	2.1978
153	IHT000026	0.0036	3.7657
154	IHT000027	0.0005	0.3660
155	IHT000028	0.0092	17.0687

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0019	1.8009
157	IHT000030	0.0062	7.2177
158	IHT000031	0.0038	1.6703
159	IHT000032	0.0118	7.7530
160	IHT000033	0.0122	0.6213
161	IHT000034	0.0104	8.8737
162	IHT000035	0.0037	2.6638
163	IHT000036	0.0283	28.4422

Velocity 1 = 1.8611 (ft/sec) (+/- 50.6422 %)
 Velocity 2 = 1.8080 (ft/sec) (+/- 19.6358 %)
 Pressure drop = -5.2398 (psi)
 Tsat in = 268.0939 (deg F) Tsat out = 275.5546 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 809.5571 %)
 Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 825.0229 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.6980	78.3338	77.9990	1.7701e-01	1.9000e+00
1	TRF000002	76.4424	76.8646	76.7337	1.2714e-01	1.9000e+00
2	TFM000001	78.7693	79.6134	79.1661	2.0598e-01	1.9001e+00
3	TIN000001	86.2929	87.0280	86.6247	1.6484e-01	1.9002e+00
4	TRV000001	82.8328	83.7769	83.3908	1.9365e-01	1.9001e+00
5	TSR000001	77.2408	77.9801	77.6589	1.5078e-01	1.9000e+00
6	TAO020136	83.9374	84.7804	84.3630	2.6482e-01	1.9001e+00
7	TAO050136	84.4454	85.0755	84.7729	1.7433e-01	1.9001e+00
8	TAO070136	78.0802	78.9277	78.4956	2.2222e-01	1.9000e+00
9	TAO080136	83.0457	83.8845	83.5954	1.7422e-01	1.9001e+00
10	TAO090136	84.0508	84.8903	84.4705	2.1214e-01	1.9001e+00
11	TAO100136	84.0714	84.8074	84.3953	1.5148e-01	1.9001e+00
12	TAO105136	86.3669	87.3121	86.8502	2.1427e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.1839	1.2471e-01	1.9011e+00
14	TAO115136	83.5926	84.8599	84.0700	2.3677e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9988	3.2626e-02	1.9008e+00
16	TAO125136	85.6916	86.3218	85.9900	1.4900e-01	1.9002e+00
17	TAO130136	82.1790	82.8082	82.5431	1.5606e-01	1.9001e+00
18	EMPTY	180.3394	221.0677	202.3969	1.0803e+01	1.9274e+00
19	TAO130048	83.2901	84.1300	83.7524	1.9892e-01	1.9001e+00
20	TAO120224	83.5895	84.4312	83.9936	1.7313e-01	1.9001e+00
21	EMPTY	-233.3901	-115.2806	-168.4692	3.5671e+01	1.9190e+00
22	TAO120312	84.0456	84.6767	84.3444	1.6514e-01	1.9001e+00
23	TAO130312	82.5789	83.3155	82.9409	1.6481e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.6386	1.8682e-01	1.9010e+00
25	TRT070000	84.4174	85.1563	84.7555	1.7046e-01	1.9001e+00
26	TRT100000	85.1687	85.9032	85.4713	1.7942e-01	1.9002e+00
27	TRT120000	84.5039	85.2395	84.8530	1.6643e-01	1.9001e+00
28	TRT125000	87.1889	87.9205	87.5363	2.1052e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9284	1.4130e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9499	2.2354e-01	1.9011e+00
31	TAF050136	85.5604	86.1893	85.8251	1.6713e-01	1.9002e+00
32	TAF070136	84.4561	85.3979	84.9175	2.1363e-01	1.9001e+00
33	TAF080136	84.0665	84.6962	84.4063	1.7012e-01	1.9001e+00
34	TAF090136	83.8748	84.9260	84.3206	2.2411e-01	1.9001e+00
35	TAF100136	84.3926	85.2343	84.7588	1.9960e-01	1.9001e+00
36	TAF105136	85.0949	86.0352	85.5134	2.4513e-01	1.9002e+00
37	TAF110136	82.8447	83.6845	83.3195	1.7403e-01	1.9001e+00
38	TAF115136	86.0592	86.7933	86.3658	1.6389e-01	1.9002e+00
39	TAF120136	85.4383	85.9638	85.7325	1.2740e-01	1.9002e+00
40	TAF125136	84.4033	85.2415	84.8189	1.8697e-01	1.9001e+00
41	TAF130136	84.1699	84.9059	84.5526	1.6285e-01	1.9001e+00
42	TAF120048	84.0441	84.8902	84.4420	2.1623e-01	1.9001e+00
43	TAF130048	84.6578	85.2890	85.0155	1.3764e-01	1.9002e+00
44	TAF120224	84.3391	85.1800	84.8100	1.9723e-01	1.9001e+00
45	TAF130224	84.2955	85.0331	84.5899	1.3454e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	35.9257	37.0772	36.6122	2.3490e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6525	1.1618e-01	1.9010e+00
48	TAI130048	84.6349	85.7913	85.0722	2.8125e-01	1.9002e+00
49	EMPTY	30.3254	31.2749	30.9379	2.0394e-01	1.9006e+00
50	TAI130224	84.0873	85.4571	84.7998	3.6094e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2687	1.8396e-01	1.9010e+00
52	TRR130000	84.0274	85.1815	84.6656	2.4063e-01	1.9001e+00
53	TSI000001	46.0456	46.6961	46.4230	1.4071e-01	1.9004e+00
54	TSI000002	60.4831	61.6606	61.1509	2.7229e-01	1.9001e+00
55	TSO000001	46.3749	47.1371	46.7146	1.8210e-01	1.9004e+00
56	TSO000002	69.7099	70.8801	70.2163	2.3890e-01	1.9000e+00
57	TAF020136	76.7761	77.9435	77.4511	2.1739e-01	1.9000e+00
58	TAF120312	85.7638	86.8122	86.2085	2.8825e-01	1.9002e+00
59	TAF130312	83.4466	84.0764	83.7828	1.4546e-01	1.9001e+00
60	EMPTY	0.3516	0.3613	0.3561	1.6624e-03	0.0000e+00
61	EMPTY	0.3711	0.3760	0.3713	9.6655e-04	0.0000e+00
62	EMPTY	0.3809	0.3857	0.3851	1.7115e-03	0.0000e+00
63	EMPTY	0.4004	0.4053	0.4006	9.6655e-04	0.0000e+00
64	EMPTY	0.2979	0.2979	0.2979	0.0000e+00	0.0000e+00
65	EMPTY	0.3174	0.3223	0.3176	9.6655e-04	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3362	1.7115e-03	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3547	2.3675e-03	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3688	2.4642e-03	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3861	1.3381e-03	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4047	1.6028e-03	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4277	2.4164e-03	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4430	2.2146e-03	0.0000e+00
73	EMPTY	0.4590	0.4688	0.4636	1.5314e-03	0.0000e+00
74	EMPTY	0.4785	0.4785	0.4785	0.0000e+00	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4979	6.9053e-04	0.0000e+00
76	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
77	EMPTY	0.5322	0.5371	0.5323	6.9053e-04	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5562	1.3381e-03	0.0000e+00
79	EMPTY	0.5762	0.5811	0.5809	9.6655e-04	0.0000e+00
80	PAN020136	-18.1919	-17.8104	-18.0378	7.9332e-02	8.7117e-01
81	PAN050136	-34.8928	-34.4351	-34.6761	1.1153e-01	1.6822e+00
82	PAN070136	-23.1495	-22.9207	-23.0183	6.3627e-02	8.7190e-01
83	PAN080136	-11.6128	-11.4602	-11.5457	6.0957e-02	8.7048e-01
84	PAN090136	-11.6771	-11.4482	-11.5490	6.0566e-02	8.7048e-01
85	PAN100136	-11.6560	-11.4271	-11.5477	7.0786e-02	8.7048e-01
86	PAN105136	-5.7001	-5.4712	-5.6131	6.3571e-02	8.7011e-01
87	PAN110136	-5.8491	-5.6202	-5.7896	5.8267e-02	8.7012e-01
88	PAN115136	-5.6202	-5.3914	-5.5363	6.2135e-02	8.7011e-01
89	PAN120136	-5.9125	-5.6836	-5.7767	6.0271e-02	8.7012e-01
90	PAN125136	-5.7203	-5.4915	-5.5983	7.3922e-02	8.7011e-01
91	PAN130136	-5.9188	-5.5374	-5.7250	6.5775e-02	8.7012e-01
92	PAN120048	-12.0569	-11.9043	-11.9516	4.5958e-02	8.7051e-01
93	PAN130048	-11.4594	-11.1542	-11.2717	8.0403e-02	8.7046e-01
94	PAN120224	-11.4888	-11.2599	-11.3759	6.0173e-02	8.7046e-01
95	PAN130224	-11.5844	-11.2792	-11.4394	7.5904e-02	8.7047e-01
96	PAN120312	-11.4713	-11.2424	-11.3538	5.6022e-02	8.7046e-01
97	PAN130312	-11.6219	-11.3168	-11.4434	6.6494e-02	8.7047e-01
98	PAB000136	40.4078	40.5452	40.4893	4.9190e-02	5.8877e-01
99	PAB100136	44.7163	44.8536	44.7822	3.7177e-02	5.9071e-01
100	PAB125136	45.7322	45.9153	45.8283	4.1617e-02	5.9121e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.4389	40.5610	40.4413	1.7263e-02	7.5678e-01
102	PRV000001	19.8194	19.9414	19.8218	1.7263e-02	7.5164e-01
103	PSR000001	45.9395	46.0616	45.9492	3.3453e-02	7.5875e-01
104	PFM000001	0.4216	0.6047	0.4948	6.4074e-02	5.0000e-01
105	PAN000136	-145.9360	-144.1050	-145.0663	4.1617e-01	4.9333e+00
106	PFM000002	0.4484	0.4822	0.4657	9.3412e-03	2.0000e-01
107	EMPTY	-0.0049	0.0049	-0.0024	3.0003e-03	0.0000e+00
108	EMPTY	-7.0654	-5.1221	-5.9315	3.5212e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0004	1.3381e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1403	7.7324e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.1144	8.8233e-02	8.1000e-01
114	VPW000003	0.0800	0.2753	0.1855	9.8332e-02	8.1000e-01
115	VPW000004	-0.2306	0.3553	0.0663	1.1995e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1855	9.8332e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1905	1.0942e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	2.5474	1.1996e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.0094	9.6563e-01	8.1000e+00
120	IPW000003	-0.7987	3.1013	0.8783	1.1150e+00	8.1000e+00
121	IPW000004	0.3000	1.2766	0.3879	2.1364e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.7710	2.8859e-01	2.0000e+00
123	IPW000006	-0.7766	0.6883	-0.0246	3.3029e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0186	2.7902e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0129	2.3675e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0149	2.8608e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0154	3.4681e-03	0.0000e+00
128	IHT000001	-0.2094	0.3766	0.0211	1.0942e-01	4.1000e+00
129	IHT000002	0.0706	0.2659	0.1527	9.7377e-02	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1197	1.1327e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1866	9.9512e-02	4.1000e+00
132	IHT000005	-0.1200	0.2706	0.1573	1.0507e-01	4.1000e+00
133	IHT000006	0.0072	0.5931	0.2298	1.0447e-01	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1416	9.8569e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1298	9.8332e-02	4.1000e+00
136	IHT000009	-0.1200	0.0753	0.0206	8.8585e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1241	9.1354e-02	4.1000e+00
138	IHT000011	0.0000	0.5859	0.1055	1.1975e-01	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.0953	1.0763e-01	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0570	1.0145e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1309	7.7324e-02	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0900	8.8585e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0294	9.7935e-02	4.1000e+00
144	IHT000017	0.3647	0.9506	0.6655	1.6838e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.0858	1.0358e-01	4.1000e+00
146	IHT000019	-0.1247	0.2659	-0.0427	1.0507e-01	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0547	9.6655e-02	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.0723	1.3021e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0039	7.3716e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1209	9.6655e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0275	8.4262e-02	4.1000e+00
152	IHT000025	-0.5553	-0.3600	-0.4147	8.8585e-02	4.1000e+00
153	IHT000026	0.0800	0.2753	0.0956	5.3525e-02	4.1000e+00
154	IHT000027	-0.0353	0.1600	0.1327	6.8459e-02	4.1000e+00
155	IHT000028	-0.2000	0.1906	0.0617	1.0885e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.1172	1.0440e-01	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0781	9.6655e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2197	8.6810e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1561	8.3612e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9753	8.8233e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1172	1.0440e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1350	8.7880e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.1152	9.4125e-02	4.1000e+00

Velocity 1 = 1.8671 (ft/sec) (+/- 50.3019 %)
Velocity 2 = 1.8055 (ft/sec) (+/- 19.6920 %)
Pressure drop = -5.2405 (psi)
Tsat in = 268.0509 (deg F) Tsat out = 275.5386 (deg F)
Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 1074.5469 %)
Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 714.6322 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.6980	78.3338	78.0224	1.6246e-01	1.9000e+00
1	TRF000002	76.4424	76.8646	76.7612	1.3013e-01	1.9000e+00
2	TFM000001	78.7693	79.8239	79.2989	2.0691e-01	1.9001e+00
3	TIN000001	86.3977	87.0280	86.7065	1.6935e-01	1.9002e+00
4	TRV000001	83.1469	83.8824	83.5221	1.7397e-01	1.9001e+00
5	TSR000001	77.3468	77.8741	77.6654	1.3700e-01	1.9000e+00
6	TAO020136	83.9370	84.8852	84.3931	2.4076e-01	1.9001e+00
7	TAO050136	84.4467	85.0755	84.7243	1.6230e-01	1.9001e+00
8	TAO070136	78.2923	79.5635	79.0081	2.6002e-01	1.9001e+00
9	TAO080136	83.3597	83.9900	83.7154	1.4650e-01	1.9001e+00
10	TAO090136	83.9453	84.7860	84.4214	2.0455e-01	1.9001e+00
11	TAO100136	83.9663	84.5975	84.3569	1.4231e-01	1.9001e+00
12	TAO105136	86.4722	87.3121	86.9329	1.8293e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.1864	1.2479e-01	1.9011e+00
14	TAO115136	83.5920	84.4372	84.0257	1.9065e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9564	9.3941e-02	1.9008e+00
16	TAO125136	85.6916	86.3218	85.9404	1.4326e-01	1.9002e+00
17	TAO130136	82.1822	82.8082	82.4873	1.4846e-01	1.9001e+00
18	EMPTY	173.3848	193.7115	185.0396	4.9019e+00	1.9229e+00
19	TAO130048	83.1855	83.8165	83.4904	1.3941e-01	1.9001e+00
20	TAO120224	83.5895	84.3257	83.9804	1.3914e-01	1.9001e+00
21	EMPTY	32.4627	34.3112	33.5382	3.7888e-01	1.9008e+00
22	TAO120312	84.0451	84.7821	84.3054	1.7850e-01	1.9001e+00
23	TAO130312	82.4739	83.2100	82.8348	1.6343e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.6266	1.5443e-01	1.9010e+00
25	TRT070000	84.4174	85.0509	84.6953	1.4075e-01	1.9001e+00
26	TRT100000	85.0645	86.0085	85.5288	1.9849e-01	1.9002e+00
27	TRT120000	84.5039	85.1349	84.8687	1.6493e-01	1.9001e+00
28	TRT125000	87.1889	88.0256	87.5478	1.8083e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9130	1.1201e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9382	1.8772e-01	1.9011e+00
31	TAF050136	85.3512	86.1902	85.8007	1.6842e-01	1.9002e+00
32	TAF070136	84.5610	85.2940	84.8866	1.9368e-01	1.9001e+00
33	TAF080136	84.0671	84.6962	84.3495	1.3216e-01	1.9001e+00
34	TAF090136	83.7696	84.8206	84.3555	2.7957e-01	1.9001e+00
35	TAF100136	84.2881	85.1289	84.7148	1.5838e-01	1.9001e+00
36	TAF105136	84.7834	85.8269	85.3989	2.2172e-01	1.9002e+00
37	TAF110136	82.9497	83.5806	83.2588	1.5813e-01	1.9001e+00
38	TAF115136	85.9544	86.5839	86.3165	1.6173e-01	1.9002e+00
39	TAF120136	85.4394	85.9638	85.7535	1.1742e-01	1.9002e+00
40	TAF125136	84.2992	85.1381	84.7657	1.6156e-01	1.9001e+00
41	TAF130136	84.2748	84.9059	84.5368	1.5784e-01	1.9001e+00
42	TAF120048	83.9370	84.8902	84.4131	2.5005e-01	1.9001e+00
43	TAF130048	84.7632	85.2890	85.0099	1.4482e-01	1.9002e+00
44	TAF120224	84.4439	85.2853	84.7875	1.6454e-01	1.9001e+00
45	TAF130224	84.1887	84.8215	84.5548	1.3463e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.6262	2.2026e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.7064	1.0261e-01	1.9010e+00
48	TAI130048	84.4246	85.5811	85.0533	3.1713e-01	1.9002e+00
49	EMPTY	30.5629	31.2749	30.8681	1.6782e-01	1.9006e+00
50	TAI130224	84.2977	85.2469	84.7562	2.7847e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2414	1.5139e-01	1.9010e+00
52	TRR130000	84.2377	85.1815	84.6658	2.3244e-01	1.9001e+00
53	TSI000001	46.1538	46.8048	46.5169	1.7637e-01	1.9004e+00
54	TSI000002	60.4831	61.4468	61.0576	2.4192e-01	1.9001e+00
55	TSO000001	46.3749	47.2458	46.7681	2.0464e-01	1.9004e+00
56	TSO000002	69.7099	70.8801	70.1984	2.1705e-01	1.9000e+00
57	TAF020136	77.0945	77.9435	77.4799	1.8976e-01	1.9000e+00
58	TAF120312	85.8685	86.7069	86.2304	2.3328e-01	1.9002e+00
59	TAF130312	83.4466	84.0774	83.7385	1.6770e-01	1.9001e+00
60	EMPTY	0.3516	0.3564	0.3551	2.2287e-03	0.0000e+00
61	EMPTY	0.3662	0.3809	0.3700	2.6865e-03	0.0000e+00
62	EMPTY	0.3809	0.3857	0.3833	2.4662e-03	0.0000e+00
63	EMPTY	0.3955	0.4004	0.3999	1.4934e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2971	1.8234e-03	0.0000e+00
65	EMPTY	0.3174	0.3223	0.3175	6.9754e-04	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3345	2.4662e-03	0.0000e+00
67	EMPTY	0.3467	0.3564	0.3523	1.9934e-03	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3667	1.4934e-03	0.0000e+00
69	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4029	2.4662e-03	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4254	1.6172e-03	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4401	1.6172e-03	0.0000e+00
73	EMPTY	0.4541	0.4639	0.4614	2.6600e-03	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4784	6.9754e-04	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4967	2.2287e-03	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5121	1.6172e-03	0.0000e+00
77	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5535	2.3483e-03	0.0000e+00
79	EMPTY	0.5762	0.5811	0.5781	2.4037e-03	0.0000e+00
80	PAN020136	-18.2682	-17.8867	-18.0440	7.5347e-02	8.7117e-01
81	PAN050136	-34.8928	-34.4351	-34.6686	1.2104e-01	1.6822e+00
82	PAN070136	-23.1495	-22.9207	-23.0187	6.2294e-02	8.7190e-01
83	PAN080136	-11.6128	-11.3076	-11.5396	6.9575e-02	8.7048e-01
84	PAN090136	-11.6771	-11.3719	-11.5323	7.3451e-02	8.7048e-01
85	PAN100136	-11.6560	-11.4271	-11.5610	6.1373e-02	8.7048e-01
86	PAN105136	-5.7001	-5.4712	-5.6082	6.7847e-02	8.7011e-01
87	PAN110136	-5.9254	-5.6202	-5.7915	6.5205e-02	8.7012e-01
88	PAN115136	-5.6965	-5.4677	-5.5253	5.9364e-02	8.7011e-01
89	PAN120136	-5.9125	-5.6836	-5.7739	5.0879e-02	8.7012e-01
90	PAN125136	-5.7966	-5.5677	-5.6456	6.1292e-02	8.7011e-01
91	PAN130136	-5.8425	-5.6136	-5.7242	5.1795e-02	8.7012e-01
92	PAN120048	-12.0569	-11.9043	-11.9526	4.0292e-02	8.7051e-01
93	PAN130048	-11.3831	-11.1542	-11.2694	6.9859e-02	8.7046e-01
94	PAN120224	-11.4888	-11.2599	-11.3627	7.0599e-02	8.7046e-01
95	PAN130224	-11.5844	-11.3555	-11.4458	5.9656e-02	8.7047e-01
96	PAN120312	-11.4713	-11.2424	-11.3468	5.0927e-02	8.7046e-01
97	PAN130312	-11.5457	-11.3168	-11.4382	4.9046e-02	8.7047e-01
98	PAB000136	40.3621	40.5452	40.4602	4.2820e-02	5.8875e-01
99	PAB100136	44.6705	44.8079	44.7462	4.3378e-02	5.9069e-01
100	PAB125136	45.7322	45.8695	45.8163	3.5393e-02	5.9120e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3168	40.4389	40.4314	2.9569e-02	7.5678e-01
102	PRV000001	19.5752	19.9414	19.8019	5.5717e-02	7.5163e-01
103	PSR000001	45.8174	46.0616	45.9370	3.0414e-02	7.5874e-01
104	PFM000001	0.4216	0.6047	0.4982	6.0113e-02	5.0000e-01
105	PAN000136	-146.3938	-143.6472	-145.0859	3.9643e-01	4.9334e+00
106	PFM000002	0.4484	0.4822	0.4643	6.3665e-03	2.0000e-01
107	EMPTY	-0.0049	0.0049	-0.0023	3.1679e-03	0.0000e+00
108	EMPTY	-6.7480	-5.7129	-5.9857	2.1108e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1606	8.6187e-02	8.1000e-01
113	VPW000002	0.0753	0.2706	0.1231	8.4860e-02	8.1000e-01
114	VPW000003	-0.1153	0.4706	0.1717	1.1348e-01	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0723	1.0594e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1557	9.6150e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1633	1.1248e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	2.6311	1.1272e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.6386	1.2362e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	0.9921	1.1143e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.3199	1.7146e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.7985	3.0996e-01	2.0000e+00
123	IPW000006	-0.7766	0.6883	0.0605	3.1518e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0185	4.3422e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.3953e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0156	2.9867e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0148	3.4468e-03	0.0000e+00
128	IHT000001	-0.0141	0.1813	0.0218	7.6412e-02	4.1000e+00
129	IHT000002	0.0706	0.2659	0.1503	9.6990e-02	4.1000e+00
130	IHT000003	0.0259	0.2212	0.1057	9.6990e-02	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1832	9.7656e-02	4.1000e+00
132	IHT000005	0.0753	0.4659	0.1471	1.0315e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2184	6.7148e-02	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1436	9.8483e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1357	9.8648e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0474	1.0548e-01	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1194	8.6187e-02	4.1000e+00
138	IHT000011	-0.1953	0.1953	0.0638	1.0076e-01	4.1000e+00
139	IHT000012	-0.0375	0.1578	0.0741	9.7656e-02	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0424	1.1117e-01	4.1000e+00
141	IHT000014	-0.2753	0.3106	0.1273	1.1560e-01	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0911	9.7656e-02	4.1000e+00
143	IHT000016	-0.0800	0.3106	0.0077	1.0594e-01	4.1000e+00
144	IHT000017	0.1694	0.9506	0.6477	1.8726e-01	4.1000e+00
145	IHT000018	-0.2306	0.3553	0.1082	1.1810e-01	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.0689	9.7656e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0643	9.8153e-02	4.1000e+00
148	IHT000021	-1.1934	-0.8028	-0.9742	1.4170e-01	4.1000e+00
149	IHT000022	0.0000	0.1953	0.0199	5.9734e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1441	7.8092e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	1.0324	9.5812e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3720	8.3705e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0959	6.7148e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1401	8.2141e-02	4.1000e+00
155	IHT000028	-0.0047	0.3859	0.0910	1.0640e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.1196	1.0409e-01	4.1000e+00
157	IHT000030	-0.1953	0.3906	0.1156	1.1219e-01	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2393	8.4477e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1560	8.4477e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9713	6.2908e-02	4.1000e+00
161	IHT000034	0.0000	0.1953	0.1515	8.2338e-02	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1391	9.2715e-02	4.1000e+00
163	IHT000036	0.0800	0.2753	0.1238	8.2338e-02	4.1000e+00

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Velocity 1 = 0.006000 (ft/sec)

Velocity 2 = 0.002500 (ft/sec)

Pressure Drop = 0.000700 (psi)

Tsat in = 0.042999 (deg F) Tsat out = 0.015991 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0234	0.0300
1	TRF000002	0.0275	0.0358
2	TFM000001	0.1328	0.1677
3	TIN000001	0.0818	0.0944
4	TRV000001	0.1313	0.1575
5	TSR000001	0.0065	0.0084
6	TAO020136	0.0301	0.0357
7	TAO050136	0.0486	0.0573
8	TAO070136	0.5125	0.6529
9	TAO080136	0.1200	0.1436
10	TAO090136	0.0491	0.0581
11	TAO100136	0.0384	0.0455
12	TAO105136	0.0827	0.0952
13	EMPTY	0.0025	0.0062
14	TAO115136	0.0443	0.0527
15	EMPTY	0.0424	0.1211
16	TAO125136	0.0496	0.0577
17	TAO130136	0.0558	0.0676
18	EMPTY	17.3573	8.5759
19	TAO130048	0.2620	0.3128
20	TAO120224	0.0132	0.0157
21	EMPTY	202.0074	119.9076
22	TAO120312	0.0390	0.0462
23	TAO130312	0.1061	0.1279
24	EMPTY	0.0120	0.0319
25	TRT070000	0.0602	0.0710
26	TRT100000	0.0575	0.0673
27	TRT120000	0.0157	0.0185
28	TRT125000	0.0115	0.0131
29	EMPTY	0.0154	0.0406
30	EMPTY	0.0117	0.0293
31	TAF050136	0.0244	0.0284
32	TAF070136	0.0309	0.0364
33	TAF080136	0.0568	0.0673
34	TAF090136	0.0349	0.0414
35	TAF100136	0.0440	0.0519
36	TAF105136	0.1145	0.1339
37	TAF110136	0.0607	0.0729
38	TAF115136	0.0493	0.0571
39	TAF120136	0.0210	0.0245
40	TAF125136	0.0532	0.0627
41	TAF130136	0.0158	0.0187
42	TAF120048	0.0289	0.0342
43	TAF130048	0.0056	0.0066
44	TAF120224	0.0225	0.0265
45	TAF130224	0.0351	0.0415

#	Name	Abs Diff	%Diff
46	EMPTY	0.0140	0.0382
47	EMPTY	0.0539	0.1432
48	TAI130048	0.0189	0.0222
49	EMPTY	0.0698	0.2256
50	TAI130224	0.0436	0.0514
51	EMPTY	0.0273	0.0713
52	TRR130000	0.0002	0.0002
53	TSI000001	0.0939	0.2023
54	TSI000002	0.0933	0.1526
55	TSO000001	0.0535	0.1145
56	TSO000002	0.0179	0.0255
57	TAF020136	0.0288	0.0372
58	TAF120312	0.0219	0.0254
59	TAF130312	0.0443	0.0529
60	EMPTY	0.0010	0.2808
61	EMPTY	0.0013	0.3501
62	EMPTY	0.0018	0.4674
63	EMPTY	0.0007	0.1747
64	EMPTY	0.0008	0.2685
65	EMPTY	0.0001	0.0315
66	EMPTY	0.0017	0.5056
67	EMPTY	0.0024	0.6766
68	EMPTY	0.0021	0.5694
69	EMPTY	0.0004	0.1036
70	EMPTY	0.0018	0.4448
71	EMPTY	0.0023	0.5378
72	EMPTY	0.0029	0.6546
73	EMPTY	0.0022	0.4745
74	EMPTY	0.0001	0.0209
75	EMPTY	0.0012	0.2410
76	EMPTY	0.0006	0.1170
77	EMPTY	0.0001	0.0188
78	EMPTY	0.0027	0.4854
79	EMPTY	0.0028	0.4820
80	PAN020136	0.0062	0.0344
81	PAN050136	0.0075	0.0216
82	PAN070136	0.0004	0.0017
83	PAN080136	0.0061	0.0528
84	PAN090136	0.0167	0.1446
85	PAN100136	0.0133	0.1152
86	PAN105136	0.0049	0.0873
87	PAN110136	0.0019	0.0328
88	PAN115136	0.0110	0.1987
89	PAN120136	0.0028	0.0485
90	PAN125136	0.0473	0.8449
91	PAN130136	0.0008	0.0140
92	PAN120048	0.0010	0.0084
93	PAN130048	0.0023	0.0204
94	PAN120224	0.0132	0.1160
95	PAN130224	0.0064	0.0559
96	PAN120312	0.0070	0.0617
97	PAN130312	0.0052	0.0454
98	PAB000136	0.0291	0.0719
99	PAB100136	0.0360	0.0804
100	PAB125136	0.0120	0.0262

#	Name	Abs Diff	%Diff
101	PIN000001	0.0099	0.0245
102	PRV000001	0.0199	0.1004
103	PSR000001	0.0122	0.0265
104	PFM000001	0.0034	0.6871
105	PAN000136	0.0196	0.0135
106	PFM000002	0.0014	0.3006
107	EMPTY	0.0001	4.1667
108	EMPTY	0.0542	0.9138
109	EMPTY	0.0001	50.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	100.0000
112	VPW000001	0.0203	14.4690
113	VPW000002	0.0087	7.6049
114	VPW000003	0.0138	7.4394
115	VPW000004	0.0060	9.0498
116	VPW000005	0.0298	16.0647
117	VPW000006	0.0272	14.2782
118	IPW000001	0.0837	3.2857
119	IPW000002	0.6292	6693.6172
120	IPW000003	0.1138	12.9568
121	IPW000004	0.0680	17.5303
122	IPW000005	0.0275	3.5668
123	IPW000006	0.0851	345.9349
124	EMPTY	0.0001	0.5376
125	EMPTY	0.0005	3.8760
126	EMPTY	0.0007	4.6980
127	EMPTY	0.0006	3.8961
128	IHT000001	0.0007	3.3175
129	IHT000002	0.0024	1.5717
130	IHT000003	0.0140	11.6959
131	IHT000004	0.0034	1.8221
132	IHT000005	0.0102	6.4844
133	IHT000006	0.0114	4.9608
134	IHT000007	0.0020	1.4124
135	IHT000008	0.0059	4.5455
136	IHT000009	0.0268	130.0971
137	IHT000010	0.0047	3.7873
138	IHT000011	0.0417	39.5261
139	IHT000012	0.0212	22.2455
140	IHT000013	0.0146	25.6140
141	IHT000014	0.0036	2.7502
142	IHT000015	0.0011	1.2222
143	IHT000016	0.0217	73.8095
144	IHT000017	0.0178	2.6747
145	IHT000018	0.0224	26.1072
146	IHT000019	0.0262	61.3583
147	IHT000020	0.0096	17.5503
148	IHT000021	0.0981	9.1486
149	IHT000022	0.0160	410.2564
150	IHT000023	0.0232	19.1894
151	IHT000024	0.0049	0.4769
152	IHT000025	0.0427	10.2966
153	IHT000026	0.0003	0.3138
154	IHT000027	0.0074	5.5765
155	IHT000028	0.0293	47.4878

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0024	2.0478
157	IHT000030	0.0375	48.0154
158	IHT000031	0.0196	8.9213
159	IHT000032	0.0001	0.0641
160	IHT000033	0.0040	0.2025
161	IHT000034	0.0343	29.2662
162	IHT000035	0.0041	3.0370
163	IHT000036	0.0086	7.4653

Velocity 1 = 9.6827 (ft/sec) (+/- 3.8758 %)
Velocity 2 = 9.6931 (ft/sec) (+/- 3.5259 %)
Pressure drop = -1.2692 (psi)
Tsats in = 268.1937 (deg F) Tsats out = 270.3373 (deg F)
Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 586.2535 %)
Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 1013.7263 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.6980	78.3338	78.1049	1.8084e-01	1.9000e+00
1	TRF000002	76.6535	77.0756	76.8603	1.5069e-01	1.9000e+00
2	TFM000001	79.0858	80.0343	79.6107	1.9675e-01	1.9001e+00
3	TIN000001	86.7124	87.3426	87.0089	1.8574e-01	1.9002e+00
4	TRV000001	83.2524	84.1968	83.6993	1.9398e-01	1.9001e+00
5	TSR000001	77.4523	78.0855	77.7499	1.7404e-01	1.9000e+00
6	TAO020136	84.2531	85.0955	84.6683	2.3827e-01	1.9001e+00
7	TAO050136	84.7599	85.5982	85.1560	1.7231e-01	1.9002e+00
8	TAO070136	78.3977	79.7746	79.0400	3.0969e-01	1.9001e+00
9	TAO080136	83.6736	84.5125	84.0285	1.8703e-01	1.9001e+00
10	TAO090136	84.4703	85.2053	84.9049	2.1305e-01	1.9001e+00
11	TAO100136	84.4917	85.1221	84.8216	1.6578e-01	1.9001e+00
12	TAO105136	86.8917	87.7320	87.3142	2.2391e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.2344	1.3756e-01	1.9011e+00
14	TAO115136	84.0155	85.0701	84.5112	2.2485e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9758	7.5729e-02	1.9008e+00
16	TAO125136	86.2155	86.8454	86.4490	1.4112e-01	1.9002e+00
17	TAO130136	84.3568	84.8801	84.6317	1.5212e-01	1.9001e+00
18	EMPTY	68.9852	74.9741	71.9122	1.5494e+00	1.9035e+00
19	TAO130048	85.4902	86.2233	85.7811	1.5033e-01	1.9002e+00
20	TAO120224	82.1170	82.8541	82.4646	2.0535e-01	1.9001e+00
21	EMPTY	-591.2913	-590.8857	-591.2749	8.0284e-02	2.1225e+00
22	TAO120312	84.4664	85.2027	84.8260	1.6603e-01	1.9001e+00
23	TAO130312	84.8870	85.6221	85.2297	1.8943e-01	1.9002e+00
24	EMPTY	37.3074	37.9974	37.5788	1.8409e-01	1.9010e+00
25	TRT070000	84.9456	85.5794	85.2012	1.5517e-01	1.9002e+00
26	TRT100000	85.2741	86.3226	85.8801	2.4182e-01	1.9002e+00
27	TRT120000	84.9247	85.6595	85.2415	1.6371e-01	1.9002e+00
28	TRT125000	87.6076	88.4420	88.0766	1.8056e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9376	1.1199e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9591	2.0319e-01	1.9011e+00
31	TAF050136	85.8744	86.7121	86.2124	1.8963e-01	1.9002e+00
32	TAF070136	84.9800	85.9213	85.3210	2.0894e-01	1.9002e+00
33	TAF080136	84.4854	85.0095	84.7596	1.2700e-01	1.9001e+00
34	TAF090136	84.2952	85.2407	84.6967	2.2324e-01	1.9001e+00
35	TAF100136	84.7078	85.5494	85.1226	2.0089e-01	1.9002e+00
36	TAF105136	85.2002	86.3481	85.8914	2.6147e-01	1.9002e+00
37	TAF110136	83.2647	84.1042	83.6866	1.6088e-01	1.9001e+00
38	TAF115136	86.3734	87.2125	86.7409	1.9783e-01	1.9002e+00
39	TAF120136	85.8569	86.4863	86.1614	1.7101e-01	1.9002e+00
40	TAF125136	85.0308	85.6604	85.2811	1.6659e-01	1.9002e+00
41	TAF130136	84.5903	85.4307	84.9790	1.6613e-01	1.9002e+00
42	TAF120048	84.4675	85.2074	84.8331	1.8391e-01	1.9001e+00
43	TAF130048	85.1831	85.8140	85.4673	1.6063e-01	1.9002e+00
44	TAF120224	84.7596	85.6003	85.2283	2.1042e-01	1.9002e+00
45	TAF130224	84.7175	85.3494	85.0441	1.4324e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5615	2.3057e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6709	1.1468e-01	1.9010e+00
48	TAI130048	84.9500	86.1061	85.4316	3.0544e-01	1.9002e+00
49	EMPTY	30.5629	31.2749	30.8999	1.9822e-01	1.9006e+00
50	TAI130224	84.6145	85.7726	85.2611	3.0017e-01	1.9002e+00
51	EMPTY	37.9974	38.6870	38.2963	1.6905e-01	1.9010e+00
52	TRR130000	84.5516	85.6011	85.0117	2.1812e-01	1.9002e+00
53	TSI000001	46.0460	46.6965	46.3951	1.8085e-01	1.9004e+00
54	TSI000002	62.5146	63.4767	63.0086	2.5533e-01	1.9000e+00
55	TSO000001	46.3749	47.0268	46.6987	1.6945e-01	1.9004e+00
56	TSO000002	69.9227	70.8801	70.4141	2.3530e-01	1.9000e+00
57	TAF020136	77.2005	77.9435	77.5546	1.9010e-01	1.9000e+00
58	TAF120312	86.0784	87.1260	86.6545	2.7676e-01	1.9002e+00
59	TAF130312	83.7610	84.6009	84.2251	1.7629e-01	1.9001e+00
60	EMPTY	0.3613	0.3662	0.3642	2.4344e-03	0.0000e+00
61	EMPTY	0.3760	0.3857	0.3789	2.6100e-03	0.0000e+00
62	EMPTY	0.3906	0.3955	0.3913	1.7115e-03	0.0000e+00
63	EMPTY	0.4053	0.4102	0.4094	1.8082e-03	0.0000e+00
64	EMPTY	0.3027	0.3076	0.3037	1.9730e-03	0.0000e+00
65	EMPTY	0.3223	0.3271	0.3262	1.9730e-03	0.0000e+00
66	EMPTY	0.3418	0.3418	0.3418	0.0000e+00	0.0000e+00
67	EMPTY	0.3564	0.3662	0.3613	9.8648e-04	0.0000e+00
68	EMPTY	0.3711	0.3760	0.3759	6.9053e-04	0.0000e+00
69	EMPTY	0.3906	0.3955	0.3951	1.3381e-03	0.0000e+00
70	EMPTY	0.4102	0.4150	0.4103	6.9053e-04	0.0000e+00
71	EMPTY	0.4297	0.4346	0.4344	9.6655e-04	0.0000e+00
72	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
73	EMPTY	0.4639	0.4736	0.4688	9.8648e-04	0.0000e+00
74	EMPTY	0.4834	0.4883	0.4836	9.6655e-04	0.0000e+00
75	EMPTY	0.4980	0.5078	0.5029	9.8648e-04	0.0000e+00
76	EMPTY	0.5176	0.5225	0.5177	6.9053e-04	0.0000e+00
77	EMPTY	0.5371	0.5420	0.5373	9.6655e-04	0.0000e+00
78	EMPTY	0.5615	0.5664	0.5616	6.9053e-04	0.0000e+00
79	EMPTY	0.5811	0.5957	0.5860	1.5566e-03	0.0000e+00
80	PAN020136	-5.0693	-3.5435	-4.3842	3.4241e-01	8.7007e-01
81	PAN050136	-9.8684	-8.4951	-9.2214	2.2349e-01	1.6802e+00
82	PAN070136	-4.9153	-4.2286	-4.6284	1.5302e-01	8.7008e-01
83	PAN080136	-3.5256	-3.2205	-3.3761	8.5764e-02	8.7004e-01
84	PAN090136	-2.9796	-2.5981	-2.7828	8.4551e-02	8.7003e-01
85	PAN100136	-3.1874	-2.8059	-3.0226	9.2943e-02	8.7003e-01
86	PAN105136	-1.5802	-1.1987	-1.3788	8.5487e-02	8.7001e-01
87	PAN110136	-1.5004	-1.1952	-1.3615	6.8396e-02	8.7001e-01
88	PAN115136	-0.4323	-0.0508	-0.2629	9.9044e-02	8.7000e-01
89	PAN120136	-2.0215	-1.6400	-1.8124	8.4157e-02	8.7001e-01
90	PAN125136	-1.2953	-0.9901	-1.1870	7.7207e-02	8.7001e-01
91	PAN130136	-1.5701	-1.4175	-1.4984	5.4299e-02	8.7001e-01
92	PAN120048	-3.2068	-2.8253	-3.0542	7.8595e-02	8.7003e-01
93	PAN130048	-3.0670	-2.6093	-2.8229	1.0790e-01	8.7003e-01
94	PAN120224	-2.1809	-1.7994	-2.0237	8.6386e-02	8.7001e-01
95	PAN130224	-3.2683	-2.7343	-2.9326	9.3758e-02	8.7003e-01
96	PAN120312	-2.6975	-2.1635	-2.4061	1.1082e-01	8.7002e-01
97	PAN130312	-3.1533	-2.8481	-3.0206	8.8290e-02	8.7003e-01
98	PAB000136	40.3621	40.7203	40.5571	6.9706e-02	5.8880e-01
99	PAB100136	41.6951	41.8782	41.8104	4.2622e-02	5.8934e-01
100	PAB125136	41.9785	42.1159	42.0362	4.1162e-02	5.8944e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3168	40.8051	40.5146	1.1539e-01	7.5681e-01
102	PRV000001	19.5752	19.6973	19.5801	2.4164e-02	7.5160e-01
103	PSR000001	41.5450	41.6670	41.6524	4.0071e-02	7.5719e-01
104	PFM000001	14.2460	14.7038	14.4969	1.0913e-01	5.0131e-01
105	PAN000136	-37.9038	-31.9529	-35.1389	1.2406e+00	4.9208e+00
106	PFM000002	14.4033	14.6567	14.5283	5.9902e-02	2.0327e-01
107	EMPTY	-0.0049	0.0049	0.0047	1.3811e-03	0.0000e+00
108	EMPTY	-7.9834	-5.7031	-6.2295	4.5430e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0037	2.1065e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	0.1247	0.3200	0.1755	8.6541e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.0831	9.6332e-02	8.1000e-01
114	VPW0000003	0.0800	0.4706	0.1737	1.1327e-01	8.1000e-01
115	VPW0000004	-0.0353	0.1600	0.0819	9.6655e-02	8.1000e-01
116	VPW0000005	0.0800	0.4706	0.1542	1.0358e-01	8.1000e-01
117	VPW0000006	-0.0400	0.3506	0.1709	8.6810e-02	8.1000e-01
118	IPW0000001	-1.5525	2.3522	1.1027	1.0255e+00	8.1000e+00
119	IPW0000002	0.3996	4.3022	1.2192	1.0497e+00	8.1000e+00
120	IPW0000003	1.1513	5.0513	2.5553	1.1171e+00	8.1000e+00
121	IPW0000004	0.3000	0.7883	0.6320	2.3008e-01	2.0000e+00
122	IPW0000005	-0.0883	0.8882	0.1461	2.6541e-01	2.0000e+00
123	IPW0000006	-0.2883	1.1766	0.3367	2.9660e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0193	3.4116e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.6762e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0173	2.6488e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0139	3.1752e-03	0.0000e+00
128	IHT0000001	-0.2094	0.1813	0.0484	1.0014e-01	4.1000e+00
129	IHT0000002	0.0706	0.2659	0.1370	9.3461e-02	4.1000e+00
130	IHT0000003	0.0259	0.4166	0.1197	1.0617e-01	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1514	8.3612e-02	4.1000e+00
132	IHT0000005	-0.1200	0.2706	0.1613	1.0559e-01	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.2181	9.5357e-02	4.1000e+00
134	IHT0000007	0.0400	0.2353	0.1377	9.8648e-02	4.1000e+00
135	IHT0000008	0.0400	0.2353	0.1377	9.8648e-02	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0480	8.8321e-02	4.1000e+00
137	IHT0000010	-0.0400	0.3506	0.1241	9.1354e-02	4.1000e+00
138	IHT0000011	0.0000	0.1953	0.0742	9.5765e-02	4.1000e+00
139	IHT0000012	-0.0375	0.3531	0.0875	1.0992e-01	4.1000e+00
140	IHT0000013	-0.2047	0.1859	0.0297	9.6655e-02	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1192	9.2456e-02	4.1000e+00
142	IHT0000015	-0.1600	0.2306	0.0783	9.0756e-02	4.1000e+00
143	IHT0000016	-0.0800	0.1153	0.0411	9.5765e-02	4.1000e+00
144	IHT0000017	0.1694	1.1459	0.6537	2.2055e-01	4.1000e+00
145	IHT0000018	-0.0353	0.3553	0.0702	1.0595e-01	4.1000e+00
146	IHT0000019	-0.1247	0.0706	-0.0700	8.8585e-02	4.1000e+00
147	IHT0000020	-0.0234	0.3672	0.0781	1.0617e-01	4.1000e+00
148	IHT0000021	-1.3888	-0.8028	-1.0684	1.4637e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	0.0078	6.7888e-02	4.1000e+00
150	IHT0000023	-0.0353	0.3553	0.1209	8.8233e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	1.0431	1.0014e-01	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3991	9.6655e-02	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.1034	8.4997e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1366	7.5283e-02	4.1000e+00
155	IHT0000028	-0.2000	0.1906	0.0617	1.0145e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.0742	9.5765e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0898	9.8332e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2314	1.0052e-01	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1522	8.7880e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-2.0300	1.0470e-01	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1367	9.8648e-02	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1467	1.0625e-01	4.1000e+00
163	IHT000036	0.0800	0.2753	0.1152	7.5798e-02	4.1000e+00

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sum2

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Velocity 1 = 9.6818 (ft/sec) (+/- 3.8759 %)
 Velocity 2 = 9.6921 (ft/sec) (+/- 3.5259 %)
 Pressure drop = -1.2557 (psi)
 Tsat in = 267.9613 (deg F) Tsat out = 270.1013 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 929.7858 %)
 Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 895.9084 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.6980	78.5457	78.1522	1.8353e-01	1.9000e+00
1	TRF000002	76.6535	77.0756	76.8258	1.1129e-01	1.9000e+00
2	TFM000001	78.9806	79.8239	79.4174	2.1930e-01	1.9001e+00
3	TIN000001	86.5028	87.1332	86.8158	1.7995e-01	1.9002e+00
4	TRV000001	83.2524	83.9870	83.6444	1.8519e-01	1.9001e+00
5	TSR000001	77.4523	78.0845	77.7797	1.3995e-01	1.9000e+00
6	TAO020136	84.2531	85.2012	84.7392	2.2836e-01	1.9001e+00
7	TAO050136	84.6563	85.3898	84.9659	1.3876e-01	1.9002e+00
8	TAO070136	78.2923	79.2455	78.8023	2.4815e-01	1.9001e+00
9	TAO080136	83.6736	84.1988	83.9059	1.2678e-01	1.9001e+00
10	TAO090136	84.2606	84.9957	84.7149	1.8099e-01	1.9001e+00
11	TAO100136	84.2818	84.9119	84.6592	1.3212e-01	1.9001e+00
12	TAO105136	86.6823	87.5225	87.0937	2.2056e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.2285	1.1470e-01	1.9011e+00
14	TAO115136	83.8035	84.7540	84.3122	2.3375e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9799	7.0556e-02	1.9008e+00
16	TAO125136	86.0064	86.5313	86.2679	1.2873e-01	1.9002e+00
17	TAO130136	84.1502	84.7785	84.5043	1.5207e-01	1.9001e+00
18	EMPTY	57.5682	61.6135	59.1200	9.0650e-01	1.9024e+00
19	TAO130048	85.3844	85.9095	85.6207	1.4297e-01	1.9002e+00
20	TAO120224	81.8014	82.5387	82.2570	1.6565e-01	1.9001e+00
21	EMPTY	-591.6969	-591.2913	-591.6557	1.2404e-01	2.1228e+00
22	TAO120312	84.3609	84.9924	84.6682	1.5756e-01	1.9001e+00
23	TAO130312	84.7833	85.4126	85.0850	1.3834e-01	1.9002e+00
24	EMPTY	37.0772	37.7675	37.5750	1.8987e-01	1.9010e+00
25	TRT070000	84.6291	85.3679	85.0381	1.4223e-01	1.9002e+00
26	TRT100000	85.2741	86.2179	85.7836	1.9853e-01	1.9002e+00
27	TRT120000	84.8188	85.5547	85.1367	1.5830e-01	1.9002e+00
28	TRT125000	87.3987	88.2338	87.8483	2.0694e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9130	1.3020e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9241	2.2859e-01	1.9011e+00
31	TAF050136	85.6657	86.3993	86.0466	1.7988e-01	1.9002e+00
32	TAF070136	84.6659	85.5047	85.1322	2.0382e-01	1.9002e+00
33	TAF080136	84.2774	85.0101	84.5994	1.7067e-01	1.9001e+00
34	TAF090136	83.9803	85.1359	84.5764	2.3815e-01	1.9001e+00
35	TAF100136	84.4980	85.3396	84.9616	1.7697e-01	1.9002e+00
36	TAF105136	85.3056	86.3486	85.7122	2.5234e-01	1.9002e+00
37	TAF110136	83.1602	83.7900	83.5307	1.5911e-01	1.9001e+00
38	TAF115136	86.1644	86.8985	86.5882	1.8652e-01	1.9002e+00
39	TAF120136	85.6484	86.2780	86.0376	1.2123e-01	1.9002e+00
40	TAF125136	84.7185	85.3469	85.0882	1.5591e-01	1.9002e+00
41	TAF130136	84.4856	85.0113	84.7921	1.3202e-01	1.9001e+00
42	TAF120048	84.1490	85.2074	84.6352	2.1373e-01	1.9001e+00
43	TAF130048	85.0788	85.6044	85.3552	1.3350e-01	1.9002e+00
44	TAF120224	84.7596	85.2853	85.0600	1.2880e-01	1.9002e+00
45	TAF130224	84.5058	85.1384	84.8587	1.6334e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5792	2.3194e-01	1.9009e+00
47	EMPTY	37.3074	37.7675	37.6548	1.2531e-01	1.9010e+00
48	TAI130048	84.7398	86.0008	85.3086	2.9095e-01	1.9002e+00
49	EMPTY	30.5629	31.2749	30.8778	1.9005e-01	1.9006e+00
50	TAI130224	84.4031	85.4577	84.9905	2.9345e-01	1.9002e+00
51	EMPTY	37.9974	38.4572	38.2273	1.7558e-01	1.9010e+00
52	TRR130000	84.5516	85.2869	84.9036	2.0715e-01	1.9001e+00
53	TSI000001	46.1543	46.8042	46.4046	1.4714e-01	1.9004e+00
54	TSI000002	62.3015	63.3700	62.8749	2.3967e-01	1.9000e+00
55	TSO000001	46.2650	46.9191	46.6765	1.6814e-01	1.9004e+00
56	TSO000002	69.8161	70.8801	70.4741	2.1897e-01	1.9000e+00
57	TAF020136	77.3060	78.0502	77.6032	2.0446e-01	1.9000e+00
58	TAF120312	85.8685	87.0214	86.4380	2.7041e-01	1.9002e+00
59	TAF130312	83.7615	84.4960	84.0318	1.4844e-01	1.9001e+00
60	EMPTY	0.3564	0.3613	0.3596	2.3483e-03	0.0000e+00
61	EMPTY	0.3711	0.3760	0.3755	1.4934e-03	0.0000e+00
62	EMPTY	0.3857	0.3906	0.3869	2.1215e-03	0.0000e+00
63	EMPTY	0.4004	0.4053	0.4047	1.6172e-03	0.0000e+00
64	EMPTY	0.2979	0.3076	0.3027	9.9670e-04	0.0000e+00
65	EMPTY	0.3223	0.3271	0.3224	6.9754e-04	0.0000e+00
66	EMPTY	0.3369	0.3418	0.3409	1.9103e-03	0.0000e+00
67	EMPTY	0.3564	0.3613	0.3578	2.2287e-03	0.0000e+00
68	EMPTY	0.3711	0.3760	0.3735	2.4662e-03	0.0000e+00
69	EMPTY	0.3906	0.3955	0.3910	1.3508e-03	0.0000e+00
70	EMPTY	0.4053	0.4102	0.4081	2.4414e-03	0.0000e+00
71	EMPTY	0.4297	0.4346	0.4309	2.1215e-03	0.0000e+00
72	EMPTY	0.4395	0.4492	0.4452	2.1547e-03	0.0000e+00
73	EMPTY	0.4639	0.4688	0.4661	2.4538e-03	0.0000e+00
74	EMPTY	0.4785	0.4834	0.4833	6.9754e-04	0.0000e+00
75	EMPTY	0.4980	0.5029	0.5017	2.1215e-03	0.0000e+00
76	EMPTY	0.5127	0.5176	0.5170	1.6172e-03	0.0000e+00
77	EMPTY	0.5322	0.5420	0.5368	1.5467e-03	0.0000e+00
78	EMPTY	0.5566	0.5615	0.5588	2.4538e-03	0.0000e+00
79	EMPTY	0.5811	0.5859	0.5814	1.1827e-03	0.0000e+00
80	PAN020136	-4.8405	-3.6960	-4.3531	2.4860e-01	8.7007e-01
81	PAN050136	-9.4106	-8.6477	-9.1024	2.0540e-01	1.6802e+00
82	PAN070136	-4.7627	-4.2286	-4.5307	1.1333e-01	8.7007e-01
83	PAN080136	-3.5256	-3.1442	-3.3326	9.0944e-02	8.7004e-01
84	PAN090136	-2.9796	-2.5219	-2.7538	9.3388e-02	8.7003e-01
85	PAN100136	-3.1111	-2.8059	-2.9756	8.8461e-02	8.7003e-01
86	PAN105136	-1.5039	-1.1224	-1.3295	8.5299e-02	8.7001e-01
87	PAN110136	-1.5004	-1.1952	-1.3509	6.4134e-02	8.7001e-01
88	PAN115136	-0.5085	-0.0508	-0.2797	8.6709e-02	8.7000e-01
89	PAN120136	-1.9452	-1.5637	-1.7630	9.7027e-02	8.7001e-01
90	PAN125136	-1.2953	-1.0664	-1.1754	7.3046e-02	8.7000e-01
91	PAN130136	-1.6464	-1.4175	-1.5311	6.6297e-02	8.7001e-01
92	PAN120048	-3.2068	-2.8253	-3.0168	9.7409e-02	8.7003e-01
93	PAN130048	-2.9907	-2.5330	-2.7712	1.0287e-01	8.7003e-01
94	PAN120224	-2.1809	-1.7994	-1.9894	9.6156e-02	8.7001e-01
95	PAN130224	-3.0394	-2.7343	-2.9086	9.0808e-02	8.7003e-01
96	PAN120312	-2.5449	-2.1635	-2.3939	8.4571e-02	8.7002e-01
97	PAN130312	-3.2296	-2.8481	-3.0085	7.9782e-02	8.7003e-01
98	PAB000136	40.2705	40.5910	40.3994	7.7434e-02	5.8873e-01
99	PAB100136	41.5577	41.7409	41.6530	4.4653e-02	5.8927e-01
100	PAB125136	41.7954	41.9785	41.8711	5.0795e-02	5.8937e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1948	40.6830	40.3990	9.7744e-02	7.5677e-01
102	PRV000001	19.5752	19.6973	19.6674	5.3037e-02	7.5161e-01
103	PSR000001	41.3008	41.6670	41.4802	7.0925e-02	7.5714e-01
104	PFM000001	14.1545	14.7954	14.4945	1.3215e-01	5.0131e-01
105	PAN000136	-36.9883	-32.4106	-34.7649	1.0776e+00	4.9208e+00
106	PFM000002	14.3189	14.6905	14.5257	6.7449e-02	2.0327e-01
107	EMPTY	-0.0049	0.0049	0.0046	1.5467e-03	0.0000e+00
108	EMPTY	-7.8662	-5.2441	-6.1103	3.6532e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0032	2.5510e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	0.1247	0.3200	0.1566	7.2937e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0992	1.0268e-01	8.1000e-01
114	VPW000003	0.0800	0.2753	0.1956	9.6990e-02	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0524	9.8153e-02	8.1000e-01
116	VPW000005	-0.1153	0.2753	0.1278	9.3759e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1752	1.0731e-01	8.1000e-01
118	IPW000001	0.3998	2.3522	1.5553	9.6951e-01	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.7580	9.4872e-01	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.1513	9.7500e-01	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.3100	2.3353e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.4498	2.6825e-01	2.0000e+00
123	IPW000006	-0.7766	0.6883	0.0605	3.5937e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0199	3.2811e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.3740e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0156	3.3026e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0143	3.5109e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0298	9.1482e-02	4.1000e+00
129	IHT000002	-0.1247	0.2659	0.1543	1.0548e-01	4.1000e+00
130	IHT000003	0.0259	0.2212	0.1296	9.8483e-02	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1792	8.5810e-02	4.1000e+00
132	IHT000005	0.0753	0.4659	0.1630	1.0594e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2184	7.8092e-02	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1556	9.6990e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1596	9.6150e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0115	1.0076e-01	4.1000e+00
137	IHT000010	-0.0400	0.1553	0.1314	6.4688e-02	4.1000e+00
138	IHT000011	-0.1953	0.1953	0.0638	1.0076e-01	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.1140	9.9792e-02	4.1000e+00
140	IHT000013	-0.0094	0.1859	0.0305	7.9532e-02	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1352	9.9629e-02	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0552	8.2141e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0077	9.8153e-02	4.1000e+00
144	IHT000017	0.3647	1.1459	0.6596	2.3627e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.1002	9.0949e-02	4.1000e+00
146	IHT000019	-0.1247	0.0706	-0.0649	9.0949e-02	4.1000e+00
147	IHT000020	-0.2188	0.1719	0.0603	1.0548e-01	4.1000e+00
148	IHT000021	-1.1934	-0.6075	-0.9702	1.5441e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	-0.0080	7.9328e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1162	9.9792e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0683	9.8153e-02	4.1000e+00
152	IHT000025	-0.5553	-0.3600	-0.4078	8.4860e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0920	6.1868e-02	4.1000e+00
154	IHT000027	-0.0353	0.1600	0.1321	6.9053e-02	4.1000e+00
155	IHT000028	-0.0047	0.3859	0.0750	1.0486e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.0917	9.8483e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0797	9.6990e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2234	1.0851e-01	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1441	9.6318e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9952	7.1817e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1036	1.0625e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1352	1.0517e-01	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.1119	1.0044e-01	4.1000e+00

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Velocity 1 = 0.000900 (ft/sec)

Velocity 2 = 0.001000 (ft/sec)

Pressure Drop = 0.013500 (psi)

Tsat in = 0.232391 (deg F) Tsat out = 0.236023 (deg F)

Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF0000001	0.0473	0.0606
1	TRF0000002	0.0345	0.0449
2	TFM0000001	0.1933	0.2428
3	TIN0000001	0.1931	0.2219
4	TRV0000001	0.0549	0.0656
5	TSR0000001	0.0298	0.0383
6	TAO020136	0.0709	0.0837
7	TAO050136	0.1901	0.2232
8	TAO070136	0.2377	0.3007
9	TAO080136	0.1226	0.1459
10	TAO090136	0.1900	0.2238
11	TAO100136	0.1624	0.1915
12	TAO105136	0.2205	0.2525
13	EMPTY	0.0059	0.0147
14	TAO115136	0.1990	0.2355
15	EMPTY	0.0041	0.0117
16	TAO125136	0.1811	0.2095
17	TAO130136	0.1274	0.1505
18	EMPTY	12.7922	17.7886
19	TAO130048	0.1604	0.1870
20	TAO120224	0.2076	0.2517
21	EMPTY	0.3808	0.0644
22	TAO120312	0.1578	0.1860
23	TAO130312	0.1447	0.1698
24	EMPTY	0.0038	0.0101
25	TRT070000	0.1631	0.1914
26	TRT100000	0.0965	0.1124
27	TRT120000	0.1048	0.1229
28	TRT125000	0.2283	0.2592
29	EMPTY	0.0246	0.0648
30	EMPTY	0.0350	0.0876
31	TAF050136	0.1658	0.1923
32	TAF070136	0.1888	0.2213
33	TAF080136	0.1602	0.1890
34	TAF090136	0.1203	0.1420
35	TAF100136	0.1610	0.1891
36	TAF105136	0.1792	0.2086
37	TAF110136	0.1559	0.1863
38	TAF115136	0.1527	0.1760
39	TAF120136	0.1238	0.1437
40	TAF125136	0.1929	0.2262
41	TAF130136	0.1869	0.2199
42	TAF120048	0.1979	0.2333
43	TAF130048	0.1121	0.1312
44	TAF120224	0.1683	0.1975
45	TAF130224	0.1854	0.2180

#	Name	Abs Diff	%Diff
46	EMPTY	0.0177	0.0484
47	EMPTY	0.0161	0.0427
48	TAI130048	0.1230	0.1440
49	EMPTY	0.0221	0.0715
50	TAI130224	0.2706	0.3174
51	EMPTY	0.0690	0.1802
52	TRR130000	0.1081	0.1272
53	TSI000001	0.0095	0.0205
54	TSI000002	0.1337	0.2122
55	TSO000001	0.0222	0.0475
56	TSO000002	0.0600	0.0852
57	TAF020136	0.0486	0.0627
58	TAF120312	0.2165	0.2498
59	TAF130312	0.1933	0.2295
60	EMPTY	0.0046	1.2630
61	EMPTY	0.0034	0.8973
62	EMPTY	0.0044	1.1245
63	EMPTY	0.0047	1.1480
64	EMPTY	0.0010	0.3293
65	EMPTY	0.0038	1.1649
66	EMPTY	0.0009	0.2633
67	EMPTY	0.0035	0.9687
68	EMPTY	0.0024	0.6385
69	EMPTY	0.0041	1.0377
70	EMPTY	0.0022	0.5362
71	EMPTY	0.0035	0.8057
72	EMPTY	0.0040	0.8905
73	EMPTY	0.0027	0.5759
74	EMPTY	0.0003	0.0620
75	EMPTY	0.0012	0.2386
76	EMPTY	0.0007	0.1352
77	EMPTY	0.0005	0.0931
78	EMPTY	0.0028	0.4986
79	EMPTY	0.0046	0.7850
80	PAN020136	0.0311	0.7094
81	PAN050136	0.1190	1.2905
82	PAN070136	0.0977	2.1109
83	PAN080136	0.0435	1.2885
84	PAN090136	0.0290	1.0421
85	PAN100136	0.0470	1.5550
86	PAN105136	0.0493	3.5756
87	PAN110136	0.0106	0.7786
88	PAN115136	0.0168	6.3903
89	PAN120136	0.0494	2.7257
90	PAN125136	0.0116	0.9773
91	PAN130136	0.0327	2.1823
92	PAN120048	0.0374	1.2245
93	PAN130048	0.0517	1.8315
94	PAN120224	0.0343	1.6949
95	PAN130224	0.0240	0.8184
96	PAN120312	0.0122	0.5070
97	PAN130312	0.0121	0.4006
98	PAB000136	0.1577	0.3888
99	PAB100136	0.1574	0.3765
100	PAB125136	0.1651	0.3928

#	Name	Abs Diff	%Diff
101	PIN000001	0.1156	0.2853
102	PRV000001	0.0873	0.4459
103	PSR000001	0.1722	0.4134
104	PFM000001	0.0024	0.0166
105	PAN000136	0.3740	1.0643
106	PFM000002	0.0026	0.0179
107	EMPTY	0.0001	2.1277
108	EMPTY	0.1192	1.9135
109	EMPTY	0.0005	13.5135
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0189	10.7692
113	VPW000002	0.0161	19.3743
114	VPW000003	0.0219	12.6079
115	VPW000004	0.0295	36.0195
116	VPW000005	0.0264	17.1206
117	VPW000006	0.0043	2.5161
118	IPW000001	0.4526	41.0447
119	IPW000002	0.4612	37.8281
120	IPW000003	1.4040	54.9446
121	IPW000004	0.3220	50.9494
122	IPW000005	0.3037	207.8713
123	IPW000006	0.2762	82.0315
124	EMPTY	0.0006	3.1088
125	EMPTY	0.0001	0.7194
126	EMPTY	0.0017	9.8266
127	EMPTY	0.0004	2.8777
128	IHT000001	0.0186	38.4298
129	IHT000002	0.0173	12.6277
130	IHT000003	0.0099	8.2707
131	IHT000004	0.0278	18.3620
132	IHT000005	0.0017	1.0539
133	IHT000006	0.0003	0.1376
134	IHT000007	0.0179	12.9993
135	IHT000008	0.0219	15.9041
136	IHT000009	0.0365	76.0417
137	IHT000010	0.0073	5.8824
138	IHT000011	0.0104	14.0162
139	IHT000012	0.0265	30.2857
140	IHT000013	0.0008	2.6936
141	IHT000014	0.0160	13.4228
142	IHT000015	0.0231	29.5019
143	IHT000016	0.0334	81.2652
144	IHT000017	0.0059	0.9026
145	IHT000018	0.0300	42.7350
146	IHT000019	0.0051	7.2857
147	IHT000020	0.0178	22.7913
148	IHT000021	0.0982	9.1913
149	IHT000022	0.0158	202.5641
150	IHT000023	0.0047	3.8875
151	IHT000024	0.0252	2.4159
152	IHT000025	0.0087	2.1799
153	IHT000026	0.0114	11.0251
154	IHT000027	0.0045	3.2943
155	IHT000028	0.0133	21.5559

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0175	23.5849
157	IHT000030	0.0101	11.2472
158	IHT000031	0.0080	3.4572
159	IHT000032	0.0081	5.3219
160	IHT000033	0.0348	1.7143
161	IHT000034	0.0331	24.2136
162	IHT000035	0.0115	7.8391
163	IHT000036	0.0033	2.8646

Velocity 1 = 18.0055 (ft/sec) (+/- 3.5060 %)
 Velocity 2 = 13.3644 (ft/sec) (+/- 3.4861 %)
 Pressure drop = 7.2569 (psi)
 Tsat in = 267.9899 (deg F) Tsat out = 257.1754 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 1052.4254 %)
 Phi outer = 0.0003 (kBtu/hr-ft2) (+/- 652.8802 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.9100	78.5457	78.1982	1.6996e-01	1.9000e+00
1	TRF000002	76.6535	77.0756	76.9236	1.2090e-01	1.9000e+00
2	TFM000001	78.5599	79.4029	78.9856	1.9404e-01	1.9001e+00
3	TIN000001	85.9774	86.6075	86.3516	1.4101e-01	1.9002e+00
4	TRV000001	82.8331	83.6729	83.2785	2.1989e-01	1.9001e+00
5	TSR000001	77.5577	78.0861	77.8535	1.5218e-01	1.9000e+00
6	TAO020136	84.2532	85.0960	84.7967	1.9305e-01	1.9001e+00
7	TAO050136	84.2375	84.7629	84.4856	1.5232e-01	1.9001e+00
8	TAO070136	78.3969	79.1394	78.7663	2.0095e-01	1.9001e+00
9	TAO080136	83.1523	83.6777	83.4338	1.6609e-01	1.9001e+00
10	TAO090136	83.7360	84.5757	84.1816	1.8199e-01	1.9001e+00
11	TAO100136	83.9667	84.4930	84.1688	1.3241e-01	1.9001e+00
12	TAO105136	86.2619	86.8925	86.6274	1.7658e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.2344	1.2952e-01	1.9011e+00
14	TAO115136	83.2745	84.2248	83.8154	1.9518e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9850	6.3222e-02	1.9008e+00
16	TAO125136	85.4824	86.0080	85.7933	1.4377e-01	1.9002e+00
17	TAO130136	83.8414	84.3643	84.1918	1.2111e-01	1.9001e+00
18	EMPTY	40.9819	42.8139	42.3790	4.0400e-01	1.9012e+00
19	TAO130048	85.0713	85.5965	85.3485	1.4795e-01	1.9002e+00
20	TAO120224	81.2746	82.1177	81.7890	1.8513e-01	1.9001e+00
21	EMPTY	-594.5397	-594.1332	-594.3605	2.0383e-01	2.1247e+00
22	TAO120312	83.7301	84.4663	84.1549	1.5761e-01	1.9001e+00
23	TAO130312	84.3634	84.9935	84.7374	1.5028e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.6018	1.9185e-01	1.9010e+00
25	TRT070000	84.0993	84.8384	84.5679	1.7079e-01	1.9001e+00
26	TRT100000	84.7501	85.6943	85.2581	2.0033e-01	1.9002e+00
27	TRT120000	84.2941	84.8198	84.5718	1.5423e-01	1.9001e+00
28	TRT125000	86.9820	87.9219	87.4210	1.8394e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9376	1.1199e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9866	2.2526e-01	1.9011e+00
31	TAF050136	85.2477	86.0859	85.5916	1.7593e-01	1.9002e+00
32	TAF070136	84.1449	85.0874	84.6684	2.5183e-01	1.9001e+00
33	TAF080136	83.8597	84.3846	84.1702	1.5840e-01	1.9001e+00
34	TAF090136	83.5603	84.6109	84.1235	2.6662e-01	1.9001e+00
35	TAF100136	84.1820	84.8131	84.5063	1.5886e-01	1.9001e+00
36	TAF105136	84.8883	85.6210	85.2068	2.0003e-01	1.9002e+00
37	TAF110136	82.7412	83.3707	83.0315	1.6784e-01	1.9001e+00
38	TAF115136	85.6405	86.5844	86.1357	1.9188e-01	1.9002e+00
39	TAF120136	85.3351	85.7548	85.5161	1.2196e-01	1.9002e+00
40	TAF125136	84.3006	85.2429	84.5862	1.6120e-01	1.9001e+00
41	TAF130136	84.0649	84.5913	84.3973	1.4927e-01	1.9001e+00
42	TAF120048	83.7250	84.5718	84.1692	1.9820e-01	1.9001e+00
43	TAF130048	84.6578	84.9739	84.8305	1.0787e-01	1.9001e+00
44	TAF120224	84.2336	85.1800	84.6419	1.5984e-01	1.9001e+00
45	TAF130224	84.1873	84.5036	84.3601	1.0791e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5569	2.0708e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6847	1.1153e-01	1.9010e+00
48	TAI130048	84.2142	85.3704	84.7863	2.7873e-01	1.9001e+00
49	EMPTY	30.8003	31.7493	31.1894	2.5256e-01	1.9007e+00
50	TAI130224	83.9812	85.2458	84.5505	2.7768e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2779	1.7556e-01	1.9010e+00
52	TRR130000	83.8183	84.9726	84.4230	2.3563e-01	1.9001e+00
53	TSI000001	46.1549	46.9135	46.5230	1.9336e-01	1.9004e+00
54	TSI000002	63.1555	64.2232	63.7069	2.8243e-01	1.9000e+00
55	TSO000001	46.2650	47.2447	46.7267	2.0816e-01	1.9004e+00
56	TSO000002	70.2415	71.0921	70.7012	1.9977e-01	1.9000e+00
57	TAF020136	77.3060	77.9435	77.6882	1.5898e-01	1.9000e+00
58	TAF120312	85.6598	86.4989	86.0039	2.4040e-01	1.9002e+00
59	TAF130312	83.2381	83.9729	83.5785	1.5385e-01	1.9001e+00
60	EMPTY	0.3467	0.3516	0.3469	9.6655e-04	0.0000e+00
61	EMPTY	0.3613	0.3711	0.3617	1.6624e-03	0.0000e+00
62	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
63	EMPTY	0.3906	0.3955	0.3916	1.9730e-03	0.0000e+00
64	EMPTY	0.2979	0.3027	0.3026	6.9053e-04	0.0000e+00
65	EMPTY	0.3223	0.3271	0.3225	9.6655e-04	0.0000e+00
66	EMPTY	0.3369	0.3418	0.3401	2.3365e-03	0.0000e+00
67	EMPTY	0.3564	0.3613	0.3571	1.7115e-03	0.0000e+00
68	EMPTY	0.3711	0.3760	0.3730	2.4164e-03	0.0000e+00
69	EMPTY	0.3906	0.3955	0.3908	9.6655e-04	0.0000e+00
70	EMPTY	0.4053	0.4102	0.4076	2.4642e-03	0.0000e+00
71	EMPTY	0.4297	0.4346	0.4310	2.1635e-03	0.0000e+00
72	EMPTY	0.4443	0.4492	0.4455	2.1065e-03	0.0000e+00
73	EMPTY	0.4639	0.4688	0.4669	2.3941e-03	0.0000e+00
74	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
75	EMPTY	0.4980	0.5029	0.5019	2.0432e-03	0.0000e+00
76	EMPTY	0.5127	0.5176	0.5175	6.9053e-04	0.0000e+00
77	EMPTY	0.5322	0.5371	0.5369	9.6655e-04	0.0000e+00
78	EMPTY	0.5566	0.5615	0.5605	1.9730e-03	0.0000e+00
79	EMPTY	0.5762	0.5859	0.5813	1.6972e-03	0.0000e+00
80	PAN020136	23.0831	26.5927	24.5327	7.1087e-01	8.7216e-01
81	PAN050136	45.5210	46.7417	46.1771	2.4902e-01	1.6840e+00
82	PAN070136	34.6050	35.6731	35.1543	2.5468e-01	8.7443e-01
83	PAN080136	14.2509	15.0901	14.6277	2.1711e-01	8.7077e-01
84	PAN090136	15.6361	16.2465	15.9764	1.2915e-01	8.7092e-01
85	PAN100136	14.4365	15.0469	14.6974	1.7377e-01	8.7078e-01
86	PAN105136	7.1936	7.8802	7.4911	1.5278e-01	8.7020e-01
87	PAN110136	7.8838	8.3416	8.0577	9.5066e-02	8.7023e-01
88	PAN115136	11.7748	12.6903	12.2173	2.5884e-01	8.7054e-01
89	PAN120136	5.3790	6.2183	5.7773	2.2981e-01	8.7012e-01
90	PAN125136	8.6992	9.3096	9.0074	1.6598e-01	8.7029e-01
91	PAN130136	6.3645	7.2037	6.7780	2.1912e-01	8.7016e-01
92	PAN120048	15.2563	16.1719	15.7355	1.9802e-01	8.7089e-01
93	PAN130048	14.5569	15.4724	14.9551	2.1760e-01	8.7080e-01
94	PAN120224	18.2659	18.7999	18.4917	1.4039e-01	8.7123e-01
95	PAN130224	15.7289	16.3392	15.9471	1.3350e-01	8.7091e-01
96	PAN120312	16.6812	17.2152	17.0245	1.3371e-01	8.7104e-01
97	PAN130312	15.0046	15.6150	15.2793	1.4127e-01	8.7084e-01
98	PAB000136	40.1790	40.6367	40.4188	9.2279e-02	5.8874e-01
99	PAB100136	35.0575	35.3779	35.2141	7.1690e-02	5.8664e-01
100	PAB125136	33.5557	33.8303	33.6646	6.9139e-02	5.8607e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0727	40.8051	40.3339	1.5600e-01	7.5675e-01
102	PRV000001	18.7207	18.9649	18.8428	2.4662e-02	7.5148e-01
103	PSR000001	31.7793	31.9014	31.8184	5.7521e-02	7.5421e-01
104	PFM000001	49.9516	51.1418	50.5834	3.1943e-01	5.1574e-01
105	PAN000136	198.3022	206.0842	200.9115	1.7843e+00	4.9456e+00
106	PFM000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0146	0.0085	2.3778e-03	0.0000e+00
108	EMPTY	-6.6064	-4.8145	-5.9272	2.9065e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0021	2.4344e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1559	9.1354e-02	8.1000e-01
113	VPW000002	0.0753	0.2706	0.1222	8.4262e-02	8.1000e-01
114	VPW000003	0.0800	0.4706	0.1855	1.0595e-01	8.1000e-01
115	VPW000004	-0.0353	0.5506	0.0819	1.2478e-01	8.1000e-01
116	VPW000005	0.0800	0.4706	0.1933	1.0507e-01	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.2217	1.0885e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	2.9379	1.2628e+00	8.1000e+00
119	IPW000002	0.3996	4.3022	1.2972	1.0585e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.0343	1.1425e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.4270	2.3778e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.8198	3.1208e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.0633	2.6174e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0187	3.6500e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.5362e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0149	3.3322e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0134	3.0897e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0211	8.5454e-02	4.1000e+00
129	IHT000002	0.0706	0.2659	0.1605	9.8332e-02	4.1000e+00
130	IHT000003	0.0259	0.2212	0.1392	9.7377e-02	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1748	8.1347e-02	4.1000e+00
132	IHT000005	0.0753	0.2706	0.1613	9.7935e-02	4.1000e+00
133	IHT000006	0.0072	0.5931	0.2298	1.1168e-01	4.1000e+00
134	IHT000007	0.0400	0.4306	0.1416	1.0617e-01	4.1000e+00
135	IHT000008	0.0400	0.4306	0.1455	1.0595e-01	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0519	8.4997e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1358	9.8648e-02	4.1000e+00
138	IHT000011	0.0000	0.3906	0.0781	1.0440e-01	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.0875	1.0259e-01	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0492	9.8648e-02	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1466	9.9512e-02	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0861	9.5112e-02	4.1000e+00
143	IHT000016	-0.0800	0.3106	0.0177	1.0625e-01	4.1000e+00
144	IHT000017	0.3647	0.9506	0.6537	1.5404e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.1053	9.6976e-02	4.1000e+00
146	IHT000019	-0.1247	0.2659	-0.0309	1.0617e-01	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0625	9.7935e-02	4.1000e+00
148	IHT000021	-1.1934	-0.6075	-0.9825	1.1732e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0039	6.2265e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1287	7.2330e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0705	9.8332e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3991	8.8233e-02	4.1000e+00
153	IHT000026	0.0800	0.2753	0.0917	4.6855e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1405	7.1136e-02	4.1000e+00
155	IHT000028	-0.0047	0.3859	0.0695	1.0358e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.1133	1.0507e-01	4.1000e+00
157	IHT000030	0.0000	0.3906	0.0898	1.0595e-01	4.1000e+00
158	IHT000031	0.0400	0.8213	0.2431	1.2453e-01	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1405	7.1136e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9675	9.6332e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1406	9.6976e-02	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1545	8.8321e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.1034	7.5283e-02	4.1000e+00

Velocity 1 = 18.0279 (ft/sec) (+/- 3.5059 %)
Velocity 2 = 13.3646 (ft/sec) (+/- 3.4861 %)
Pressure drop = 7.2808 (psi)
Tsats in = 268.2051 (deg F) Tsats out = 257.4231 (deg F)
Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 754.1273 %)
Phi outer = 0.0002 (kBtu/hr-ft2) (+/- 744.8418 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.9100	78.5457	78.2084	1.7257e-01	1.9000e+00
1	TRF000002	76.6535	77.2866	76.9636	1.4354e-01	1.9000e+00
2	TFM000001	78.6652	79.6140	79.1662	2.3124e-01	1.9001e+00
3	TIN000001	86.0827	86.8180	86.5349	1.8587e-01	1.9002e+00
4	TRV000001	82.9387	83.8833	83.3946	2.0609e-01	1.9001e+00
5	TSR000001	77.5577	78.1915	77.8810	1.7678e-01	1.9000e+00
6	TAO020136	84.2532	85.0960	84.7238	1.9238e-01	1.9001e+00
7	TAO050136	84.1339	85.0767	84.6059	1.9746e-01	1.9001e+00
8	TAO070136	78.3975	79.1389	78.7477	2.0865e-01	1.9001e+00
9	TAO080136	83.2578	83.9915	83.5847	1.5834e-01	1.9001e+00
10	TAO090136	83.9464	85.1005	84.3619	1.8048e-01	1.9001e+00
11	TAO100136	83.9667	84.7023	84.3058	1.6658e-01	1.9001e+00
12	TAO105136	86.3668	87.2072	86.7527	2.0825e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.2332	1.3057e-01	1.9011e+00
14	TAO115136	83.4860	84.3313	83.9557	2.3212e-01	1.9001e+00
15	EMPTY	35.0035	35.2341	35.0129	4.6108e-02	1.9008e+00
16	TAO125136	85.6921	86.3217	85.9537	1.6468e-01	1.9002e+00
17	TAO130136	84.0480	84.6763	84.3091	1.6415e-01	1.9001e+00
18	EMPTY	40.7527	41.4403	40.9679	2.0611e-01	1.9011e+00
19	TAO130048	85.2805	85.9104	85.4908	1.4378e-01	1.9002e+00
20	TAO120224	81.5904	82.3284	81.9155	1.9567e-01	1.9001e+00
21	EMPTY	-594.9463	-594.5397	-594.9210	9.8479e-02	2.1251e+00
22	TAO120312	83.9401	84.7815	84.3182	1.8334e-01	1.9001e+00
23	TAO130312	84.5736	85.4132	84.9332	2.0212e-01	1.9002e+00
24	EMPTY	37.3074	37.9974	37.5844	1.9349e-01	1.9010e+00
25	TRT070000	84.2042	85.0495	84.6724	1.7623e-01	1.9001e+00
26	TRT100000	85.0651	85.7996	85.4182	1.9111e-01	1.9002e+00
27	TRT120000	84.5042	85.1351	84.7447	1.5909e-01	1.9001e+00
28	TRT125000	87.1904	88.0270	87.5109	1.9018e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9270	1.1692e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9476	2.2031e-01	1.9011e+00
31	TAF050136	85.3521	86.1911	85.6948	1.9591e-01	1.9002e+00
32	TAF070136	84.1454	85.1922	84.8155	1.9210e-01	1.9001e+00
33	TAF080136	83.8602	84.6980	84.2873	1.6134e-01	1.9001e+00
34	TAF090136	83.8751	84.7163	84.2529	2.1752e-01	1.9001e+00
35	TAF100136	84.2874	85.0239	84.6502	2.0376e-01	1.9001e+00
36	TAF105136	84.8883	85.9335	85.3750	2.5106e-01	1.9002e+00
37	TAF110136	82.7417	83.5817	83.1956	1.8232e-01	1.9001e+00
38	TAF115136	85.8506	86.6896	86.2656	2.1076e-01	1.9002e+00
39	TAF120136	85.3351	85.9649	85.6862	1.6656e-01	1.9002e+00
40	TAF125136	84.3011	85.0341	84.6773	1.5275e-01	1.9001e+00
41	TAF130136	84.1703	84.6961	84.4984	1.4652e-01	1.9001e+00
42	TAF120048	83.9354	84.6767	84.3078	1.9199e-01	1.9001e+00
43	TAF130048	84.6583	85.2889	85.0313	1.5481e-01	1.9002e+00
44	TAF120224	84.2336	85.1800	84.6931	1.8175e-01	1.9001e+00
45	TAF130224	84.1873	84.8201	84.5275	1.4948e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5463	1.8923e-01	1.9009e+00
47	EMPTY	37.5374	37.9974	37.7111	1.1042e-01	1.9010e+00
48	TAI130048	84.2136	85.5811	84.9802	3.3594e-01	1.9002e+00
49	EMPTY	30.5629	31.5121	30.9601	1.7724e-01	1.9006e+00
50	TAI130224	84.0867	85.3517	84.6954	3.0590e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2789	1.7090e-01	1.9010e+00
52	TRR130000	84.0280	84.9726	84.5253	2.4581e-01	1.9001e+00
53	TSI000001	46.1543	47.0217	46.5571	1.9414e-01	1.9004e+00
54	TSI000002	63.1560	64.2242	63.7835	2.7632e-01	1.9000e+00
55	TSO000001	46.2650	47.3534	46.8294	2.0194e-01	1.9004e+00
56	TSO000002	70.2421	71.3046	70.7105	2.6478e-01	1.9000e+00
57	TAF020136	77.3060	78.1544	77.6958	1.8676e-01	1.9000e+00
58	TAF120312	85.5550	86.6036	86.1541	2.4098e-01	1.9002e+00
59	TAF130312	83.4476	84.0783	83.7308	1.6767e-01	1.9001e+00
60	EMPTY	0.3467	0.3516	0.3497	2.4037e-03	0.0000e+00
61	EMPTY	0.3613	0.3662	0.3651	2.0584e-03	0.0000e+00
62	EMPTY	0.3760	0.3809	0.3777	2.3483e-03	0.0000e+00
63	EMPTY	0.3906	0.3955	0.3951	1.3508e-03	0.0000e+00
64	EMPTY	0.2979	0.3027	0.3023	1.3508e-03	0.0000e+00
65	EMPTY	0.3174	0.3271	0.3223	9.9670e-04	0.0000e+00
66	EMPTY	0.3369	0.3418	0.3402	2.3135e-03	0.0000e+00
67	EMPTY	0.3564	0.3613	0.3578	2.2287e-03	0.0000e+00
68	EMPTY	0.3711	0.3760	0.3724	2.1781e-03	0.0000e+00
69	EMPTY	0.3906	0.3906	0.3906	0.0000e+00	0.0000e+00
70	EMPTY	0.4053	0.4102	0.4070	2.3483e-03	0.0000e+00
71	EMPTY	0.4297	0.4346	0.4307	1.9883e-03	0.0000e+00
72	EMPTY	0.4443	0.4492	0.4455	2.1215e-03	0.0000e+00
73	EMPTY	0.4639	0.4688	0.4666	2.4538e-03	0.0000e+00
74	EMPTY	0.4785	0.4834	0.4833	6.9754e-04	0.0000e+00
75	EMPTY	0.4980	0.5029	0.5023	1.6172e-03	0.0000e+00
76	EMPTY	0.5127	0.5176	0.5173	1.1827e-03	0.0000e+00
77	EMPTY	0.5371	0.5469	0.5373	1.3951e-03	0.0000e+00
78	EMPTY	0.5566	0.5615	0.5598	2.3483e-03	0.0000e+00
79	EMPTY	0.5811	0.5859	0.5813	9.7615e-04	0.0000e+00
80	PAN020136	23.1594	25.6008	24.1762	4.8986e-01	8.7210e-01
81	PAN050136	45.9788	47.3521	46.7199	3.1916e-01	1.6841e+00
82	PAN070136	34.7576	35.8257	35.2278	2.2800e-01	8.7445e-01
83	PAN080136	14.5560	15.2427	14.8955	1.3935e-01	8.7080e-01
84	PAN090136	15.3309	16.0176	15.7295	1.3777e-01	8.7089e-01
85	PAN100136	14.4365	14.9706	14.6856	1.2915e-01	8.7077e-01
86	PAN105136	7.1173	7.6514	7.4054	1.3239e-01	8.7020e-01
87	PAN110136	7.8838	8.3416	8.1360	9.3705e-02	8.7024e-01
88	PAN115136	12.3088	12.8429	12.5704	1.1230e-01	8.7057e-01
89	PAN120136	5.3790	5.7605	5.5830	8.8629e-02	8.7011e-01
90	PAN125136	9.0044	9.4622	9.2224	1.2063e-01	8.7031e-01
91	PAN130136	6.5171	6.8986	6.6961	9.0206e-02	8.7016e-01
92	PAN120048	15.1801	16.1719	15.8184	2.1730e-01	8.7090e-01
93	PAN130048	14.6332	15.1672	14.8621	1.2361e-01	8.7079e-01
94	PAN120224	18.4185	18.9525	18.7112	1.2875e-01	8.7126e-01
95	PAN130224	15.8815	16.4155	16.1415	1.3569e-01	8.7094e-01
96	PAN120312	16.9100	17.3678	17.2183	1.1333e-01	8.7106e-01
97	PAN130312	15.1572	15.7676	15.4624	1.2652e-01	8.7086e-01
98	PAB000136	40.4078	40.7741	40.5648	9.8001e-02	5.8880e-01
99	PAB100136	35.2864	35.4695	35.3611	4.6433e-02	5.8670e-01
100	PAB125136	33.7388	33.8761	33.8070	4.4932e-02	5.8613e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.1948	40.8051	40.4538	1.6270e-01	7.5679e-01
102	PRV0000001	19.0869	19.2090	19.1716	5.6843e-02	7.5153e-01
103	PSR0000001	31.9014	32.0235	31.9338	5.4452e-02	7.5424e-01
104	PFM0000001	50.1347	51.3249	50.7083	2.7893e-01	5.1582e-01
105	PAN000136	196.9290	205.6265	201.5720	1.8287e+00	4.9457e+00
106	PFM0000002	27.7669	27.7669	27.7669	1.1563e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0091	1.7263e-03	0.0000e+00
108	EMPTY	-6.5967	-5.3516	-6.0798	2.6336e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0049	9.9670e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0098	0.0015	2.4826e-03	0.0000e+00
112	VPW0000001	0.1247	0.3200	0.1725	8.4860e-02	8.1000e-01
113	VPW0000002	0.0753	0.2706	0.1152	7.9532e-02	8.1000e-01
114	VPW0000003	0.0800	0.4706	0.2036	1.0315e-01	8.1000e-01
115	VPW0000004	-0.0353	0.3553	0.0444	1.0486e-01	8.1000e-01
116	VPW0000005	0.0800	0.4706	0.2195	9.7656e-02	8.1000e-01
117	VPW0000006	-0.0400	0.3506	0.1713	9.6318e-02	8.1000e-01
118	IPW0000001	0.3998	4.3045	2.3522	1.1956e+00	8.1000e+00
119	IPW0000002	-1.5516	2.3509	0.4793	1.1237e+00	8.1000e+00
120	IPW0000003	-0.7987	3.1013	1.4696	1.1500e+00	8.1000e+00
121	IPW0000004	-0.1883	0.7883	0.6587	2.3953e-01	2.0000e+00
122	IPW0000005	-0.0883	0.8882	0.5395	2.8188e-01	2.0000e+00
123	IPW0000006	-0.2883	0.6883	0.1004	2.8155e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0175	3.5824e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.7536e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0142	3.1902e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0148	2.9833e-03	0.0000e+00
128	IHT0000001	-0.2094	0.3766	0.0298	9.9792e-02	4.1000e+00
129	IHT0000002	-0.1247	0.2659	0.1344	1.0076e-01	4.1000e+00
130	IHT0000003	0.0259	0.4166	0.1096	1.1960e-01	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1553	8.9148e-02	4.1000e+00
132	IHT0000005	-0.1200	0.2706	0.1471	1.0315e-01	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.2145	1.2229e-01	4.1000e+00
134	IHT0000007	0.0400	0.2353	0.1157	9.6150e-02	4.1000e+00
135	IHT0000008	0.0400	0.2353	0.1038	9.2540e-02	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0076	1.0955e-01	4.1000e+00
137	IHT0000010	-0.0400	0.3506	0.1234	1.0044e-01	4.1000e+00
138	IHT0000011	0.0000	0.1953	0.1076	9.8153e-02	4.1000e+00
139	IHT0000012	-0.0375	0.1578	0.0980	9.0949e-02	4.1000e+00
140	IHT0000013	-0.2047	0.1859	0.0624	1.0315e-01	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1313	1.0424e-01	4.1000e+00
142	IHT0000015	-0.1600	0.2306	0.0951	9.9303e-02	4.1000e+00
143	IHT0000016	-0.0800	0.3106	0.0276	1.0594e-01	4.1000e+00
144	IHT0000017	0.1694	1.1459	0.6636	2.4930e-01	4.1000e+00
145	IHT0000018	-0.0353	0.3553	0.0922	1.0204e-01	4.1000e+00
146	IHT0000019	-0.1247	0.0706	-0.0569	9.3931e-02	4.1000e+00
147	IHT0000020	-0.0234	0.3672	0.0603	1.1276e-01	4.1000e+00
148	IHT0000021	-1.3888	-0.8028	-1.0460	1.8064e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	-0.0080	6.8582e-02	4.1000e+00
150	IHT0000023	-0.0353	0.1600	0.1241	7.6412e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	1.0324	9.5812e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.4118	9.5812e-02	4.1000e+00
153	IHT0000026	0.0800	0.4706	0.1119	9.2189e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1441	6.7148e-02	4.1000e+00
155	IHT0000028	-0.0047	0.3859	0.0870	1.0625e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.0877	1.0594e-01	4.1000e+00
157	IHT000030	0.0000	0.3906	0.0877	1.0594e-01	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2393	9.3412e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1640	9.3412e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-2.0271	9.5812e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1435	1.1810e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1511	8.5810e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.1079	7.9736e-02	4.1000e+00

Velocity 1 = 0.022400 (ft/sec)
 Velocity 2 = 0.000200 (ft/sec)
 Pressure Drop = 0.023900 (psi)
 Tsat in = 0.215210 (deg F) Tsat out = 0.247681 (deg F)
 Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0102	0.0130
1	TRF000002	0.0400	0.0520
2	TFM000001	0.1806	0.2286
3	TIN000001	0.1833	0.2123
4	TRV000001	0.1161	0.1394
5	TSR000001	0.0275	0.0353
6	TAO020136	0.0729	0.0860
7	TAO050136	0.1203	0.1424
8	TAO070136	0.0186	0.0236
9	TAO080136	0.1509	0.1809
10	TAO090136	0.1803	0.2142
11	TAO100136	0.1370	0.1628
12	TAO105136	0.1253	0.1446
13	EMPTY	0.0012	0.0030
14	TAO115136	0.1403	0.1674
15	EMPTY	0.0279	0.0798
16	TAO125136	0.1604	0.1870
17	TAO130136	0.1173	0.1393
18	EMPTY	1.4111	3.3297
19	TAO130048	0.1423	0.1667
20	TAO120224	0.1265	0.1547
21	EMPTY	0.5605	0.0943
22	TAO120312	0.1633	0.1940
23	TAO130312	0.1958	0.2311
24	EMPTY	0.0174	0.0463
25	TRT070000	0.1045	0.1236
26	TRT100000	0.1601	0.1878
27	TRT120000	0.1729	0.2044
28	TRT125000	0.0899	0.1028
29	EMPTY	0.0106	0.0279
30	EMPTY	0.0390	0.0975
31	TAF050136	0.1032	0.1206
32	TAF070136	0.1471	0.1737
33	TAF080136	0.1171	0.1391
34	TAF090136	0.1294	0.1538
35	TAF100136	0.1439	0.1703
36	TAF105136	0.1682	0.1974
37	TAF110136	0.1641	0.1976
38	TAF115136	0.1299	0.1508
39	TAF120136	0.1701	0.1989
40	TAF125136	0.0911	0.1077
41	TAF130136	0.1011	0.1198
42	TAF120048	0.1386	0.1647
43	TAF130048	0.2008	0.2367
44	TAF120224	0.0512	0.0605
45	TAF130224	0.1674	0.1984

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
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#	Name	Abs Diff	%Diff
46	EMPTY	0.0106	0.0290
47	EMPTY	0.0264	0.0701
48	TAI130048	0.1939	0.2287
49	EMPTY	0.2293	0.7352
50	TAI130224	0.1449	0.1714
51	EMPTY	0.0010	0.0026
52	TRR130000	0.1023	0.1212
53	TSI000001	0.0341	0.0733
54	TSI000002	0.0766	0.1202
55	TSO000001	0.1027	0.2198
56	TSO000002	0.0093	0.0132
57	TAF020136	0.0076	0.0098
58	TAF120312	0.1502	0.1746
59	TAF130312	0.1523	0.1822
60	EMPTY	0.0028	0.8072
61	EMPTY	0.0034	0.9400
62	EMPTY	0.0017	0.4521
63	EMPTY	0.0035	0.8938
64	EMPTY	0.0003	0.0991
65	EMPTY	0.0002	0.0620
66	EMPTY	0.0001	0.0294
67	EMPTY	0.0007	0.1960
68	EMPTY	0.0006	0.1609
69	EMPTY	0.0002	0.0512
70	EMPTY	0.0006	0.1472
71	EMPTY	0.0003	0.0696
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0003	0.0643
74	EMPTY	0.0000	0.0000
75	EMPTY	0.0004	0.0797
76	EMPTY	0.0002	0.0386
77	EMPTY	0.0004	0.0745
78	EMPTY	0.0007	0.1249
79	EMPTY	0.0000	0.0000
80	PAN020136	0.3565	1.4532
81	PAN050136	0.5428	1.1755
82	PAN070136	0.0735	0.2091
83	PAN080136	0.2678	1.8308
84	PAN090136	0.2469	1.5454
85	PAN100136	0.0118	0.0803
86	PAN105136	0.0857	1.1440
87	PAN110136	0.0783	0.9717
88	PAN115136	0.3531	2.8902
89	PAN120136	0.1943	3.3632
90	PAN125136	0.2150	2.3869
91	PAN130136	0.0819	1.2083
92	PAN120048	0.0829	0.5268
93	PAN130048	0.0930	0.6219
94	PAN120224	0.2195	1.1870
95	PAN130224	0.1944	1.2190
96	PAN120312	0.1938	1.1384
97	PAN130312	0.1831	1.1984
98	PAB000136	0.1460	0.3612
99	PAB100136	0.1470	0.4174
100	PAB125136	0.1424	0.4230

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1199	0.2973
102	PRV000001	0.3288	1.7450
103	PSR000001	0.1154	0.3627
104	PFM000001	0.1249	0.2469
105	PAN000136	0.6605	0.3288
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0006	7.0588
108	EMPTY	0.1526	2.5746
109	EMPTY	0.0001	2.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0006	28.5714
112	VPW000001	0.0166	10.6479
113	VPW000002	0.0070	5.7283
114	VPW000003	0.0181	9.7574
115	VPW000004	0.0375	45.7875
116	VPW000005	0.0262	13.5541
117	VPW000006	0.0504	22.7334
118	IPW000001	0.5857	19.9360
119	IPW000002	0.8179	63.0512
120	IPW000003	0.4353	42.0864
121	IPW000004	0.2317	54.2623
122	IPW000005	0.2803	34.1913
123	IPW000006	0.0371	58.6098
124	EMPTY	0.0012	6.4171
125	EMPTY	0.0011	8.4615
126	EMPTY	0.0007	4.6980
127	EMPTY	0.0014	10.4478
128	IHT000001	0.0087	41.2322
129	IHT000002	0.0261	16.2617
130	IHT000003	0.0296	21.2644
131	IHT000004	0.0195	11.1556
132	IHT000005	0.0142	8.8035
133	IHT000006	0.0153	6.6580
134	IHT000007	0.0259	18.2910
135	IHT000008	0.0417	28.6598
136	IHT000009	0.0443	85.3565
137	IHT000010	0.0124	9.1311
138	IHT000011	0.0295	37.7721
139	IHT000012	0.0105	12.0000
140	IHT000013	0.0132	26.8293
141	IHT000014	0.0153	10.4366
142	IHT000015	0.0090	10.4530
143	IHT000016	0.0099	55.9322
144	IHT000017	0.0099	1.5145
145	IHT000018	0.0131	12.4406
146	IHT000019	0.0260	84.1424
147	IHT000020	0.0022	3.5200
148	IHT000021	0.0635	6.4631
149	IHT000022	0.0119	305.1282
150	IHT000023	0.0046	3.5742
151	IHT000024	0.0381	3.5591
152	IHT000025	0.0127	3.1822
153	IHT000026	0.0202	22.0284
154	IHT000027	0.0036	2.5623
155	IHT000028	0.0175	25.1799

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dif

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0256	22.5949
157	IHT000030	0.0021	2.3385
158	IHT000031	0.0038	1.5631
159	IHT000032	0.0235	16.7260
160	IHT000033	0.0596	3.0292
161	IHT000034	0.0029	2.0626
162	IHT000035	0.0034	2.2006
163	IHT000036	0.0045	4.3520

Velocity 1 = 23.5403 (ft/sec) (+/- 3.4830 %)
 Velocity 2 = 13.3639 (ft/sec) (+/- 3.4861 %)
 Pressure drop = 15.3145 (psi)
 Tsat in = 268.3243 (deg F) Tsat out = 242.5396 (deg F)
 Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 604.2637 %)
 Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 940.6636 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.9100	78.5457	78.3126	1.8288e-01	1.9000e+00
1	TRF000002	76.8646	77.2866	76.9827	1.1408e-01	1.9000e+00
2	TFM000001	78.1391	78.9824	78.5288	2.2163e-01	1.9000e+00
3	TIN000001	85.4522	86.1878	85.8956	1.7674e-01	1.9002e+00
4	TRV000001	82.4147	83.1492	82.8241	1.9692e-01	1.9001e+00
5	TSR000001	77.6632	78.1915	77.9318	1.5255e-01	1.9000e+00
6	TAO020136	84.0425	85.0955	84.6259	2.5280e-01	1.9001e+00
7	TAO050136	83.7155	84.4496	84.0491	1.8436e-01	1.9001e+00
8	TAO070136	78.2910	79.0336	78.7300	2.1618e-01	1.9001e+00
9	TAO080136	82.8392	83.3648	83.0980	1.6038e-01	1.9001e+00
10	TAO090136	83.4211	84.1573	83.8314	1.9718e-01	1.9001e+00
11	TAO100136	83.4414	84.1779	83.7637	1.6791e-01	1.9001e+00
12	TAO105136	85.8416	86.5773	86.2135	1.9129e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.2023	1.3903e-01	1.9011e+00
14	TAO115136	82.9568	83.9074	83.4322	1.9810e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9712	8.0862e-02	1.9008e+00
16	TAO125136	85.1684	85.6935	85.3764	1.6228e-01	1.9002e+00
17	TAO130136	83.5319	84.0550	83.8555	1.2755e-01	1.9001e+00
18	EMPTY	40.0646	40.2940	40.1656	1.1503e-01	1.9011e+00
19	TAO130048	84.7575	85.2829	85.0204	1.5619e-01	1.9002e+00
20	TAO120224	80.9590	81.6968	81.4079	1.5476e-01	1.9001e+00
21	EMPTY	-597.7957	-597.7957	-597.7954	3.0827e-04	2.1272e+00
22	TAO120312	83.4141	84.0455	83.7446	1.5038e-01	1.9001e+00
23	TAO130312	83.9450	84.7845	84.3708	1.8788e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.6018	1.8614e-01	1.9010e+00
25	TRT070000	83.7801	84.3096	84.1122	1.5378e-01	1.9001e+00
26	TRT100000	84.4362	85.1711	84.8497	1.6209e-01	1.9001e+00
27	TRT120000	83.9788	84.5052	84.1792	1.3484e-01	1.9001e+00
28	TRT125000	86.4613	87.4022	86.9820	1.8710e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9376	1.1199e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9683	1.8008e-01	1.9011e+00
31	TAF050136	84.8291	85.4589	85.1129	1.7508e-01	1.9002e+00
32	TAF070136	83.8326	84.7748	84.2411	1.8712e-01	1.9001e+00
33	TAF080136	83.3392	84.0724	83.7099	1.5750e-01	1.9001e+00
34	TAF090136	83.1400	84.0863	83.6342	2.1683e-01	1.9001e+00
35	TAF100136	83.6554	84.3927	84.0622	1.7477e-01	1.9001e+00
36	TAF105136	84.3683	85.3092	84.8137	2.3182e-01	1.9001e+00
37	TAF110136	82.3237	82.9534	82.6444	1.6775e-01	1.9001e+00
38	TAF115136	85.3266	86.0611	85.7106	2.0503e-01	1.9002e+00
39	TAF120136	84.8132	85.3378	85.1257	1.5653e-01	1.9002e+00
40	TAF125136	83.8845	84.5128	84.1668	1.6167e-01	1.9001e+00
41	TAF130136	83.5398	84.2760	83.9836	1.6910e-01	1.9001e+00
42	TAF120048	83.1942	84.1479	83.7763	2.1410e-01	1.9001e+00
43	TAF130048	84.1323	84.6583	84.4752	1.3581e-01	1.9001e+00
44	TAF120224	83.8135	84.4445	84.1646	1.8719e-01	1.9001e+00
45	TAF130224	83.6574	84.1850	84.0144	1.3614e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5937	1.8754e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6663	1.1534e-01	1.9010e+00
48	TAI130048	83.8983	85.1607	84.4309	3.0976e-01	1.9001e+00
49	EMPTY	30.8003	31.7493	31.1278	2.2934e-01	1.9007e+00
50	TAI130224	83.4536	84.8242	84.1348	3.1686e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2595	1.5410e-01	1.9010e+00
52	TRR130000	83.5042	84.4492	84.0103	2.4704e-01	1.9001e+00
53	TSI000001	46.1553	47.0217	46.6077	1.9054e-01	1.9004e+00
54	TSI000002	63.6897	64.6509	64.2599	2.8902e-01	1.9000e+00
55	TSO000001	46.3738	47.1366	46.8593	1.6921e-01	1.9004e+00
56	TSO000002	70.0294	71.0927	70.4865	2.2152e-01	1.9000e+00
57	TAF020136	77.4120	78.1549	77.7622	1.9203e-01	1.9000e+00
58	TAF120312	85.0320	86.0798	85.6002	2.6950e-01	1.9002e+00
59	TAF130312	82.9240	83.4501	83.1621	1.7353e-01	1.9001e+00
60	EMPTY	0.3320	0.3369	0.3362	1.7115e-03	0.0000e+00
61	EMPTY	0.3467	0.3516	0.3509	1.7115e-03	0.0000e+00
62	EMPTY	0.3613	0.3662	0.3647	2.2603e-03	0.0000e+00
63	EMPTY	0.3760	0.3809	0.3808	6.9053e-04	0.0000e+00
64	EMPTY	0.2979	0.3027	0.2987	1.8950e-03	0.0000e+00
65	EMPTY	0.3174	0.3223	0.3214	1.8950e-03	0.0000e+00
66	EMPTY	0.3369	0.3369	0.3369	0.0000e+00	0.0000e+00
67	EMPTY	0.3564	0.3564	0.3564	0.0000e+00	0.0000e+00
68	EMPTY	0.3711	0.3711	0.3711	0.0000e+00	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3904	9.6655e-04	0.0000e+00
70	EMPTY	0.4053	0.4102	0.4054	6.9053e-04	0.0000e+00
71	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
72	EMPTY	0.4443	0.4443	0.4443	0.0000e+00	0.0000e+00
73	EMPTY	0.4639	0.4639	0.4639	0.0000e+00	0.0000e+00
74	EMPTY	0.4785	0.4834	0.4818	2.3008e-03	0.0000e+00
75	EMPTY	0.4980	0.5029	0.4984	1.3381e-03	0.0000e+00
76	EMPTY	0.5127	0.5176	0.5135	1.8082e-03	0.0000e+00
77	EMPTY	0.5322	0.5371	0.5351	2.4344e-03	0.0000e+00
78	EMPTY	0.5566	0.5615	0.5568	9.6655e-04	0.0000e+00
79	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
80	PAN020136	50.6252	54.8977	52.2351	9.8783e-01	8.7975e-01
81	PAN050136	96.3328	98.4690	97.4619	4.5620e-01	1.6976e+00
82	PAN070136	71.8364	73.5149	72.6390	3.3637e-01	8.8875e-01
83	PAN080136	31.4933	32.4088	31.9297	2.0393e-01	8.7365e-01
84	PAN090136	32.5734	33.2600	32.9625	1.6690e-01	8.7389e-01
85	PAN100136	30.9923	32.5182	31.5248	2.7334e-01	8.7356e-01
86	PAN105136	16.0437	17.4170	16.6159	2.8053e-01	8.7099e-01
87	PAN110136	16.9628	17.4968	17.2481	1.2216e-01	8.7107e-01
88	PAN115136	21.9219	23.1426	22.6345	2.3810e-01	8.7184e-01
89	PAN120136	13.6951	15.2972	14.2047	2.8855e-01	8.7072e-01
90	PAN125136	17.0153	17.6256	17.3342	1.3410e-01	8.7108e-01
91	PAN130136	15.3672	16.0538	15.7319	1.3551e-01	8.7089e-01
92	PAN120048	33.1091	34.9402	34.0720	3.7150e-01	8.7416e-01
93	PAN130048	31.6467	32.5623	32.1472	2.0165e-01	8.7370e-01
94	PAN120224	37.4156	38.1786	37.8261	1.4935e-01	8.7512e-01
95	PAN130224	32.5898	33.1239	32.8996	1.3561e-01	8.7388e-01
96	PAN120312	34.0762	34.6865	34.3478	1.3627e-01	8.7423e-01
97	PAN130312	31.5604	32.3234	31.9434	1.7059e-01	8.7366e-01
98	PAB000136	40.3621	41.0029	40.6459	1.3112e-01	5.8883e-01
99	PAB100136	29.1981	29.4728	29.3455	6.4929e-02	5.8462e-01
100	PAB125136	26.0483	26.2315	26.1463	4.3388e-02	5.8367e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1948	41.0493	40.5951	1.7791e-01	7.5684e-01
102	PRV000001	19.2090	19.3311	19.2285	4.5206e-02	7.5154e-01
103	PSR000001	23.1123	23.2344	23.1270	4.0071e-02	7.5223e-01
104	PFM000001	85.6572	87.8544	86.6789	5.7884e-01	5.4494e-01
105	PAN000136	420.3176	429.4729	423.9890	2.2224e+00	5.0329e+00
106	PFM000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0097	6.9053e-04	0.0000e+00
108	EMPTY	-6.4648	-4.7900	-5.8164	2.6557e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0057	1.8082e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0042	1.7115e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1442	1.0625e-01	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.1027	7.9017e-02	8.1000e-01
114	VPW000003	0.0800	0.4706	0.2245	1.1027e-01	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0467	9.7377e-02	8.1000e-01
116	VPW000005	-0.1153	0.2753	0.0995	9.0412e-02	8.1000e-01
117	VPW000006	0.1553	0.3506	0.2295	9.5765e-02	8.1000e-01
118	IPW000001	0.3998	2.3522	1.4151	9.8529e-01	8.1000e+00
119	IPW000002	0.3996	4.3022	1.3362	1.1316e+00	8.1000e+00
120	IPW000003	-0.7987	5.0513	1.8533	1.1660e+00	8.1000e+00
121	IPW000004	0.3000	0.7883	0.4758	2.3675e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.3414	3.0625e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.2488	2.8334e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0202	3.2733e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.7902e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0178	2.7480e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0140	3.4187e-03	0.0000e+00
128	IHT000001	-0.2094	0.3766	0.0250	9.6655e-02	4.1000e+00
129	IHT000002	0.0706	0.4612	0.1448	1.0358e-01	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1275	1.0617e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1788	8.4997e-02	4.1000e+00
132	IHT000005	0.0753	0.4659	0.1652	1.1306e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2220	1.1334e-01	4.1000e+00
134	IHT000007	0.0400	0.4306	0.1337	1.1327e-01	4.1000e+00
135	IHT000008	0.0400	0.4306	0.1337	1.1327e-01	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0167	1.1334e-01	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1202	1.0942e-01	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0625	9.2034e-02	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.0914	1.1578e-01	4.1000e+00
140	IHT000013	-0.0094	0.1859	0.0336	8.1729e-02	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1114	1.0052e-01	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0861	9.5112e-02	4.1000e+00
143	IHT000016	-0.0800	0.3106	0.0255	1.0595e-01	4.1000e+00
144	IHT000017	0.1694	1.1459	0.6420	2.0538e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.1092	1.1027e-01	4.1000e+00
146	IHT000019	-0.1247	0.0706	-0.0388	9.7935e-02	4.1000e+00
147	IHT000020	-0.2188	0.3672	0.0898	1.1223e-01	4.1000e+00
148	IHT000021	-1.1934	-0.6075	-0.8575	1.3692e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0078	7.8523e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1209	7.8918e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0861	9.8332e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3991	8.8233e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.1073	8.8321e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1327	7.9017e-02	4.1000e+00
155	IHT000028	-0.0047	0.1906	0.0734	9.6655e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.1328	9.2034e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0977	9.8648e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2470	7.2866e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1639	6.2265e-02	4.1000e+00
160	IHT000033	-2.1706	-1.9753	-2.0066	7.2330e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1289	1.0145e-01	4.1000e+00
162	IHT000035	-0.0681	0.3225	0.1350	6.7888e-02	4.1000e+00
163	IHT000036	0.0800	0.2753	0.0995	5.9189e-02	4.1000e+00

Velocity 1 = 23.5874 (ft/sec) (+/- 3.4829 %)
Velocity 2 = 13.3636 (ft/sec) (+/- 3.4861 %)
Pressure drop = 15.4211 (psi)
Tsat in = 268.2848 (deg F) Tsat out = 242.2708 (deg F)
Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 632.6249 %)
Phi outer = 0.0001 (kBtu/hr-ft2) (+/- 918.4780 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.9100	78.5457	78.2473	1.6137e-01	1.9000e+00
1	TRF000002	76.8646	77.2866	76.9895	1.1330e-01	1.9000e+00
2	TFM000001	77.9283	78.7718	78.3259	2.2593e-01	1.9000e+00
3	TIN000001	85.3468	86.1878	85.7524	1.7027e-01	1.9002e+00
4	TRV000001	82.2040	82.9396	82.6354	1.8591e-01	1.9001e+00
5	TSR000001	77.5577	78.1915	77.9134	1.5178e-01	1.9000e+00
6	TAO020136	83.9370	84.8848	84.4938	2.3841e-01	1.9001e+00
7	TAO050136	83.5057	84.2405	83.9040	1.6298e-01	1.9001e+00
8	TAO070136	78.2915	79.0328	78.6979	1.8389e-01	1.9001e+00
9	TAO080136	82.5251	83.2593	82.9174	1.5419e-01	1.9001e+00
10	TAO090136	83.1062	84.0518	83.6233	2.1534e-01	1.9001e+00
11	TAO100136	83.2313	83.8625	83.5708	1.5226e-01	1.9001e+00
12	TAO105136	85.6313	86.4724	86.0602	1.8559e-01	1.9002e+00
13	EMPTY	40.0646	40.2940	40.1911	1.1529e-01	1.9011e+00
14	TAO115136	82.7447	83.6959	83.2196	2.3933e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9940	4.6120e-02	1.9008e+00
16	TAO125136	84.9587	85.4839	85.2372	1.2599e-01	1.9002e+00
17	TAO130136	83.4264	83.9495	83.6310	1.2355e-01	1.9001e+00
18	EMPTY	39.8352	40.2940	40.0553	1.0430e-01	1.9011e+00
19	TAO130048	84.5482	85.0736	84.8440	1.2253e-01	1.9001e+00
20	TAO120224	80.7483	81.5911	81.1956	2.0352e-01	1.9001e+00
21	EMPTY	-598.6110	-598.2032	-598.5612	1.3504e-01	2.1277e+00
22	TAO120312	83.3085	83.9405	83.5988	1.5125e-01	1.9001e+00
23	TAO130312	83.9439	84.5748	84.2337	1.5390e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.6125	1.7181e-01	1.9010e+00
25	TRT070000	83.6743	84.3082	83.9483	1.5066e-01	1.9001e+00
26	TRT100000	84.3307	85.0657	84.6719	2.0271e-01	1.9001e+00
27	TRT120000	83.6637	84.2951	84.0009	1.5479e-01	1.9001e+00
28	TRT125000	86.3566	87.1938	86.7818	1.8266e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9176	1.1060e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9242	2.0319e-01	1.9011e+00
31	TAF050136	84.6203	85.2496	84.9070	1.5111e-01	1.9001e+00
32	TAF070136	83.6237	84.5661	84.1021	1.9927e-01	1.9001e+00
33	TAF080136	83.0249	83.8638	83.5659	1.6893e-01	1.9001e+00
34	TAF090136	83.0344	83.9809	83.5261	2.4497e-01	1.9001e+00
35	TAF100136	83.5505	84.2873	83.9008	1.6698e-01	1.9001e+00
36	TAF105136	84.1598	85.1008	84.6884	2.5175e-01	1.9001e+00
37	TAF110136	82.1124	82.7439	82.4967	1.4948e-01	1.9001e+00
38	TAF115136	85.2212	86.0611	85.5750	2.1163e-01	1.9002e+00
39	TAF120136	84.7078	85.1288	84.9333	1.0732e-01	1.9002e+00
40	TAF125136	83.6735	84.3038	84.0358	1.6317e-01	1.9001e+00
41	TAF130136	83.4343	84.0658	83.7802	1.5926e-01	1.9001e+00
42	TAF120048	82.9820	84.0408	83.6001	2.0994e-01	1.9001e+00
43	TAF130048	84.0268	84.5529	84.2696	1.1998e-01	1.9001e+00
44	TAF120224	83.7080	84.4445	84.0085	1.6774e-01	1.9001e+00
45	TAF130224	83.5519	84.0796	83.7906	1.1736e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5604	1.8525e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6924	1.0899e-01	1.9010e+00
48	TAI130048	83.5829	84.9505	84.2055	3.3189e-01	1.9001e+00
49	EMPTY	31.0376	31.7493	31.3717	1.9917e-01	1.9007e+00
50	TAI130224	83.3481	84.6128	83.9830	2.9941e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2977	1.7050e-01	1.9010e+00
52	TRR130000	83.2939	84.2396	83.8043	2.5797e-01	1.9001e+00
53	TSI000001	46.1543	47.0217	46.5373	1.7989e-01	1.9004e+00
54	TSI000002	63.5825	64.6509	64.1473	2.6420e-01	1.9000e+00
55	TSO000001	46.3738	47.2447	46.8003	1.9226e-01	1.9004e+00
56	TSO000002	70.1355	71.0927	70.5435	2.0862e-01	1.9000e+00
57	TAF020136	77.4120	78.1549	77.7412	2.0930e-01	1.9000e+00
58	TAF120312	84.9273	85.9757	85.4385	2.4072e-01	1.9002e+00
59	TAF130312	82.6094	83.3451	82.9807	1.4236e-01	1.9001e+00
60	EMPTY	0.3271	0.3369	0.3318	1.3951e-03	0.0000e+00
61	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
62	EMPTY	0.3564	0.3613	0.3612	6.9754e-04	0.0000e+00
63	EMPTY	0.3760	0.3809	0.3765	1.4934e-03	0.0000e+00
64	EMPTY	0.2930	0.3027	0.2979	9.9670e-04	0.0000e+00
65	EMPTY	0.3174	0.3223	0.3185	2.0584e-03	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3368	6.9754e-04	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3561	1.1827e-03	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3701	1.9883e-03	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3873	2.3135e-03	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4052	6.9754e-04	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4294	1.1827e-03	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4438	1.4934e-03	0.0000e+00
73	EMPTY	0.4639	0.4639	0.4639	0.0000e+00	0.0000e+00
74	EMPTY	0.4785	0.4834	0.4787	9.7615e-04	0.0000e+00
75	EMPTY	0.4980	0.4980	0.4980	0.0000e+00	0.0000e+00
76	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
77	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
78	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
79	EMPTY	0.5762	0.5811	0.5777	2.2737e-03	0.0000e+00
80	PAN020136	50.3964	55.5344	52.6649	1.0911e+00	8.7991e-01
81	PAN050136	97.2483	99.3845	98.2012	4.9300e-01	1.6978e+00
82	PAN070136	72.2179	74.2778	73.0307	3.8355e-01	8.8895e-01
83	PAN080136	31.9510	32.7140	32.2734	2.0909e-01	8.7373e-01
84	PAN090136	32.8022	33.6415	33.2164	1.8095e-01	8.7395e-01
85	PAN100136	31.3738	32.4419	31.8424	2.3152e-01	8.7363e-01
86	PAN105136	16.2726	17.4170	16.7989	1.9837e-01	8.7101e-01
87	PAN110136	17.0391	17.5731	17.3224	1.0790e-01	8.7108e-01
88	PAN115136	22.3796	23.2189	22.7222	2.1017e-01	8.7185e-01
89	PAN120136	13.9240	14.8395	14.3599	1.8162e-01	8.7074e-01
90	PAN125136	17.0916	17.7019	17.4107	1.4330e-01	8.7109e-01
91	PAN130136	15.5961	16.0538	15.8374	1.1481e-01	8.7090e-01
92	PAN120048	33.6432	35.1691	34.2380	3.7955e-01	8.7420e-01
93	PAN130048	32.0282	32.8674	32.4081	1.8525e-01	8.7376e-01
94	PAN120224	37.7971	38.4075	38.0431	1.7500e-01	8.7518e-01
95	PAN130224	32.8187	33.5054	33.1192	1.7230e-01	8.7393e-01
96	PAN120312	34.2288	34.9917	34.5869	1.8440e-01	8.7429e-01
97	PAN130312	31.7893	32.4760	32.1396	1.6549e-01	8.7370e-01
98	PAB000136	40.3621	40.9114	40.6190	1.2141e-01	5.8882e-01
99	PAB100136	29.1066	29.3812	29.2252	5.1957e-02	5.8458e-01
100	PAB125136	25.9110	26.0941	26.0231	4.7702e-02	5.8364e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1948	40.9272	40.5859	2.0993e-01	7.5683e-01
102	PRV000001	19.5752	19.6973	19.5802	2.4404e-02	7.5160e-01
103	PSR000001	22.8682	22.9903	22.9878	1.7439e-02	7.5220e-01
104	PFM000001	86.1149	88.3122	87.0305	4.8768e-01	5.4529e-01
105	PAN000136	421.2332	431.7617	426.9412	2.3788e+00	5.0344e+00
106	PFM000002	27.7669	27.7669	27.7669	1.1563e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0096	9.7615e-04	0.0000e+00
108	EMPTY	-6.5283	-5.5029	-5.9003	1.9922e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0059	1.9883e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0041	1.8234e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1446	8.2141e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0952	8.2141e-02	8.1000e-01
114	VPW000003	0.0800	0.4706	0.2155	1.0701e-01	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0564	1.0625e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1557	9.6150e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1792	1.0268e-01	8.1000e-01
118	IPW000001	0.3998	2.3522	1.3959	9.8608e-01	8.1000e+00
119	IPW000002	-1.5516	4.3022	1.1961	1.1895e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.7482	1.2076e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.3797	2.0781e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.3701	2.7125e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.2399	3.2811e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0205	3.7266e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	3.0538e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0171	2.6600e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0137	3.3026e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0099	8.5810e-02	4.1000e+00
129	IHT000002	-0.1247	0.2659	0.1464	1.0409e-01	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1017	1.0409e-01	4.1000e+00
131	IHT000004	-0.0400	0.5459	0.1553	8.9148e-02	4.1000e+00
132	IHT000005	0.0753	0.4659	0.1471	1.0315e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2025	1.1276e-01	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1237	9.7656e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1317	9.8483e-02	4.1000e+00
136	IHT000009	-0.1200	0.0753	0.0355	7.9532e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1354	9.9629e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0837	9.7656e-02	4.1000e+00
139	IHT000012	-0.2328	0.1578	0.0701	1.0594e-01	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0305	1.0533e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1113	1.0156e-01	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0712	1.0299e-01	4.1000e+00
143	IHT000016	-0.0800	0.1153	-0.0083	9.5132e-02	4.1000e+00
144	IHT000017	0.1694	0.9506	0.6198	2.0408e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.0962	1.1546e-01	4.1000e+00
146	IHT000019	-0.1247	0.2659	-0.0450	1.0486e-01	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0523	9.6150e-02	4.1000e+00
148	IHT000021	-1.1934	-0.6075	-0.8905	1.2646e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	-0.0120	7.3601e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1162	8.2338e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0524	9.5132e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3959	8.6187e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0959	6.7148e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1281	8.3122e-02	4.1000e+00
155	IHT000028	-0.0047	0.1906	0.0671	9.5132e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.1076	1.0594e-01	4.1000e+00
157	IHT000030	0.0000	0.1953	0.1076	9.8153e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2552	9.1305e-02	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1520	6.8582e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9793	9.3412e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1515	9.1482e-02	4.1000e+00
162	IHT000035	-0.0681	0.5178	0.1511	1.0268e-01	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.1079	8.9148e-02	4.1000e+00

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Velocity 1 = 0.047100 (ft/sec)

Velocity 2 = 0.000300 (ft/sec)

Pressure Drop = 0.106600 (psi)

Tsat in = 0.039520 (deg F) Tsat out = 0.268799 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0653	0.0834
1	TRF000002	0.0068	0.0088
2	TFM000001	0.2029	0.2584
3	TIN000001	0.1432	0.1667
4	TRV000001	0.1887	0.2278
5	TSR000001	0.0184	0.0236
6	TAO020136	0.1321	0.1561
7	TAO050136	0.1451	0.1726
8	TAO070136	0.0321	0.0408
9	TAO080136	0.1806	0.2173
10	TAO090136	0.2081	0.2482
11	TAO100136	0.1929	0.2303
12	TAO105136	0.1533	0.1778
13	EMPTY	0.0112	0.0279
14	TAO115136	0.2126	0.2548
15	EMPTY	0.0228	0.0652
16	TAO125136	0.1392	0.1630
17	TAO130136	0.2245	0.2677
18	EMPTY	0.1103	0.2746
19	TAO130048	0.1764	0.2075
20	TAO120224	0.2123	0.2608
21	EMPTY	0.7658	0.1281
22	TAO120312	0.1458	0.1741
23	TAO130312	0.1371	0.1625
24	EMPTY	0.0107	0.0285
25	TRT070000	0.1639	0.1949
26	TRT100000	0.1778	0.2096
27	TRT120000	0.1783	0.2118
28	TRT125000	0.2002	0.2302
29	EMPTY	0.0200	0.0527
30	EMPTY	0.0441	0.1103
31	TAF050136	0.2059	0.2419
32	TAF070136	0.1390	0.1650
33	TAF080136	0.1440	0.1720
34	TAF090136	0.1081	0.1293
35	TAF100136	0.1614	0.1920
36	TAF105136	0.1253	0.1477
37	TAF110136	0.1477	0.1787
38	TAF115136	0.1356	0.1582
39	TAF120136	0.1924	0.2260
40	TAF125136	0.1310	0.1556
41	TAF130136	0.2034	0.2422
42	TAF120048	0.1762	0.2103
43	TAF130048	0.2056	0.2434
44	TAF120224	0.1561	0.1855
45	TAF130224	0.2238	0.2664

#	Name	Abs Diff	%Diff
46	EMPTY	0.0333	0.0910
47	EMPTY	0.0261	0.0693
48	TAI130048	0.2254	0.2670
49	EMPTY	0.2439	0.7835
50	TAI130224	0.1518	0.1804
51	EMPTY	0.0382	0.0998
52	TRR130000	0.2060	0.2452
53	TSI000001	0.0704	0.1510
54	TSI000002	0.1126	0.1752
55	TSO000001	0.0590	0.1259
56	TSO000002	0.0570	0.0809
57	TAF020136	0.0210	0.0270
58	TAF120312	0.1617	0.1889
59	TAF130312	0.1814	0.2181
60	EMPTY	0.0044	1.3087
61	EMPTY	0.0042	1.1969
62	EMPTY	0.0035	0.9597
63	EMPTY	0.0043	1.1292
64	EMPTY	0.0008	0.2678
65	EMPTY	0.0029	0.9023
66	EMPTY	0.0001	0.0297
67	EMPTY	0.0003	0.0842
68	EMPTY	0.0010	0.2695
69	EMPTY	0.0031	0.7941
70	EMPTY	0.0002	0.0493
71	EMPTY	0.0003	0.0698
72	EMPTY	0.0005	0.1125
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0031	0.6434
75	EMPTY	0.0004	0.0803
76	EMPTY	0.0008	0.1558
77	EMPTY	0.0029	0.5420
78	EMPTY	0.0002	0.0359
79	EMPTY	0.0034	0.5851
80	PAN020136	0.4298	0.8228
81	PAN050136	0.7393	0.7586
82	PAN070136	0.3917	0.5392
83	PAN080136	0.3437	1.0764
84	PAN090136	0.2539	0.7703
85	PAN100136	0.3176	1.0075
86	PAN105136	0.1830	1.1014
87	PAN110136	0.0743	0.4308
88	PAN115136	0.0877	0.3875
89	PAN120136	0.1552	1.0926
90	PAN125136	0.0765	0.4413
91	PAN130136	0.1055	0.6706
92	PAN120048	0.1660	0.4872
93	PAN130048	0.2609	0.8116
94	PAN120224	0.2170	0.5737
95	PAN130224	0.2196	0.6675
96	PAN120312	0.2391	0.6961
97	PAN130312	0.1962	0.6142
98	PAB000136	0.0269	0.0662
99	PAB100136	0.1203	0.4099
100	PAB125136	0.1232	0.4712

#	Name	Abs Diff	%Diff
101	PIN000001	0.0092	0.0227
102	PRV000001	0.3517	1.8291
103	PSR000001	0.1392	0.6019
104	PFM000001	0.3516	0.4056
105	PAN000136	2.9522	0.6963
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.0309
108	EMPTY	0.0839	1.4425
109	EMPTY	0.0002	3.5088
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	2.3809
112	VPW000001	0.0004	0.2774
113	VPW000002	0.0075	7.3028
114	VPW000003	0.0090	4.0089
115	VPW000004	0.0097	20.7709
116	VPW000005	0.0562	56.4824
117	VPW000006	0.0503	21.9172
118	IPW000001	0.0192	1.3568
119	IPW000002	0.1401	10.4850
120	IPW000003	0.1051	5.6710
121	IPW000004	0.0961	20.1976
122	IPW000005	0.0287	8.4066
123	IPW000006	0.0089	3.5772
124	EMPTY	0.0003	1.4852
125	EMPTY	0.0006	4.3796
126	EMPTY	0.0007	3.9326
127	EMPTY	0.0003	2.1429
128	IHT000001	0.0151	60.4000
129	IHT000002	0.0016	1.1050
130	IHT000003	0.0258	20.2353
131	IHT000004	0.0235	13.1432
132	IHT000005	0.0181	10.9564
133	IHT000006	0.0195	8.7838
134	IHT000007	0.0100	7.4794
135	IHT000008	0.0020	1.4959
136	IHT000009	0.0188	112.5749
137	IHT000010	0.0152	12.6456
138	IHT000011	0.0212	33.9200
139	IHT000012	0.0213	23.3042
140	IHT000013	0.0031	9.2262
141	IHT000014	0.0001	0.0898
142	IHT000015	0.0149	17.3055
143	IHT000016	0.0338	132.5490
144	IHT000017	0.0222	3.4580
145	IHT000018	0.0130	11.9048
146	IHT000019	0.0062	15.9794
147	IHT000020	0.0375	41.7595
148	IHT000021	0.0330	3.8484
149	IHT000022	0.0198	253.8462
150	IHT000023	0.0047	3.8875
151	IHT000024	0.0337	3.1028
152	IHT000025	0.0032	0.8018
153	IHT000026	0.0114	10.6244
154	IHT000027	0.0046	3.4665
155	IHT000028	0.0063	8.5831

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0252	18.9759
157	IHT000030	0.0099	10.1331
158	IHT000031	0.0082	3.3198
159	IHT000032	0.0119	7.2605
160	IHT000033	0.0273	1.3605
161	IHT000034	0.0226	17.5330
162	IHT000035	0.0161	11.9259
163	IHT000036	0.0084	8.4422

Velocity 1 = 24.8864 (ft/sec) (+/- 3.4806 %)
Velocity 2 = 13.3709 (ft/sec) (+/- 3.4861 %)
Pressure drop = 16.4300 (psi)
Tsats in = 268.1542 (deg F) Tsats out = 240.0149 (deg F)
Phi inner = 100.8845 (kBtu/hr-ft2) (+/- 1.5691 %)
Phi outer = 100.0792 (kBtu/hr-ft2) (+/- 1.5539 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3811	75.0186	74.7296	1.8594e-01	1.9000e+00
1	TRF000002	74.9413	75.5756	75.2120	1.1333e-01	1.9000e+00
2	TFM000001	85.9361	86.7745	86.3638	2.2392e-01	1.9002e+00
3	TIN000001	85.9965	86.6273	86.2784	1.4930e-01	1.9002e+00
4	TRV000001	85.9443	86.6777	86.3253	1.7023e-01	1.9002e+00
5	TSR000001	106.3982	107.6325	107.2498	2.4591e-01	1.9009e+00
6	TAO020136	155.5012	156.6970	156.1272	2.3570e-01	1.9050e+00
7	TAO050136	115.8344	116.6530	116.2927	1.6176e-01	1.9014e+00
8	TAO070136	118.0712	118.9951	118.5273	2.1474e-01	1.9016e+00
9	TAO080136	122.2806	122.9923	122.6259	1.8032e-01	1.9019e+00
10	TAO090136	123.4652	124.2800	123.9134	1.9177e-01	1.9020e+00
11	TAO100136	123.8514	124.5644	124.1163	1.7585e-01	1.9020e+00
12	TAO105136	124.1351	125.0520	124.5874	2.1111e-01	1.9020e+00
13	EMPTY	40.9819	41.6693	41.3165	1.3264e-01	1.9011e+00
14	TAO115136	127.6519	128.3653	128.0676	2.0352e-01	1.9023e+00
15	EMPTY	37.3074	37.9974	37.4914	1.2297e-01	1.9009e+00
16	TAO125136	122.7853	123.2948	123.0338	1.5014e-01	1.9019e+00
17	TAO130136	116.5104	117.0200	116.7744	1.3528e-01	1.9015e+00
18	EMPTY	41.2111	41.6693	41.4586	1.0182e-01	1.9012e+00
19	TAO130048	120.5116	121.0219	120.8174	1.3218e-01	1.9017e+00
20	TAO120224	121.7725	122.2828	121.9725	1.5424e-01	1.9018e+00
21	EMPTY	38.9168	39.1464	39.1051	8.9139e-02	1.9010e+00
22	TAO120312	126.8058	127.5177	127.2044	1.6672e-01	1.9022e+00
23	TAO130312	121.4248	121.9349	121.6857	1.4009e-01	1.9018e+00
24	EMPTY	38.9168	39.6057	39.2337	1.9066e-01	1.9010e+00
25	TRT070000	111.0921	112.1256	111.6381	2.1090e-01	1.9012e+00
26	TRT100000	121.1948	122.0106	121.5336	1.9477e-01	1.9018e+00
27	TRT120000	123.8410	124.4526	124.1428	1.5934e-01	1.9020e+00
28	TRT125000	125.4797	126.2913	125.8694	1.8799e-01	1.9021e+00
29	EMPTY	39.6057	40.0646	39.8306	8.6618e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7112	1.9237e-01	1.9011e+00
31	TAF050136	94.5503	95.1755	94.8671	1.8798e-01	1.9004e+00
32	TAF070136	97.8509	98.5760	98.2150	1.8969e-01	1.9005e+00
33	TAF080136	98.9660	99.6898	99.3842	1.4940e-01	1.9006e+00
34	TAF090136	99.7305	100.7678	100.3403	2.5018e-01	1.9006e+00
35	TAF100136	101.2042	102.0348	101.6403	1.8281e-01	1.9007e+00
36	TAF105136	102.0833	103.1145	102.6565	2.5994e-01	1.9007e+00
37	TAF110136	102.8106	103.4316	103.1336	1.7178e-01	1.9007e+00
38	TAF115136	104.0892	104.7100	104.4822	1.6964e-01	1.9008e+00
39	TAF120136	104.9167	105.3310	105.1075	1.2252e-01	1.9008e+00
40	TAF125136	105.6036	106.2228	105.9256	1.6611e-01	1.9009e+00
41	TAF130136	106.0798	106.6999	106.3941	1.5335e-01	1.9009e+00
42	TAF120048	108.0462	108.9802	108.4735	2.3476e-01	1.9010e+00
43	TAF130048	108.4663	108.9826	108.6935	1.3187e-01	1.9010e+00
44	TAF120224	105.6459	106.3690	105.9517	1.7577e-01	1.9009e+00
45	TAF130224	106.1077	106.7292	106.3979	1.5522e-01	1.9009e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.3074	38.2273	37.9238	2.2969e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1419	7.3217e-02	1.9010e+00
48	TAI130048	124.4301	125.8553	125.1999	2.9804e-01	1.9021e+00
49	EMPTY	37.9974	38.6870	38.3285	1.8082e-01	1.9010e+00
50	TAI130224	121.4327	122.5575	121.9360	2.8688e-01	1.9018e+00
51	EMPTY	39.8352	40.5234	40.2161	1.7715e-01	1.9011e+00
52	TRR130000	78.5577	81.1894	80.2385	4.3321e-01	1.9001e+00
53	TSI000001	50.2903	51.0462	50.7393	1.8433e-01	1.9002e+00
54	TSI000002	72.7684	75.0966	74.0267	5.2917e-01	1.9000e+00
55	TSO000001	49.4460	50.4226	49.9284	1.8763e-01	1.9003e+00
56	TSO000002	54.7365	55.8142	55.3488	2.4286e-01	1.9001e+00
57	TAF020136	88.6431	89.4844	89.0555	2.1127e-01	1.9002e+00
58	TAF120312	106.8779	108.0132	107.3609	2.7850e-01	1.9009e+00
59	TAF130312	108.0971	108.7162	108.4026	1.6665e-01	1.9010e+00
60	EMPTY	0.9766	0.9863	0.9808	1.9754e-03	0.0000e+00
61	EMPTY	0.9863	0.9912	0.9910	9.6655e-04	0.0000e+00
62	EMPTY	1.0010	1.0010	1.0010	0.0000e+00	0.0000e+00
63	EMPTY	1.0107	1.0156	1.0136	2.4344e-03	0.0000e+00
64	EMPTY	0.5713	0.5762	0.5759	1.1714e-03	0.0000e+00
65	EMPTY	0.5908	0.5957	0.5956	6.9053e-04	0.0000e+00
66	EMPTY	0.6055	0.6104	0.6103	6.9053e-04	0.0000e+00
67	EMPTY	0.6250	0.6299	0.6276	2.4583e-03	0.0000e+00
68	EMPTY	0.6348	0.6396	0.6396	6.9053e-04	0.0000e+00
69	EMPTY	0.6543	0.6592	0.6578	2.2146e-03	0.0000e+00
70	EMPTY	0.6689	0.6738	0.6722	2.3365e-03	0.0000e+00
71	EMPTY	0.6885	0.6982	0.6935	1.2041e-03	0.0000e+00
72	EMPTY	0.7031	0.7080	0.7076	1.3381e-03	0.0000e+00
73	EMPTY	0.7227	0.7275	0.7249	2.4583e-03	0.0000e+00
74	EMPTY	0.7373	0.7520	0.7383	2.6100e-03	0.0000e+00
75	EMPTY	0.7520	0.7568	0.7566	9.6655e-04	0.0000e+00
76	EMPTY	0.7666	0.7715	0.7688	2.4583e-03	0.0000e+00
77	EMPTY	0.7861	0.7910	0.7866	1.4797e-03	0.0000e+00
78	EMPTY	0.8057	0.8105	0.8099	1.7115e-03	0.0000e+00
79	EMPTY	0.8252	0.8301	0.8300	6.9053e-04	0.0000e+00
80	PAN020136	55.9658	59.3990	57.6122	8.0876e-01	8.8184e-01
81	PAN050136	104.0522	105.7307	104.9495	3.9675e-01	1.7004e+00
82	PAN070136	77.0695	78.6716	78.0079	2.8348e-01	8.9159e-01
83	PAN080136	32.6827	34.2849	33.4594	3.9799e-01	8.7401e-01
84	PAN090136	33.7628	35.2124	34.5898	2.9863e-01	8.7429e-01
85	PAN100136	33.4475	34.8208	34.0579	2.9968e-01	8.7416e-01
86	PAN105136	18.2875	19.4319	18.6339	2.2027e-01	8.7125e-01
87	PAN110136	18.2736	18.7313	18.4826	1.0202e-01	8.7123e-01
88	PAN115136	23.3402	24.7135	24.0009	3.0307e-01	8.7207e-01
89	PAN120136	14.3054	15.2972	14.8364	2.4660e-01	8.7079e-01
90	PAN125136	17.9014	19.1221	18.3301	2.5039e-01	8.7121e-01
91	PAN130136	16.1145	16.5723	16.3464	1.1633e-01	8.7096e-01
92	PAN120048	35.6406	37.0139	36.1640	2.8672e-01	8.7469e-01
93	PAN130048	34.1470	35.3677	34.7146	2.6571e-01	8.7432e-01
94	PAN120224	39.8708	40.4812	40.1806	1.0501e-01	8.7578e-01
95	PAN130224	34.5110	35.2739	34.8513	1.6544e-01	8.7435e-01
96	PAN120312	35.7841	36.5470	36.1350	1.6239e-01	8.7468e-01
97	PAN130312	31.7737	32.9181	32.3108	3.2257e-01	8.7374e-01
98	PAB000136	40.3023	40.8058	40.5302	1.1040e-01	5.8878e-01
99	PAB100136	28.2967	28.4798	28.3938	5.0350e-02	5.8433e-01
100	PAB125136	24.9274	25.0648	25.0080	3.8754e-02	5.8336e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2249	40.8353	40.4788	1.3916e-01	7.5680e-01
102	PRV000001	20.2157	20.3378	20.2182	1.7263e-02	7.5170e-01
103	PSR000001	21.3614	21.6056	21.4835	3.4877e-02	7.5192e-01
104	PFM000001	95.9276	97.5756	96.7901	4.1610e-01	5.5547e-01
105	PAN000136	451.6221	460.3196	454.8722	1.7407e+00	5.0497e+00
106	PFM000002	27.7600	27.7600	27.7600	1.5414e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0083	2.2603e-03	0.0000e+00
108	EMPTY	-8.2227	-6.5430	-7.3029	4.6377e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	100.5906	101.1766	100.8797	1.1327e-01	1.0112e+00
113	VPW000002	118.3547	118.9406	118.6828	1.1464e-01	1.0785e+00
114	VPW000003	145.6631	146.4444	146.0459	1.4743e-01	1.1933e+00
115	VPW000004	104.2616	104.8475	104.4881	1.3873e-01	1.0243e+00
116	VPW000005	138.7472	139.3331	138.9815	1.3087e-01	1.1625e+00
117	VPW000006	146.5197	147.1056	146.8282	1.2534e-01	1.1967e+00
118	IPW000001	532.1901	538.0472	535.1580	1.3224e+00	9.1370e+00
119	IPW000002	1311.2531	1319.0582	1315.1555	2.0484e+00	1.3174e+01
120	IPW000003	1338.8044	1346.6044	1342.9385	1.7459e+00	1.3348e+01
121	IPW000004	379.4828	381.4359	380.3224	3.9508e-01	3.6093e+00
122	IPW000005	254.0808	255.5455	254.8132	3.5905e-01	2.8377e+00
123	IPW000006	265.1367	267.0898	266.0254	3.7809e-01	2.9012e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	2.9856e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.7267e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0180	3.4793e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.1195e-03	0.0000e+00
128	IHT000001	129.6334	131.9772	130.8678	5.3151e-01	4.3038e+00
129	IHT000002	133.3491	135.6928	134.5171	5.8059e-01	4.3150e+00
130	IHT000003	133.1491	135.4928	134.2037	5.3525e-01	4.3141e+00
131	IHT000004	131.6759	134.2150	132.5939	5.7352e-01	4.3091e+00
132	IHT000005	130.2287	132.5725	131.1232	5.3972e-01	4.3046e+00
133	IHT000006	125.0025	127.9322	126.0454	5.9137e-01	4.2894e+00
134	IHT000007	131.9913	134.7256	132.8545	5.9463e-01	4.3099e+00
135	IHT000008	130.4288	133.3584	131.4639	5.8958e-01	4.3056e+00
136	IHT000009	130.9347	133.4738	131.9307	5.3706e-01	4.3070e+00
137	IHT000010	132.7325	134.8809	133.8301	5.0823e-01	4.3129e+00
138	IHT000011	131.0547	133.2031	132.1992	4.8969e-01	4.3079e+00
139	IHT000012	128.6734	130.8219	129.9351	5.1782e-01	4.3010e+00
140	IHT000013	91.9781	93.9313	93.1617	4.7582e-01	4.2045e+00
141	IHT000014	127.6144	129.9581	128.8448	4.9482e-01	4.2977e+00
142	IHT000015	94.9172	97.0656	95.8156	4.6186e-01	4.2105e+00
143	IHT000016	88.4366	90.5850	89.4405	4.3227e-01	4.1964e+00
144	IHT000017	106.4453	108.7891	107.3633	5.1637e-01	4.2382e+00
145	IHT000018	-0.8166	1.1366	0.1405	4.3450e-01	4.1000e+00
146	IHT000019	107.5372	109.4903	108.3184	4.3225e-01	4.2407e+00
147	IHT000020	106.1466	108.4903	107.1582	4.9864e-01	4.2377e+00
148	IHT000021	0.9103	3.0588	1.8087	4.1573e-01	4.1000e+00
149	IHT000022	92.4981	94.6466	93.3965	4.8488e-01	4.2050e+00
150	IHT000023	105.7441	107.6972	106.5761	4.8135e-01	4.2363e+00
151	IHT000024	67.3022	69.0600	68.0405	4.2734e-01	4.1561e+00
152	IHT000025	103.3509	105.6947	104.2845	4.5213e-01	4.2305e+00
153	IHT000026	105.5088	107.8525	106.4658	4.7719e-01	4.2360e+00
154	IHT000027	89.9238	92.0722	90.7363	4.4879e-01	4.1992e+00
155	IHT000028	90.1897	92.7288	91.3654	5.2123e-01	4.2006e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8594	108.5938	107.1445	5.7465e-01	4.2377e+00
157	IHT000030	108.3184	111.2481	109.8223	5.4996e-01	4.2445e+00
158	IHT000031	105.9347	108.8644	107.5909	5.2975e-01	4.2388e+00
159	IHT000032	107.3066	110.0409	108.5449	5.0626e-01	4.2412e+00
160	IHT000033	-1.5872	0.7566	-0.3997	4.4615e-01	4.1000e+00
161	IHT000034	94.4912	96.2491	95.2022	4.5122e-01	4.2091e+00
162	IHT000035	124.2659	126.4144	125.1840	4.7392e-01	4.2869e+00
163	IHT000036	92.9688	94.7266	93.7813	4.6078e-01	4.2059e+00

Velocity 1 = 24.9134 (ft/sec) (+/- 3.4806 %)
 Velocity 2 = 13.3711 (ft/sec) (+/- 3.4861 %)
 Pressure drop = 16.4422 (psi)
 Tsat in = 267.7636 (deg F) Tsat out = 239.3635 (deg F)
 Phi inner = 100.9203 (kBtu/hr-ft2) (+/- 1.5690 %)
 Phi outer = 100.1924 (kBtu/hr-ft2) (+/- 1.5536 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.5936	75.2310	74.8581	1.7092e-01	1.9000e+00
1	TRF000002	75.1527	75.5756	75.2995	1.3093e-01	1.9000e+00
2	TFM000001	86.0409	86.9839	86.5332	2.3156e-01	1.9002e+00
3	TIN000001	85.9962	86.7320	86.4428	1.5397e-01	1.9002e+00
4	TRV000001	86.0491	86.9918	86.4894	2.1151e-01	1.9002e+00
5	TSR000001	107.2205	108.3520	107.6975	2.3735e-01	1.9010e+00
6	TAO020136	156.1987	156.9959	156.6076	2.1446e-01	1.9050e+00
7	TAO050136	116.0396	116.8568	116.4192	2.1784e-01	1.9015e+00
8	TAO070136	118.1738	118.9959	118.6180	2.1618e-01	1.9016e+00
9	TAO080136	122.1801	122.8919	122.6109	1.7065e-01	1.9019e+00
10	TAO090136	123.4663	124.3821	123.9104	2.0739e-01	1.9020e+00
11	TAO100136	123.7501	124.4631	124.0866	1.7046e-01	1.9020e+00
12	TAO105136	124.1351	124.8484	124.4242	1.7683e-01	1.9020e+00
13	EMPTY	40.9819	41.4403	41.3000	1.3077e-01	1.9011e+00
14	TAO115136	127.6513	128.4665	128.0487	2.0711e-01	1.9023e+00
15	EMPTY	37.3074	37.5374	37.4482	1.1327e-01	1.9009e+00
16	TAO125136	122.7853	123.3971	123.0579	1.3222e-01	1.9019e+00
17	TAO130136	116.5104	117.6254	116.8905	1.8532e-01	1.9015e+00
18	EMPTY	41.2111	41.6693	41.4590	7.8760e-02	1.9012e+00
19	TAO130048	120.6136	121.3278	120.9051	1.7296e-01	1.9017e+00
20	TAO120224	121.7725	122.4866	122.0579	1.7174e-01	1.9018e+00
21	EMPTY	38.9168	39.1464	39.0761	1.0696e-01	1.9010e+00
22	TAO120312	126.9073	127.6196	127.2686	1.8101e-01	1.9022e+00
23	TAO130312	121.5267	122.2406	121.8181	1.6260e-01	1.9018e+00
24	EMPTY	38.9168	39.6057	39.2167	1.8277e-01	1.9010e+00
25	TRT070000	111.4017	112.2287	111.7754	1.9068e-01	1.9012e+00
26	TRT100000	121.0937	122.1129	121.6448	2.0899e-01	1.9018e+00
27	TRT120000	123.7397	124.5547	124.1990	1.8952e-01	1.9020e+00
28	TRT125000	125.6838	126.4932	125.9936	1.9547e-01	1.9021e+00
29	EMPTY	39.6057	40.0646	39.8305	1.0976e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6431	2.0608e-01	1.9011e+00
31	TAF050136	94.6548	95.4870	95.0181	1.6337e-01	1.9004e+00
32	TAF070136	97.8509	98.7824	98.3602	2.2839e-01	1.9005e+00
33	TAF080136	99.0702	99.7940	99.5155	1.5712e-01	1.9006e+00
34	TAF090136	99.9379	101.0790	100.4165	2.7739e-01	1.9006e+00
35	TAF100136	101.3082	102.1386	101.7551	1.8128e-01	1.9007e+00
36	TAF105136	102.1872	103.1145	102.7279	2.2975e-01	1.9007e+00
37	TAF110136	102.8121	103.5355	103.2375	1.7736e-01	1.9007e+00
38	TAF115136	104.1930	105.0199	104.5916	1.9435e-01	1.9008e+00
39	TAF120136	104.8148	105.4346	105.2127	1.3177e-01	1.9008e+00
40	TAF125136	105.7073	106.4280	106.0209	1.7963e-01	1.9009e+00
41	TAF130136	106.2869	106.8034	106.5312	1.3614e-01	1.9009e+00
42	TAF120048	108.1492	108.9789	108.5134	2.4225e-01	1.9010e+00
43	TAF130048	108.5697	109.0855	108.7824	1.2533e-01	1.9010e+00
44	TAF120224	105.6459	106.4726	106.0571	2.1442e-01	1.9009e+00
45	TAF130224	106.2114	106.8328	106.4796	1.5081e-01	1.9009e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9176	2.0755e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1230	9.6591e-02	1.9010e+00
48	TAI130048	124.7358	125.9573	125.2656	3.2709e-01	1.9021e+00
49	EMPTY	37.9974	38.6870	38.2695	1.7974e-01	1.9010e+00
50	TAI130224	121.4324	122.6598	122.0108	3.1419e-01	1.9018e+00
51	EMPTY	39.8352	40.5234	40.0974	1.7523e-01	1.9011e+00
52	TRR130000	79.2954	81.9255	80.7024	6.5183e-01	1.9001e+00
53	TSI000001	50.2903	51.1541	50.7158	1.9887e-01	1.9003e+00
54	TSI000002	73.9333	76.5766	75.3689	6.4903e-01	1.9000e+00
55	TSO000001	49.5534	50.4231	49.8911	2.1623e-01	1.9003e+00
56	TSO000002	54.9525	55.9217	55.3701	2.3340e-01	1.9001e+00
57	TAF020136	88.7468	89.6952	89.2010	2.2244e-01	1.9002e+00
58	TAF120312	106.9814	108.1166	107.4657	2.4854e-01	1.9009e+00
59	TAF130312	108.2005	109.0250	108.5267	1.7394e-01	1.9010e+00
60	EMPTY	0.9766	0.9814	0.9807	1.7263e-03	0.0000e+00
61	EMPTY	0.9863	0.9961	0.9910	1.3951e-03	0.0000e+00
62	EMPTY	0.9961	1.0010	1.0006	1.3508e-03	0.0000e+00
63	EMPTY	1.0107	1.0205	1.0142	2.4414e-03	0.0000e+00
64	EMPTY	0.5713	0.5762	0.5755	1.7263e-03	0.0000e+00
65	EMPTY	0.5908	0.5957	0.5947	1.9883e-03	0.0000e+00
66	EMPTY	0.6055	0.6104	0.6100	1.3508e-03	0.0000e+00
67	EMPTY	0.6250	0.6348	0.6259	2.1547e-03	0.0000e+00
68	EMPTY	0.6348	0.6445	0.6396	9.9670e-04	0.0000e+00
69	EMPTY	0.6543	0.6592	0.6555	2.1215e-03	0.0000e+00
70	EMPTY	0.6689	0.6738	0.6701	2.1215e-03	0.0000e+00
71	EMPTY	0.6885	0.6934	0.6933	6.9754e-04	0.0000e+00
72	EMPTY	0.7031	0.7080	0.7058	2.4538e-03	0.0000e+00
73	EMPTY	0.7178	0.7275	0.7230	1.5467e-03	0.0000e+00
74	EMPTY	0.7373	0.7422	0.7376	1.1827e-03	0.0000e+00
75	EMPTY	0.7520	0.7568	0.7548	2.4247e-03	0.0000e+00
76	EMPTY	0.7666	0.7715	0.7670	1.3508e-03	0.0000e+00
77	EMPTY	0.7813	0.7910	0.7862	1.2165e-03	0.0000e+00
78	EMPTY	0.8057	0.8154	0.8077	2.6216e-03	0.0000e+00
79	EMPTY	0.8252	0.8301	0.8299	9.7615e-04	0.0000e+00
80	PAN020136	55.5844	58.4835	57.3547	7.3046e-01	8.8174e-01
81	PAN050136	104.3574	105.8833	105.0518	4.2026e-01	1.7004e+00
82	PAN070136	77.3746	78.9005	78.0831	3.5101e-01	8.9163e-01
83	PAN080136	32.9879	34.3612	33.4986	3.1886e-01	8.7402e-01
84	PAN090136	33.9917	35.2124	34.6067	2.5938e-01	8.7429e-01
85	PAN100136	33.3712	34.5919	34.0952	2.8763e-01	8.7417e-01
86	PAN105136	18.2112	19.0504	18.6425	1.7519e-01	8.7125e-01
87	PAN110136	18.1973	18.9602	18.5507	1.4749e-01	8.7124e-01
88	PAN115136	23.3402	24.6372	24.0269	2.6337e-01	8.7207e-01
89	PAN120136	14.0765	15.4498	14.8613	2.9630e-01	8.7079e-01
90	PAN125136	17.9014	18.8169	18.4884	1.8895e-01	8.7123e-01
91	PAN130136	15.9619	16.6486	16.2858	1.5061e-01	8.7095e-01
92	PAN120048	35.2592	36.7850	36.0345	3.5147e-01	8.7465e-01
93	PAN130048	34.2996	35.5203	34.8118	2.9260e-01	8.7434e-01
94	PAN120224	39.7183	40.6338	40.1823	1.8482e-01	8.7578e-01
95	PAN130224	34.5873	35.3502	34.8893	1.6552e-01	8.7436e-01
96	PAN120312	35.7078	36.5470	36.1702	1.7716e-01	8.7469e-01
97	PAN130312	32.9944	33.8336	33.4039	1.9118e-01	8.7400e-01
98	PAB000136	39.9819	40.5770	40.2658	1.4015e-01	5.8867e-01
99	PAB100136	27.9305	28.3883	28.1295	1.3200e-01	5.8425e-01
100	PAB125136	24.5154	24.9732	24.7210	1.5186e-01	5.8328e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7366	40.7132	40.1551	1.8140e-01	7.5669e-01
102	PRV000001	20.0936	20.2157	20.0986	2.4404e-02	7.5168e-01
103	PSR000001	21.1173	21.4835	21.3116	1.3166e-01	7.5189e-01
104	PFM000001	95.9276	97.6671	96.9983	3.8445e-01	5.5570e-01
105	PAN000136	449.7910	459.4041	455.2094	1.9895e+00	5.0499e+00
106	PFM000002	27.7600	27.7600	27.7600	1.3490e-05	2.1170e-01
107	EMPTY	0.0049	0.0146	0.0097	1.2165e-03	0.0000e+00
108	EMPTY	-8.3984	-6.5430	-7.1309	3.0135e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0052	1.5467e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0007	1.7263e-03	0.0000e+00
112	VPW000001	100.3953	101.1766	100.8736	1.4950e-01	1.0111e+00
113	VPW000002	118.5500	118.9406	118.7572	1.2229e-01	1.0788e+00
114	VPW000003	145.6631	146.4444	146.0258	1.7378e-01	1.1932e+00
115	VPW000004	104.2616	105.0428	104.6323	1.6069e-01	1.0248e+00
116	VPW000005	138.5519	139.3331	139.0142	1.8992e-01	1.1627e+00
117	VPW000006	146.5197	147.3009	146.9182	1.9515e-01	1.1971e+00
118	IPW000001	530.2378	536.0948	532.9072	1.4199e+00	9.1287e+00
119	IPW000002	1313.2043	1321.0094	1317.8236	1.6754e+00	1.3191e+01
120	IPW000003	1338.8044	1348.5544	1343.2618	1.9500e+00	1.3350e+01
121	IPW000004	379.9711	382.4125	381.1268	5.1496e-01	3.6146e+00
122	IPW000005	254.0808	255.5455	254.7485	4.3090e-01	2.8373e+00
123	IPW000006	265.1367	267.0898	266.2927	4.4231e-01	2.9027e+00
124	EMPTY	-0.0244	-0.0098	-0.0186	3.6856e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0132	2.6752e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0141	2.9284e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	2.8370e-03	0.0000e+00
128	IHT000001	129.8288	131.9772	130.8611	5.4809e-01	4.3038e+00
129	IHT000002	133.5444	135.6928	134.5130	5.7354e-01	4.3150e+00
130	IHT000003	133.1491	135.2975	134.2292	5.2756e-01	4.3141e+00
131	IHT000004	131.2853	133.8244	132.6246	5.4664e-01	4.3092e+00
132	IHT000005	129.8381	131.9866	131.1255	5.0100e-01	4.3046e+00
133	IHT000006	125.0025	127.1509	126.0787	5.0133e-01	4.2895e+00
134	IHT000007	131.7959	133.9444	132.9239	4.8708e-01	4.3101e+00
135	IHT000008	130.6241	132.5772	131.5528	4.9399e-01	4.3059e+00
136	IHT000009	130.9347	133.0831	132.0029	5.2454e-01	4.3073e+00
137	IHT000010	132.7325	135.0762	133.8764	5.8322e-01	4.3130e+00
138	IHT000011	131.2500	133.3984	132.3541	5.4453e-01	4.3083e+00
139	IHT000012	129.0641	131.4078	130.0964	5.4373e-01	4.3015e+00
140	IHT000013	92.1734	94.7125	93.3652	5.6837e-01	4.2050e+00
141	IHT000014	127.8097	130.1534	128.9615	5.8219e-01	4.2980e+00
142	IHT000015	94.9172	97.2609	95.9854	5.5830e-01	4.2109e+00
143	IHT000016	88.4366	91.1709	89.4649	5.8969e-01	4.1965e+00
144	IHT000017	106.4453	109.7656	107.5494	6.4968e-01	4.2387e+00
145	IHT000018	-0.8166	1.5272	0.0883	5.4035e-01	4.1000e+00
146	IHT000019	107.3419	109.4903	108.2626	4.7341e-01	4.2405e+00
147	IHT000020	106.1466	108.2950	107.0553	4.8592e-01	4.2375e+00
148	IHT000021	0.9103	2.8634	1.7195	4.3491e-01	4.1000e+00
149	IHT000022	92.4981	94.4512	93.2514	4.7172e-01	4.2047e+00
150	IHT000023	105.9394	107.3066	106.5652	4.3120e-01	4.2362e+00
151	IHT000024	67.3022	68.8647	67.9878	4.0486e-01	4.1560e+00
152	IHT000025	103.5462	105.1087	104.2518	3.8409e-01	4.2305e+00
153	IHT000026	105.5088	107.6572	106.4654	4.3536e-01	4.2360e+00
154	IHT000027	89.7284	91.8769	90.6133	4.2399e-01	4.1989e+00
155	IHT000028	90.5803	92.1428	91.2978	3.9945e-01	4.2004e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.4453	108.0078	107.1468	4.0837e-01	4.2377e+00
157	IHT000030	109.0997	110.6622	109.8490	4.2818e-01	4.2446e+00
158	IHT000031	106.9112	108.2784	107.6167	3.7360e-01	4.2389e+00
159	IHT000032	107.8925	109.2597	108.6180	4.0265e-01	4.2414e+00
160	IHT000033	-1.0013	0.3659	-0.3436	3.5141e-01	4.1000e+00
161	IHT000034	94.4912	96.2491	95.4000	4.0960e-01	4.2095e+00
162	IHT000035	124.4613	126.4144	125.2904	4.5723e-01	4.2872e+00
163	IHT000036	93.1641	94.9219	93.9373	3.8439e-01	4.2062e+00

Velocity 1 = 0.027000 (ft/sec)
 Velocity 2 = 0.000200 (ft/sec)
 Pressure Drop = 0.012199 (psi)
 Tsat in = 0.390594 (deg F) Tsat out = 0.651398 (deg F)
 Phi inner = 0.035805 (kBtu/hr-ft2) Phi outer = 0.113197 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1285	0.1720
1	TRF000002	0.0875	0.1163
2	TFM000001	0.1694	0.1962
3	TIN000001	0.1644	0.1906
4	TRV000001	0.1641	0.1901
5	TSR000001	0.4477	0.4174
6	TAO020136	0.4804	0.3077
7	TAO050136	0.1265	0.1088
8	TAO070136	0.0907	0.0765
9	TAO080136	0.0150	0.0122
10	TAO090136	0.0030	0.0024
11	TAO100136	0.0297	0.0239
12	TAO105136	0.1632	0.1310
13	EMPTY	0.0165	0.0399
14	TAO115136	0.0189	0.0148
15	EMPTY	0.0432	0.1152
16	TAO125136	0.0241	0.0196
17	TAO130136	0.1161	0.0994
18	EMPTY	0.0004	0.0010
19	TAO130048	0.0877	0.0726
20	TAO120224	0.0854	0.0700
21	EMPTY	0.0290	0.0742
22	TAO120312	0.0642	0.0505
23	TAO130312	0.1324	0.1088
24	EMPTY	0.0170	0.0433
25	TRT070000	0.1373	0.1230
26	TRT100000	0.1112	0.0915
27	TRT120000	0.0562	0.0453
28	TRT125000	0.1242	0.0987
29	EMPTY	0.0001	0.0002
30	EMPTY	0.0681	0.1715
31	TAF050136	0.1510	0.1592
32	TAF070136	0.1452	0.1478
33	TAF080136	0.1313	0.1321
34	TAF090136	0.0762	0.0759
35	TAF100136	0.1148	0.1129
36	TAF105136	0.0714	0.0695
37	TAF110136	0.1039	0.1007
38	TAF115136	0.1094	0.1047
39	TAF120136	0.1052	0.1001
40	TAF125136	0.0953	0.0900
41	TAF130136	0.1371	0.1289
42	TAF120048	0.0399	0.0368
43	TAF130048	0.0889	0.0818
44	TAF120224	0.1054	0.0995
45	TAF130224	0.0817	0.0768

#	Name	Abs Diff	%Diff
46	EMPTY	0.0062	0.0164
47	EMPTY	0.0189	0.0483
48	TAI130048	0.0657	0.0525
49	EMPTY	0.0590	0.1539
50	TAI130224	0.0748	0.0613
51	EMPTY	0.1187	0.2952
52	TRR130000	0.4639	0.5781
53	TSI000001	0.0235	0.0463
54	TSI000002	1.3422	1.8131
55	TSO000001	0.0373	0.0747
56	TSO000002	0.0213	0.0385
57	TAF020136	0.1455	0.1634
58	TAF120312	0.1048	0.0976
59	TAF130312	0.1241	0.1145
60	EMPTY	0.0001	0.0102
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0004	0.0400
63	EMPTY	0.0006	0.0592
64	EMPTY	0.0004	0.0695
65	EMPTY	0.0009	0.1511
66	EMPTY	0.0003	0.0492
67	EMPTY	0.0017	0.2709
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0023	0.3497
70	EMPTY	0.0021	0.3124
71	EMPTY	0.0002	0.0288
72	EMPTY	0.0018	0.2544
73	EMPTY	0.0019	0.2621
74	EMPTY	0.0007	0.0948
75	EMPTY	0.0018	0.2379
76	EMPTY	0.0018	0.2341
77	EMPTY	0.0004	0.0509
78	EMPTY	0.0022	0.2716
79	EMPTY	0.0001	0.0120
80	PAN020136	0.2575	0.4470
81	PAN050136	0.1023	0.0975
82	PAN070136	0.0752	0.0964
83	PAN080136	0.0392	0.1172
84	PAN090136	0.0169	0.0489
85	PAN100136	0.0373	0.1095
86	PAN105136	0.0086	0.0462
87	PAN110136	0.0681	0.3685
88	PAN115136	0.0260	0.1083
89	PAN120136	0.0249	0.1678
90	PAN125136	0.1583	0.8636
91	PAN130136	0.0606	0.3707
92	PAN120048	0.1295	0.3581
93	PAN130048	0.0972	0.2800
94	PAN120224	0.0017	0.0042
95	PAN130224	0.0380	0.1090
96	PAN120312	0.0352	0.0974
97	PAN130312	1.0931	3.3831
98	PAB000136	0.2644	0.6524
99	PAB100136	0.2643	0.9308
100	PAB125136	0.2870	1.1476

#	Name	Abs Diff	%Diff
101	PIN000001	0.3237	0.7997
102	PRV000001	0.1196	0.5915
103	PSR000001	0.1719	0.8001
104	PFM000001	0.2082	0.2151
105	PAN000136	0.3372	0.0741
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0014	16.8675
108	EMPTY	0.1720	2.3552
109	EMPTY	0.0004	8.3333
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0007	100.0000
112	VPW000001	0.0061	0.0061
113	VPW000002	0.0744	0.0627
114	VPW000003	0.0201	0.0138
115	VPW000004	0.1442	0.1380
116	VPW000005	0.0327	0.0235
117	VPW000006	0.0900	0.0613
118	IPW000001	2.2508	0.4206
119	IPW000002	2.6681	0.2029
120	IPW000003	0.3234	0.0241
121	IPW000004	0.8044	0.2115
122	IPW000005	0.0647	0.0254
123	IPW000006	0.2673	0.1005
124	EMPTY	0.0031	14.2857
125	EMPTY	0.0009	6.3830
126	EMPTY	0.0039	21.6667
127	EMPTY	0.0003	1.8072
128	IHT000001	0.0067	0.0051
129	IHT000002	0.0041	0.0031
130	IHT000003	0.0255	0.0190
131	IHT000004	0.0307	0.0232
132	IHT000005	0.0023	0.0018
133	IHT000006	0.0333	0.0264
134	IHT000007	0.0694	0.0522
135	IHT000008	0.0889	0.0676
136	IHT000009	0.0722	0.0547
137	IHT000010	0.0463	0.0346
138	IHT000011	0.1549	0.1172
139	IHT000012	0.1613	0.1241
140	IHT000013	0.2035	0.2184
141	IHT000014	0.1167	0.0906
142	IHT000015	0.1698	0.1772
143	IHT000016	0.0244	0.0273
144	IHT000017	0.1861	0.1733
145	IHT000018	0.0522	37.1530
146	IHT000019	0.0558	0.0515
147	IHT000020	0.1029	0.0960
148	IHT000021	0.0892	4.9317
149	IHT000022	0.1451	0.1554
150	IHT000023	0.0109	0.0102
151	IHT000024	0.0527	0.0774
152	IHT000025	0.0327	0.0314
153	IHT000026	0.0004	0.0004
154	IHT000027	0.1230	0.1356
155	IHT000028	0.0676	0.0740

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dif

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0023	0.0021
157	IHT000030	0.0267	0.0243
158	IHT000031	0.0258	0.0240
159	IHT000032	0.0731	0.0673
160	IHT000033	0.0561	14.0355
161	IHT000034	0.1978	0.2078
162	IHT000035	0.1064	0.0850
163	IHT000036	0.1560	0.1663

Velocity 1 = 19.7211 (ft/sec) (+/- 3.4954 %)
 Velocity 2 = 13.3712 (ft/sec) (+/- 3.4861 %)
 Pressure drop = 8.6998 (psi)
 Tsat in = 268.2324 (deg F) Tsat out = 255.1224 (deg F)
 Phi inner = 99.5695 (kBtu/hr-ft2) (+/- 1.5724 %)
 Phi outer = 100.0960 (kBtu/hr-ft2) (+/- 1.5528 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8061	75.4434	75.0950	1.5920e-01	1.9000e+00
1	TRF000002	75.3642	75.7869	75.5163	1.1331e-01	1.9000e+00
2	TFM000001	86.1467	86.8803	86.5491	1.8980e-01	1.9002e+00
3	TIN000001	86.2063	86.7323	86.4588	1.3426e-01	1.9002e+00
4	TRV000001	86.0506	86.8876	86.5109	1.9834e-01	1.9002e+00
5	TSR000001	110.0952	110.9172	110.6048	1.9879e-01	1.9011e+00
6	TAO020136	159.8807	160.5763	160.2108	2.0120e-01	1.9055e+00
7	TAO050136	122.2463	122.7557	122.4304	1.3640e-01	1.9019e+00
8	TAO070136	128.8191	129.7354	129.1942	1.9886e-01	1.9024e+00
9	TAO080136	131.1721	131.9800	131.5361	1.5669e-01	1.9025e+00
10	TAO090136	130.9681	131.6767	131.3287	1.7950e-01	1.9025e+00
11	TAO100136	132.2719	132.8793	132.5152	1.3563e-01	1.9026e+00
12	TAO105136	132.3607	133.2718	132.7412	2.1507e-01	1.9026e+00
13	EMPTY	40.9819	41.6693	41.2891	1.3583e-01	1.9011e+00
14	TAO115136	135.2754	135.9842	135.6317	1.7390e-01	1.9029e+00
15	EMPTY	37.3074	37.5374	37.5098	7.5526e-02	1.9009e+00
16	TAO125136	130.8928	131.5003	131.1604	1.3986e-01	1.9025e+00
17	TAO130136	123.8634	124.5713	124.1586	1.4588e-01	1.9020e+00
18	EMPTY	41.2111	41.6693	41.4403	6.5458e-02	1.9012e+00
19	TAO130048	128.3259	128.8336	128.5776	1.2998e-01	1.9023e+00
20	TAO120224	129.4984	130.3096	129.9930	1.6084e-01	1.9024e+00
21	EMPTY	38.9168	39.1464	39.1097	8.5059e-02	1.9010e+00
22	TAO120312	135.0158	135.7232	135.3875	1.5201e-01	1.9029e+00
23	TAO130312	128.9342	129.5430	129.2912	1.5492e-01	1.9024e+00
24	EMPTY	38.9168	39.6057	39.2705	1.7488e-01	1.9010e+00
25	TRT070000	117.4958	118.1141	117.7519	1.7912e-01	1.9015e+00
26	TRT100000	128.7043	129.4137	129.0652	2.0789e-01	1.9023e+00
27	TRT120000	132.2589	133.0686	132.6071	1.8861e-01	1.9026e+00
28	TRT125000	133.9420	134.6475	134.2805	1.6225e-01	1.9028e+00
29	EMPTY	39.6057	40.0646	39.8627	8.8451e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6745	2.1378e-01	1.9011e+00
31	TAF050136	96.9373	97.6642	97.3156	1.5384e-01	1.9005e+00
32	TAF070136	101.3592	102.3883	101.8535	2.3459e-01	1.9007e+00
33	TAF080136	102.8778	103.7008	103.2893	1.7160e-01	1.9007e+00
34	TAF090136	103.8719	105.1119	104.4837	2.6554e-01	1.9008e+00
35	TAF100136	105.8672	106.4876	106.1114	1.3503e-01	1.9009e+00
36	TAF105136	106.5996	107.8298	107.2846	2.7049e-01	1.9009e+00
37	TAF110136	107.6497	108.2673	108.0031	1.5166e-01	1.9010e+00
38	TAF115136	109.0338	109.9597	109.5273	1.8810e-01	1.9011e+00
39	TAF120136	109.9460	110.5633	110.2096	1.3955e-01	1.9011e+00
40	TAF125136	110.9327	111.6500	111.2318	1.4773e-01	1.9011e+00
41	TAF130136	111.6388	112.1536	111.8982	1.3343e-01	1.9012e+00
42	TAF120048	113.4330	114.1563	113.8012	1.6701e-01	1.9013e+00
43	TAF130048	114.1242	114.7402	114.3298	1.2623e-01	1.9013e+00
44	TAF120224	111.2077	112.2357	111.5494	2.2888e-01	1.9012e+00
45	TAF130224	111.8053	112.4240	112.1931	1.1320e-01	1.9012e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9422	2.2551e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1970	1.1636e-01	1.9010e+00
48	TAI130048	132.9530	134.0653	133.5157	2.9539e-01	1.9027e+00
49	EMPTY	37.9974	38.6870	38.2687	1.5184e-01	1.9010e+00
50	TAI130224	129.4913	130.7106	130.1904	2.7291e-01	1.9024e+00
51	EMPTY	40.2940	40.7527	40.4913	1.5374e-01	1.9011e+00
52	TRR130000	82.4501	86.2254	84.6746	8.1185e-01	1.9001e+00
53	TSI000001	50.5072	51.1552	50.8308	1.7714e-01	1.9002e+00
54	TSI000002	73.5116	76.2599	75.1823	6.2419e-01	1.9000e+00
55	TSO000001	49.4444	50.2047	49.8616	1.8927e-01	1.9003e+00
56	TSO000002	55.4909	56.2449	55.7754	1.8043e-01	1.9001e+00
57	TAF020136	89.6952	90.6416	90.1369	2.1352e-01	1.9003e+00
58	TAF120312	112.0283	113.2617	112.6370	2.6981e-01	1.9012e+00
59	TAF130312	113.6479	114.4684	114.0787	1.7954e-01	1.9013e+00
60	EMPTY	1.1035	1.1084	1.1067	2.3365e-03	0.0000e+00
61	EMPTY	1.1133	1.1182	1.1175	1.7115e-03	0.0000e+00
62	EMPTY	1.1230	1.1279	1.1261	2.3941e-03	0.0000e+00
63	EMPTY	1.1328	1.1426	1.1377	1.3951e-03	0.0000e+00
64	EMPTY	0.6250	0.6299	0.6297	9.6655e-04	0.0000e+00
65	EMPTY	0.6445	0.6494	0.6492	9.6655e-04	0.0000e+00
66	EMPTY	0.6592	0.6641	0.6636	1.4797e-03	0.0000e+00
67	EMPTY	0.6787	0.6836	0.6790	1.1714e-03	0.0000e+00
68	EMPTY	0.6885	0.6934	0.6932	9.6655e-04	0.0000e+00
69	EMPTY	0.7080	0.7129	0.7081	6.9053e-04	0.0000e+00
70	EMPTY	0.7227	0.7227	0.7227	0.0000e+00	0.0000e+00
71	EMPTY	0.7422	0.7471	0.7460	2.0432e-03	0.0000e+00
72	EMPTY	0.7568	0.7617	0.7569	6.9053e-04	0.0000e+00
73	EMPTY	0.7764	0.7764	0.7764	0.0000e+00	0.0000e+00
74	EMPTY	0.7861	0.7959	0.7910	9.8648e-04	0.0000e+00
75	EMPTY	0.8008	0.8105	0.8057	9.8648e-04	0.0000e+00
76	EMPTY	0.8154	0.8301	0.8204	1.5566e-03	0.0000e+00
77	EMPTY	0.8350	0.8398	0.8386	2.1635e-03	0.0000e+00
78	EMPTY	0.8594	0.8594	0.8594	0.0000e+00	0.0000e+00
79	EMPTY	0.8789	0.8838	0.8793	1.3381e-03	0.0000e+00
80	PAN020136	29.5681	31.7806	30.4897	5.1557e-01	8.7333e-01
81	PAN050136	54.7664	56.1396	55.5079	3.4191e-01	1.6857e+00
82	PAN070136	40.9824	41.8979	41.4219	2.3149e-01	8.7614e-01
83	PAN080136	17.2714	18.2632	17.7047	2.4827e-01	8.7113e-01
84	PAN090136	17.6648	18.1989	17.9135	1.4111e-01	8.7115e-01
85	PAN100136	17.2732	18.1124	17.7371	1.8357e-01	8.7113e-01
86	PAN105136	9.3611	9.8951	9.6022	1.4571e-01	8.7033e-01
87	PAN110136	9.5760	9.9575	9.7668	9.7789e-02	8.7034e-01
88	PAN115136	13.4220	14.4138	13.9545	2.5397e-01	8.7070e-01
89	PAN120136	6.9049	7.6678	7.2543	1.8373e-01	8.7019e-01
90	PAN125136	9.9668	10.5771	10.1606	1.3098e-01	8.7037e-01
91	PAN130136	8.0273	8.4088	8.2043	8.9133e-02	8.7024e-01
92	PAN120048	18.2456	19.1611	18.7095	2.1181e-01	8.7126e-01
93	PAN130048	17.5912	18.5067	17.9376	1.6970e-01	8.7115e-01
94	PAN120224	21.6366	22.3232	21.9402	1.8204e-01	8.7173e-01
95	PAN130224	17.9552	18.6418	18.2283	1.4549e-01	8.7119e-01
96	PAN120312	18.9994	19.6097	19.3046	1.5643e-01	8.7134e-01
97	PAN130312	17.3541	17.9645	17.7188	1.4483e-01	8.7113e-01
98	PAB000136	40.3938	40.7601	40.5833	8.5269e-02	5.8881e-01
99	PAB100136	34.2477	34.4308	34.3420	5.0154e-02	5.8632e-01
100	PAB125136	32.3890	32.5721	32.5053	4.4555e-02	5.8567e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1028	40.7132	40.3909	1.6683e-01	7.5677e-01
102	PRV000001	20.3378	20.4599	20.3475	3.3453e-02	7.5172e-01
103	PSR000001	30.2726	30.3946	30.3092	5.6508e-02	7.5382e-01
104	PFM000001	60.2221	61.3207	60.6597	2.7076e-01	5.2249e-01
105	PAN000136	238.3042	244.7129	240.8585	1.4567e+00	4.9567e+00
106	PFM000002	27.7600	27.7600	27.7600	1.5414e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0070	2.4484e-03	0.0000e+00
108	EMPTY	-7.6660	-6.1719	-7.0343	3.0523e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0005	1.4797e-03	0.0000e+00
112	VPW000001	100.7859	101.1766	100.9656	1.1732e-01	1.0115e+00
113	VPW000002	118.7453	119.1359	118.8468	1.1995e-01	1.0792e+00
114	VPW000003	145.6631	146.2491	145.9990	1.2503e-01	1.1931e+00
115	VPW000004	104.4569	104.8475	104.5858	1.0145e-01	1.0246e+00
116	VPW000005	138.7472	139.1378	139.0088	1.2853e-01	1.1626e+00
117	VPW000006	146.7150	147.1056	146.9298	1.0625e-01	1.1972e+00
118	IPW000001	547.8089	553.6660	550.4250	1.8336e+00	9.1934e+00
119	IPW000002	1289.7892	1299.5455	1296.8918	1.7962e+00	1.3061e+01
120	IPW000003	1319.3044	1327.1045	1323.8281	1.9074e+00	1.3228e+01
121	IPW000004	383.3891	385.3422	384.2482	4.9873e-01	3.6352e+00
122	IPW000005	254.0808	255.0573	254.5301	2.5797e-01	2.8361e+00
123	IPW000006	263.6719	265.1367	264.3945	3.7226e-01	2.8918e+00
124	EMPTY	-0.0293	-0.0098	-0.0202	3.9471e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	3.1195e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0167	3.2851e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0172	3.4513e-03	0.0000e+00
128	IHT000001	129.8288	132.1725	130.7467	5.2386e-01	4.3034e+00
129	IHT000002	133.3491	135.6928	134.4077	4.8823e-01	4.3147e+00
130	IHT000003	133.1491	135.2975	134.0983	5.0688e-01	4.3137e+00
131	IHT000004	131.4806	133.8244	132.4572	4.9126e-01	4.3087e+00
132	IHT000005	130.0334	132.3772	130.9826	4.6690e-01	4.3041e+00
133	IHT000006	125.0025	127.1509	125.9907	4.5577e-01	4.2892e+00
134	IHT000007	131.7959	133.9444	132.8584	4.9152e-01	4.3099e+00
135	IHT000008	130.6241	132.5772	131.4834	4.5335e-01	4.3057e+00
136	IHT000009	130.9347	133.2784	131.9502	5.0992e-01	4.3071e+00
137	IHT000010	132.9278	134.8809	133.8731	4.9968e-01	4.3130e+00
138	IHT000011	131.0547	133.2031	132.2461	5.1183e-01	4.3080e+00
139	IHT000012	129.0641	131.0172	129.9546	4.3968e-01	4.3010e+00
140	IHT000013	92.3688	94.1266	93.2007	4.2280e-01	4.2046e+00
141	IHT000014	128.0050	129.5675	128.8760	4.5542e-01	4.2978e+00
142	IHT000015	95.1125	96.8703	95.9055	4.2206e-01	4.2107e+00
143	IHT000016	88.6319	90.3897	89.4951	4.6870e-01	4.1965e+00
144	IHT000017	105.8594	108.3984	107.0508	5.6669e-01	4.2375e+00
145	IHT000018	-0.8166	0.9413	0.0702	3.9697e-01	4.1000e+00
146	IHT000019	107.3419	109.2950	108.1856	4.2762e-01	4.2403e+00
147	IHT000020	106.3419	108.0997	107.0059	4.7021e-01	4.2373e+00
148	IHT000021	0.9103	2.4728	1.4767	4.2909e-01	4.1000e+00
149	IHT000022	92.3028	94.4512	93.2325	5.2432e-01	4.2047e+00
150	IHT000023	105.5488	107.6972	106.5019	4.9543e-01	4.2361e+00
151	IHT000024	67.1069	69.2553	67.9468	4.8045e-01	4.1559e+00
152	IHT000025	103.1556	105.3041	104.2142	4.8823e-01	4.2304e+00
153	IHT000026	105.1181	107.4619	106.4033	4.9299e-01	4.2358e+00
154	IHT000027	88.9472	91.6816	90.6113	5.2680e-01	4.1989e+00
155	IHT000028	90.3850	92.7288	91.3498	5.5018e-01	4.2005e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2500	108.5938	107.1797	5.4040e-01	4.2378e+00
157	IHT000030	108.9044	111.0528	109.8301	5.0503e-01	4.2446e+00
158	IHT000031	106.7159	108.8644	107.6104	4.7693e-01	4.2389e+00
159	IHT000032	107.8925	109.8456	108.6425	4.6915e-01	4.2415e+00
160	IHT000033	-1.0013	0.7566	-0.2708	4.0971e-01	4.1000e+00
161	IHT000034	94.4912	96.2491	95.3193	4.5431e-01	4.2093e+00
162	IHT000035	124.4613	126.4144	125.2582	4.7325e-01	4.2871e+00
163	IHT000036	93.1641	94.9219	93.8867	4.3629e-01	4.2061e+00

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sum2

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Velocity 1 = 19.7141 (ft/sec) (+/- 3.4954 %)
 Velocity 2 = 13.3712 (ft/sec) (+/- 3.4861 %)
 Pressure drop = 8.6825 (psi)
 Tsat in = 268.0881 (deg F) Tsat out = 255.0072 (deg F)
 Phi inner = 100.6721 (kBtu/hr-ft2) (+/- 1.5697 %)
 Phi outer = 100.2760 (kBtu/hr-ft2) (+/- 1.5528 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.0186	75.4434	75.1963	1.6985e-01	1.9000e+00
1	TRF000002	75.3642	75.7869	75.6186	1.0550e-01	1.9000e+00
2	TFM000001	86.1467	87.0902	86.5768	2.3656e-01	1.9002e+00
3	TIN000001	86.1012	86.8370	86.4725	1.7573e-01	1.9002e+00
4	TRV000001	85.9463	86.8886	86.5208	2.0512e-01	1.9002e+00
5	TSR000001	109.8912	111.4301	110.6638	3.7267e-01	1.9011e+00
6	TAO020136	160.5763	161.3709	160.9999	2.3006e-01	1.9056e+00
7	TAO050136	126.3008	127.0108	126.6794	1.7167e-01	1.9022e+00
8	TAO070136	123.0969	123.8137	123.5230	2.0390e-01	1.9019e+00
9	TAO080136	127.9477	128.5550	128.2266	1.4974e-01	1.9023e+00
10	TAO090136	128.9454	130.0586	129.5077	2.0782e-01	1.9024e+00
11	TAO100136	131.7666	132.4753	132.1116	1.6263e-01	1.9026e+00
12	TAO105136	132.0568	132.9681	132.4929	2.0060e-01	1.9026e+00
13	EMPTY	41.2111	41.4403	41.3140	1.1515e-01	1.9011e+00
14	TAO115136	135.1735	136.0848	135.5560	2.2953e-01	1.9029e+00
15	EMPTY	37.3074	37.5374	37.5093	7.6203e-02	1.9009e+00
16	TAO125136	131.0956	131.6019	131.3002	1.4089e-01	1.9025e+00
17	TAO130136	124.1663	124.6729	124.2971	1.2776e-01	1.9020e+00
18	EMPTY	41.2111	41.6693	41.4356	8.7364e-02	1.9012e+00
19	TAO130048	127.8206	128.5304	128.1661	1.4034e-01	1.9023e+00
20	TAO120224	129.7010	130.4109	130.0301	1.6108e-01	1.9024e+00
21	EMPTY	38.9168	39.1464	39.1183	7.6072e-02	1.9010e+00
22	TAO120312	134.8137	135.5212	135.1560	1.5552e-01	1.9029e+00
23	TAO130312	128.8336	129.4421	129.1481	1.3132e-01	1.9024e+00
24	EMPTY	38.9168	39.6057	39.2074	1.9199e-01	1.9010e+00
25	TRT070000	116.3618	117.2884	116.7886	1.8550e-01	1.9015e+00
26	TRT100000	127.9966	128.9087	128.3834	2.0239e-01	1.9023e+00
27	TRT120000	131.6526	132.4623	132.1338	1.7351e-01	1.9026e+00
28	TRT125000	133.4410	134.1463	133.8374	1.5449e-01	1.9027e+00
29	EMPTY	39.6057	40.0646	39.8352	1.0475e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.7087	1.9912e-01	1.9011e+00
31	TAF050136	97.1456	97.8723	97.4527	1.8223e-01	1.9005e+00
32	TAF070136	101.1533	102.0823	101.5093	2.0323e-01	1.9007e+00
33	TAF080136	102.5704	103.2922	102.9969	1.6576e-01	1.9007e+00
34	TAF090136	103.9753	104.9058	104.3615	2.5389e-01	1.9008e+00
35	TAF100136	105.6603	106.4876	106.0467	1.8013e-01	1.9009e+00
36	TAF105136	106.7031	107.8317	107.2076	2.4930e-01	1.9009e+00
37	TAF110136	107.5467	108.1649	107.9081	1.7345e-01	1.9010e+00
38	TAF115136	109.1367	109.8571	109.4874	1.9689e-01	1.9011e+00
39	TAF120136	110.0493	110.4614	110.2553	1.1133e-01	1.9011e+00
40	TAF125136	111.0354	111.5489	111.2637	1.5276e-01	1.9011e+00
41	TAF130136	111.7420	112.2562	111.9414	1.6846e-01	1.9012e+00
42	TAF120048	112.8123	113.8458	113.3079	2.3764e-01	1.9013e+00
43	TAF130048	113.6112	114.2275	113.9004	1.5074e-01	1.9013e+00
44	TAF120224	111.2081	111.9280	111.4621	1.6937e-01	1.9012e+00
45	TAF130224	111.9085	112.5267	112.2238	1.3382e-01	1.9012e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9082	1.8068e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1511	8.7574e-02	1.9010e+00
48	TAI130048	132.6500	133.7627	133.2879	2.5805e-01	1.9027e+00
49	EMPTY	37.7675	38.4572	38.2508	1.7711e-01	1.9010e+00
50	TAI130224	129.6943	130.9138	130.2875	2.5175e-01	1.9024e+00
51	EMPTY	40.0646	40.7527	40.3549	1.5369e-01	1.9011e+00
52	TRR130000	84.9682	87.8987	86.2958	7.4674e-01	1.9002e+00
53	TSI000001	50.5072	51.2630	50.8531	1.5742e-01	1.9002e+00
54	TSI000002	74.6753	76.7883	75.7968	4.4870e-01	1.9000e+00
55	TSO000001	49.4444	50.4210	49.9206	2.1115e-01	1.9003e+00
56	TSO000002	55.1679	56.1374	55.7306	2.2126e-01	1.9001e+00
57	TAF020136	89.5889	90.5353	90.1152	2.1034e-01	1.9003e+00
58	TAF120312	111.9260	112.9538	112.4713	2.7533e-01	1.9012e+00
59	TAF130312	113.5453	114.2638	113.9454	1.6797e-01	1.9013e+00
60	EMPTY	1.0986	1.1133	1.1002	2.8866e-03	0.0000e+00
61	EMPTY	1.1084	1.1133	1.1103	2.4037e-03	0.0000e+00
62	EMPTY	1.1182	1.1230	1.1190	1.8234e-03	0.0000e+00
63	EMPTY	1.1279	1.1377	1.1328	1.4095e-03	0.0000e+00
64	EMPTY	0.6250	0.6299	0.6270	2.4247e-03	0.0000e+00
65	EMPTY	0.6445	0.6494	0.6462	2.3483e-03	0.0000e+00
66	EMPTY	0.6592	0.6641	0.6604	2.1215e-03	0.0000e+00
67	EMPTY	0.6738	0.6787	0.6786	6.9754e-04	0.0000e+00
68	EMPTY	0.6885	0.6934	0.6893	1.8234e-03	0.0000e+00
69	EMPTY	0.7031	0.7129	0.7075	1.7954e-03	0.0000e+00
70	EMPTY	0.7178	0.7227	0.7215	2.1215e-03	0.0000e+00
71	EMPTY	0.7422	0.7471	0.7423	6.9754e-04	0.0000e+00
72	EMPTY	0.7520	0.7568	0.7563	1.4934e-03	0.0000e+00
73	EMPTY	0.7715	0.7764	0.7732	2.3483e-03	0.0000e+00
74	EMPTY	0.7861	0.7910	0.7870	1.9103e-03	0.0000e+00
75	EMPTY	0.8008	0.8105	0.8047	2.2241e-03	0.0000e+00
76	EMPTY	0.8154	0.8252	0.8167	2.3953e-03	0.0000e+00
77	EMPTY	0.8350	0.8398	0.8351	6.9754e-04	0.0000e+00
78	EMPTY	0.8545	0.8594	0.8566	2.4414e-03	0.0000e+00
79	EMPTY	0.8740	0.8789	0.8786	1.1827e-03	0.0000e+00
80	PAN020136	29.2629	32.1621	30.4790	5.4915e-01	8.7333e-01
81	PAN050136	54.4612	55.9871	55.0342	2.8973e-01	1.6856e+00
82	PAN070136	41.6691	42.8898	42.0708	2.3297e-01	8.7633e-01
83	PAN080136	16.8136	17.7291	17.2620	2.3548e-01	8.7107e-01
84	PAN090136	17.7411	18.3514	18.0105	1.3039e-01	8.7116e-01
85	PAN100136	16.8154	17.8835	17.2872	2.4608e-01	8.7107e-01
86	PAN105136	9.2085	10.0477	9.6180	1.6967e-01	8.7033e-01
87	PAN110136	9.6523	9.9575	9.7847	9.0508e-02	8.7034e-01
88	PAN115136	13.1931	14.2612	13.8408	2.5925e-01	8.7069e-01
89	PAN120136	6.8286	7.8967	7.3315	2.2724e-01	8.7019e-01
90	PAN125136	9.7379	10.5009	10.0976	1.6259e-01	8.7037e-01
91	PAN130136	7.8748	8.4088	8.1317	1.2032e-01	8.7024e-01
92	PAN120048	18.0930	19.1611	18.7267	2.1194e-01	8.7126e-01
93	PAN130048	17.5149	18.2778	17.8325	1.6726e-01	8.7114e-01
94	PAN120224	21.4840	22.4758	21.8530	1.8318e-01	8.7171e-01
95	PAN130224	18.0315	18.6418	18.1981	1.2716e-01	8.7119e-01
96	PAN120312	18.9231	19.6097	19.2843	1.5241e-01	8.7133e-01
97	PAN130312	17.3541	17.9645	17.6359	1.4120e-01	8.7112e-01
98	PAB000136	40.3023	40.6685	40.4854	8.7655e-02	5.8876e-01
99	PAB100136	34.1561	34.3850	34.2673	4.7646e-02	5.8629e-01
100	PAB125136	32.3432	32.5263	32.4413	4.1788e-02	5.8564e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8587	40.8353	40.2398	1.9562e-01	7.5672e-01
102	PRV000001	19.9716	20.0936	20.0862	2.9569e-02	7.5168e-01
103	PSR000001	30.1505	30.2726	30.2601	3.7334e-02	7.5381e-01
104	PFM000001	59.9474	61.2291	60.6163	2.9264e-01	5.2246e-01
105	PAN000136	237.3887	245.1707	240.3782	1.6508e+00	4.9566e+00
106	PFM000002	27.7600	27.7600	27.7600	1.3490e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0082	2.3135e-03	0.0000e+00
108	EMPTY	-7.6563	-6.2793	-6.9977	3.2186e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0052	1.1827e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0007	1.7263e-03	0.0000e+00
112	VPW000001	100.7859	101.1766	100.9892	7.9328e-02	1.0116e+00
113	VPW000002	118.5500	119.1359	118.8370	1.1348e-01	1.0791e+00
114	VPW000003	146.0538	146.4444	146.1972	1.1810e-01	1.1940e+00
115	VPW000004	104.4569	104.8475	104.7000	1.2308e-01	1.0251e+00
116	VPW000005	138.9425	139.7238	139.1059	1.4009e-01	1.1631e+00
117	VPW000006	146.7150	147.1056	146.9262	9.6318e-02	1.1972e+00
118	IPW000001	536.0948	541.9518	539.8003	1.7022e+00	9.1540e+00
119	IPW000002	1305.3993	1315.1556	1312.2488	2.7630e+00	1.3156e+01
120	IPW000003	1334.9044	1342.7045	1338.6854	1.7536e+00	1.3321e+01
121	IPW000004	380.4594	381.9242	381.0969	3.4819e-01	3.6144e+00
122	IPW000005	254.0808	255.5455	254.6887	4.5157e-01	2.8370e+00
123	IPW000006	264.6484	266.1133	265.3260	4.4369e-01	2.8972e+00
124	EMPTY	-0.0293	-0.0098	-0.0202	4.7800e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0128	3.1228e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0164	3.6883e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0154	3.0472e-03	0.0000e+00
128	IHT000001	130.0241	131.7819	130.7734	4.3554e-01	4.3035e+00
129	IHT000002	133.7397	135.4975	134.4771	4.5851e-01	4.3149e+00
130	IHT000003	133.3444	135.2975	134.2850	4.4694e-01	4.3143e+00
131	IHT000004	131.6759	133.4337	132.6166	4.9261e-01	4.3091e+00
132	IHT000005	130.4241	132.1819	131.1056	4.9815e-01	4.3045e+00
133	IHT000006	125.3931	127.1509	126.1345	4.7672e-01	4.2896e+00
134	IHT000007	132.1866	134.1397	132.9598	5.0265e-01	4.3102e+00
135	IHT000008	131.0147	132.5772	131.5847	4.5777e-01	4.3060e+00
136	IHT000009	131.3253	133.0831	131.9869	4.6462e-01	4.3072e+00
137	IHT000010	132.7325	134.8809	133.8764	4.5457e-01	4.3130e+00
138	IHT000011	131.0547	133.3984	132.2146	4.4824e-01	4.3079e+00
139	IHT000012	128.6734	131.0172	129.9210	4.7645e-01	4.3009e+00
140	IHT000013	91.9781	94.1266	93.2257	4.8142e-01	4.2047e+00
141	IHT000014	127.6144	129.7628	128.8898	4.8682e-01	4.2978e+00
142	IHT000015	94.9172	97.0656	95.9575	4.5698e-01	4.2108e+00
143	IHT000016	88.2412	90.5850	89.3932	4.8868e-01	4.1963e+00
144	IHT000017	103.9063	108.0078	106.0706	9.7724e-01	4.2350e+00
145	IHT000018	-1.2072	0.7459	-0.1748	3.4756e-01	4.1000e+00
146	IHT000019	107.1466	109.2950	108.1629	4.6147e-01	4.2403e+00
147	IHT000020	105.7559	107.9044	106.8959	4.9531e-01	4.2371e+00
148	IHT000021	0.5197	2.6681	1.4763	4.4795e-01	4.1000e+00
149	IHT000022	92.1075	94.2559	93.0760	4.5624e-01	4.2043e+00
150	IHT000023	105.3534	107.5019	106.4456	4.8977e-01	4.2359e+00
151	IHT000024	66.9116	68.8647	67.8324	4.3308e-01	4.1557e+00
152	IHT000025	103.3509	105.4994	104.1960	4.6389e-01	4.2303e+00
153	IHT000026	105.5088	107.6572	106.3419	5.1947e-01	4.2357e+00
154	IHT000027	89.7284	92.0722	90.5177	5.1360e-01	4.1987e+00
155	IHT000028	90.1897	92.1428	91.1184	5.0197e-01	4.2000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0547	108.0078	106.9754	4.8337e-01	4.2373e+00
157	IHT000030	108.7091	111.0528	109.7215	5.5196e-01	4.2443e+00
158	IHT000031	106.5206	108.8644	107.5091	5.1738e-01	4.2386e+00
159	IHT000032	107.5019	109.8456	108.4865	5.0580e-01	4.2411e+00
160	IHT000033	-1.1966	0.9519	-0.3396	4.6973e-01	4.1000e+00
161	IHT000034	94.4912	96.6397	95.3362	4.9857e-01	4.2094e+00
162	IHT000035	124.4613	126.4144	125.2704	4.9635e-01	4.2871e+00
163	IHT000036	93.1641	95.1172	93.9573	4.4646e-01	4.2063e+00

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Velocity 1 = 0.007000 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.017300 (psi)

Tsat in = 0.144287 (deg F) Tsat out = 0.115204 (deg F)

Phi inner = 1.102592 (kBtu/hr-ft2) Phi outer = 0.180000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1013	0.1349
1	TRF000002	0.1023	0.1355
2	TFM000001	0.0277	0.0320
3	TIN000001	0.0137	0.0158
4	TRV000001	0.0099	0.0114
5	TSR000001	0.0590	0.0533
6	TAO020136	0.7891	0.4925
7	TAO050136	4.2490	3.4705
8	TAO070136	5.6712	4.3897
9	TAO080136	3.3095	2.5160
10	TAO090136	1.8210	1.3866
11	TAO100136	0.4036	0.3046
12	TAO105136	0.2483	0.1870
13	EMPTY	0.0249	0.0603
14	TAO115136	0.0757	0.0558
15	EMPTY	0.0005	0.0013
16	TAO125136	0.1398	0.1066
17	TAO130136	0.1385	0.1115
18	EMPTY	0.0047	0.0113
19	TAO130048	0.4115	0.3200
20	TAO120224	0.0371	0.0285
21	EMPTY	0.0086	0.0220
22	TAO120312	0.2315	0.1710
23	TAO130312	0.1431	0.1107
24	EMPTY	0.0631	0.1607
25	TRT070000	0.9633	0.8181
26	TRT100000	0.6818	0.5283
27	TRT120000	0.4733	0.3569
28	TRT125000	0.4431	0.3300
29	EMPTY	0.0275	0.0690
30	EMPTY	0.0342	0.0862
31	TAF050136	0.1371	0.1409
32	TAF070136	0.3442	0.3379
33	TAF080136	0.2924	0.2831
34	TAF090136	0.1222	0.1170
35	TAF100136	0.0647	0.0610
36	TAF105136	0.0770	0.0718
37	TAF110136	0.0950	0.0880
38	TAF115136	0.0399	0.0364
39	TAF120136	0.0457	0.0415
40	TAF125136	0.0319	0.0287
41	TAF130136	0.0432	0.0386
42	TAF120048	0.4933	0.4335
43	TAF130048	0.4294	0.3756
44	TAF120224	0.0873	0.0783
45	TAF130224	0.0307	0.0274

#	Name	Abs Diff	%Diff
46	EMPTY	0.0340	0.0896
47	EMPTY	0.0459	0.1171
48	TAI130048	0.2278	0.1706
49	EMPTY	0.0179	0.0468
50	TAI130224	0.0971	0.0746
51	EMPTY	0.1364	0.3369
52	TRR130000	1.6212	1.9146
53	TSI000001	0.0223	0.0439
54	TSI000002	0.6145	0.8173
55	TSO000001	0.0590	0.1183
56	TSO000002	0.0448	0.0803
57	TAF020136	0.0217	0.0241
58	TAF120312	0.1657	0.1471
59	TAF130312	0.1333	0.1168
60	EMPTY	0.0065	0.5873
61	EMPTY	0.0072	0.6443
62	EMPTY	0.0071	0.6305
63	EMPTY	0.0049	0.4307
64	EMPTY	0.0027	0.4288
65	EMPTY	0.0030	0.4621
66	EMPTY	0.0032	0.4822
67	EMPTY	0.0004	0.0589
68	EMPTY	0.0039	0.5626
69	EMPTY	0.0006	0.0847
70	EMPTY	0.0012	0.1660
71	EMPTY	0.0037	0.4960
72	EMPTY	0.0006	0.0793
73	EMPTY	0.0032	0.4122
74	EMPTY	0.0040	0.5057
75	EMPTY	0.0010	0.1241
76	EMPTY	0.0037	0.4510
77	EMPTY	0.0035	0.4174
78	EMPTY	0.0028	0.3258
79	EMPTY	0.0007	0.0796
80	PAN020136	0.0107	0.0351
81	PAN050136	0.4737	0.8534
82	PAN070136	0.6489	1.5666
83	PAN080136	0.4427	2.5005
84	PAN090136	0.0970	0.5415
85	PAN100136	0.4499	2.5365
86	PAN105136	0.0158	0.1646
87	PAN110136	0.0179	0.1833
88	PAN115136	0.1137	0.8148
89	PAN120136	0.0772	1.0642
90	PAN125136	0.0630	0.6200
91	PAN130136	0.0726	0.8849
92	PAN120048	0.0172	0.0919
93	PAN130048	0.1051	0.5859
94	PAN120224	0.0872	0.3974
95	PAN130224	0.0302	0.1657
96	PAN120312	0.0203	0.1052
97	PAN130312	0.0829	0.4679
98	PAB000136	0.0979	0.2412
99	PAB100136	0.0747	0.2175
100	PAB125136	0.0640	0.1969

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1511	0.3741
102	PRV000001	0.2613	1.2842
103	PSR000001	0.0491	0.1620
104	PFM000001	0.0434	0.0715
105	PAN000136	0.4803	0.1994
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0012	17.1429
108	EMPTY	0.0366	0.5203
109	EMPTY	0.0003	6.1224
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	40.0000
112	VPW000001	0.0236	0.0234
113	VPW000002	0.0098	0.0082
114	VPW000003	0.1982	0.1358
115	VPW000004	0.1142	0.1092
116	VPW000005	0.0971	0.0698
117	VPW000006	0.0036	0.0025
118	IPW000001	10.6247	1.9303
119	IPW000002	15.3569	1.1841
120	IPW000003	14.8573	1.1223
121	IPW000004	3.1513	0.8201
122	IPW000005	0.1586	0.0623
123	IPW000006	0.9315	0.3523
124	EMPTY	0.0000	0.0000
125	EMPTY	0.0018	12.3288
126	EMPTY	0.0003	1.7964
127	EMPTY	0.0018	10.4651
128	IHT000001	0.0267	0.0204
129	IHT000002	0.0694	0.0516
130	IHT000003	0.1867	0.1392
131	IHT000004	0.1594	0.1203
132	IHT000005	0.1230	0.0939
133	IHT000006	0.1438	0.1141
134	IHT000007	0.1014	0.0763
135	IHT000008	0.1013	0.0770
136	IHT000009	0.0367	0.0278
137	IHT000010	0.0033	0.0025
138	IHT000011	0.0315	0.0238
139	IHT000012	0.0336	0.0259
140	IHT000013	0.0250	0.0268
141	IHT000014	0.0138	0.0107
142	IHT000015	0.0520	0.0542
143	IHT000016	0.1019	0.1139
144	IHT000017	0.9802	0.9156
145	IHT000018	0.2450	349.0028
146	IHT000019	0.0227	0.0210
147	IHT000020	0.1100	0.1028
148	IHT000021	0.0004	0.0271
149	IHT000022	0.1565	0.1679
150	IHT000023	0.0563	0.0529
151	IHT000024	0.1144	0.1684
152	IHT000025	0.0182	0.0175
153	IHT000026	0.0614	0.0577
154	IHT000027	0.0936	0.1033
155	IHT000028	0.2314	0.2533

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2043	0.1906
157	IHT000030	0.1086	0.0989
158	IHT000031	0.1013	0.0941
159	IHT000032	0.1560	0.1436
160	IHT000033	0.0688	25.4062
161	IHT000034	0.0169	0.0177
162	IHT000035	0.0122	0.0097
163	IHT000036	0.0706	0.0752

Velocity 1 = 14.7881 (ft/sec) (+/- 3.5481 %)
Velocity 2 = 13.3714 (ft/sec) (+/- 3.4861 %)
Pressure drop = 2.7527 (psi)
Tsats in = 268.1138 (deg F) Tsats out = 264.6207 (deg F)
Phi inner = 99.0369 (kBtu/hr-ft2) (+/- 1.5738 %)
Phi outer = 100.0431 (kBtu/hr-ft2) (+/- 1.5522 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.0186	75.6557	75.3754	1.7397e-01	1.9000e+00
1	TRF000002	75.5756	75.9982	75.7784	1.4135e-01	1.9000e+00
2	TFM000001	86.3568	87.1949	86.7718	2.2003e-01	1.9002e+00
3	TIN000001	86.4168	87.0469	86.6856	1.4880e-01	1.9002e+00
4	TRV000001	86.4697	87.3074	86.8298	2.0395e-01	1.9002e+00
5	TSR000001	115.8242	116.5413	116.1768	1.5496e-01	1.9014e+00
6	TAO020136	163.4542	164.2464	163.8464	1.9508e-01	1.9059e+00
7	TAO050136	129.2325	130.0421	129.6573	1.8290e-01	1.9024e+00
8	TAO070136	132.4840	133.4987	133.0281	2.1963e-01	1.9027e+00
9	TAO080136	139.8050	140.6063	140.1577	1.7469e-01	1.9033e+00
10	TAO090136	143.6446	144.4466	144.0414	1.9933e-01	1.9037e+00
11	TAO100136	144.7523	145.3544	145.0455	1.6924e-01	1.9038e+00
12	TAO105136	144.0512	144.8539	144.4164	2.2368e-01	1.9037e+00
13	EMPTY	41.2111	41.4403	41.3211	1.1564e-01	1.9011e+00
14	TAO115136	146.5789	147.3815	146.9722	2.0763e-01	1.9040e+00
15	EMPTY	37.7675	37.9974	37.7813	5.5169e-02	1.9010e+00
16	TAO125136	143.0608	143.6632	143.3220	1.4614e-01	1.9036e+00
17	TAO130136	134.8622	135.4655	135.1513	1.4587e-01	1.9029e+00
18	EMPTY	41.2111	41.6693	41.4678	8.8301e-02	1.9012e+00
19	TAO130048	140.7114	141.3148	140.9813	1.4140e-01	1.9034e+00
20	TAO120224	141.1023	141.9064	141.5123	1.8260e-01	1.9034e+00
21	EMPTY	39.1464	39.1464	39.1465	1.5414e-05	1.9010e+00
22	TAO120312	148.2862	148.9866	148.6903	1.7026e-01	1.9042e+00
23	TAO130312	141.5216	142.1247	141.7831	1.7218e-01	1.9035e+00
24	EMPTY	38.9168	39.6057	39.3164	1.8445e-01	1.9010e+00
25	TRT070000	125.8177	126.7375	126.1738	1.8598e-01	1.9021e+00
26	TRT100000	140.1882	141.0919	140.7382	2.2049e-01	1.9034e+00
27	TRT120000	145.6360	146.5367	146.1165	1.8865e-01	1.9039e+00
28	TRT125000	147.3271	148.1250	147.7615	1.7979e-01	1.9041e+00
29	EMPTY	39.8352	40.0646	39.9316	1.1440e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7204	2.1873e-01	1.9011e+00
31	TAF050136	100.2505	101.0785	100.7015	2.0780e-01	1.9006e+00
32	TAF070136	105.4704	106.4998	105.9733	2.2617e-01	1.9009e+00
33	TAF080136	107.7982	108.6199	108.2537	1.9471e-01	1.9010e+00
34	TAF090136	109.4407	110.6756	110.1445	2.5745e-01	1.9011e+00
35	TAF100136	111.9553	112.8815	112.4327	2.0448e-01	1.9012e+00
36	TAF105136	113.4433	114.3624	113.8839	2.3993e-01	1.9013e+00
37	TAF110136	114.6142	115.2295	114.8732	1.5380e-01	1.9014e+00
38	TAF115136	116.3107	117.0264	116.6667	1.8861e-01	1.9015e+00
39	TAF120136	117.5019	118.0143	117.7522	1.3887e-01	1.9015e+00
40	TAF125136	118.6779	119.3913	119.0285	1.7379e-01	1.9016e+00
41	TAF130136	119.6258	120.1369	119.9608	1.3068e-01	1.9017e+00
42	TAF120048	122.1937	123.2180	122.7102	2.4490e-01	1.9019e+00
43	TAF130048	123.3284	123.9401	123.6182	1.3407e-01	1.9019e+00
44	TAF120224	118.6879	119.6083	119.0931	2.1751e-01	1.9016e+00
45	TAF130224	120.0480	120.6627	120.3103	1.4048e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.8962	1.8089e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1510	5.6634e-02	1.9010e+00
48	TAI130048	145.9353	147.1367	146.5522	2.8563e-01	1.9039e+00
49	EMPTY	37.9974	38.4572	38.2411	1.4985e-01	1.9010e+00
50	TAI130224	141.5369	142.5444	142.0569	2.7013e-01	1.9035e+00
51	EMPTY	40.0646	40.5234	40.3858	1.3902e-01	1.9011e+00
52	TRR130000	85.7020	88.7361	87.1174	6.1074e-01	1.9002e+00
53	TSI000001	50.6156	51.4792	51.0429	1.7847e-01	1.9002e+00
54	TSI000002	73.6175	77.5275	75.7916	7.3236e-01	1.9000e+00
55	TSO000001	49.4439	50.4200	49.9429	2.3914e-01	1.9003e+00
56	TSO000002	56.1370	57.1057	56.5246	2.1958e-01	1.9001e+00
57	TAF020136	91.1684	92.2179	91.5629	2.0954e-01	1.9003e+00
58	TAF120312	120.9412	122.0637	121.5005	2.5110e-01	1.9018e+00
59	TAF130312	123.2516	124.0664	123.6426	1.7986e-01	1.9019e+00
60	EMPTY	1.3232	1.3281	1.3272	1.8950e-03	0.0000e+00
61	EMPTY	1.3330	1.3379	1.3346	2.3008e-03	0.0000e+00
62	EMPTY	1.3428	1.3428	1.3428	0.0000e+00	0.0000e+00
63	EMPTY	1.3525	1.3574	1.3535	1.9730e-03	0.0000e+00
64	EMPTY	0.7178	0.7275	0.7232	1.8821e-03	0.0000e+00
65	EMPTY	0.7373	0.7471	0.7422	1.7086e-03	0.0000e+00
66	EMPTY	0.7520	0.7568	0.7566	9.6655e-04	0.0000e+00
67	EMPTY	0.7715	0.7764	0.7730	2.3008e-03	0.0000e+00
68	EMPTY	0.7813	0.7861	0.7854	1.7115e-03	0.0000e+00
69	EMPTY	0.8008	0.8008	0.8008	0.0000e+00	0.0000e+00
70	EMPTY	0.8105	0.8154	0.8152	9.6655e-04	0.0000e+00
71	EMPTY	0.8301	0.8398	0.8363	2.4244e-03	0.0000e+00
72	EMPTY	0.8447	0.8496	0.8495	6.9053e-04	0.0000e+00
73	EMPTY	0.8643	0.8691	0.8652	1.9730e-03	0.0000e+00
74	EMPTY	0.8789	0.8838	0.8791	9.6655e-04	0.0000e+00
75	EMPTY	0.8936	0.8984	0.8951	2.3008e-03	0.0000e+00
76	EMPTY	0.9082	0.9082	0.9082	0.0000e+00	0.0000e+00
77	EMPTY	0.9229	0.9277	0.9269	1.8950e-03	0.0000e+00
78	EMPTY	0.9424	0.9473	0.9470	1.1714e-03	0.0000e+00
79	EMPTY	0.9668	0.9717	0.9673	1.4797e-03	0.0000e+00
80	PAN020136	8.8162	10.4946	9.5806	3.7233e-01	8.7033e-01
81	PAN050136	16.6194	17.6875	17.1565	2.1411e-01	1.6805e+00
82	PAN070136	14.1270	14.7373	14.4077	1.5601e-01	8.7075e-01
83	PAN080136	4.6829	5.4458	5.1208	1.5780e-01	8.7009e-01
84	PAN090136	4.8474	5.5341	5.1648	1.7189e-01	8.7010e-01
85	PAN100136	4.7610	5.2188	5.0250	1.0702e-01	8.7009e-01
86	PAN105136	2.7235	3.1813	2.9829	9.7485e-02	8.7003e-01
87	PAN110136	3.0148	3.3199	3.1552	7.6076e-02	8.7004e-01
88	PAN115136	5.4874	6.0215	5.7590	1.1132e-01	8.7012e-01
89	PAN120136	0.8014	1.2592	1.0806	1.1180e-01	8.7000e-01
90	PAN125136	3.6344	4.2448	3.9991	1.4151e-01	8.7006e-01
91	PAN130136	1.8475	2.2290	2.0795	7.0567e-02	8.7002e-01
92	PAN120048	4.8942	5.3519	5.1368	1.2681e-01	8.7009e-01
93	PAN130048	5.4604	5.9945	5.7412	1.3910e-01	8.7012e-01
94	PAN120224	7.2933	7.6748	7.4307	8.5820e-02	8.7020e-01
95	PAN130224	5.5193	6.0533	5.7741	1.3579e-01	8.7012e-01
96	PAN120312	6.0294	6.4109	6.2385	1.0769e-01	8.7014e-01
97	PAN130312	5.0708	5.4523	5.2676	8.8666e-02	8.7010e-01
98	PAB000136	40.3023	40.6685	40.5028	8.0566e-02	5.8877e-01
99	PAB100136	38.6880	38.8711	38.7667	4.0354e-02	5.8804e-01
100	PAB125136	38.1110	38.2484	38.1935	3.9237e-02	5.8781e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8587	40.4690	40.1394	1.4433e-01	7.5668e-01
102	PRV000001	19.7274	19.8495	19.8104	5.7521e-02	7.5163e-01
103	PSR000001	36.8644	36.8644	36.8644	1.9267e-05	7.5564e-01
104	PFM000001	33.4887	34.4042	33.9995	1.9230e-01	5.0717e-01
105	PAN000136	73.5093	80.3757	76.2101	1.4948e+00	4.9237e+00
106	PFM000002	27.7600	27.7600	27.7600	1.5414e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0053	1.3381e-03	0.0000e+00
108	EMPTY	-7.5488	-5.8447	-6.7954	4.1422e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0044	1.4797e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	100.5906	101.1766	100.9031	1.7200e-01	1.0113e+00
113	VPW000002	118.5500	119.1359	118.7726	1.0447e-01	1.0789e+00
114	VPW000003	145.8584	146.2491	146.1123	1.2633e-01	1.1936e+00
115	VPW000004	104.4569	105.0428	104.6952	1.4916e-01	1.0250e+00
116	VPW000005	138.9425	139.3331	139.0791	1.2633e-01	1.1629e+00
117	VPW000006	146.7150	147.1056	146.9571	1.2200e-01	1.1973e+00
118	IPW000001	555.6183	561.4753	558.8202	1.2938e+00	9.2249e+00
119	IPW000002	1287.8379	1293.6917	1291.2726	1.5550e+00	1.3026e+01
120	IPW000003	1313.4545	1319.3044	1315.6780	1.6248e+00	1.3177e+01
121	IPW000004	381.4359	383.8773	382.4025	7.5445e-01	3.6230e+00
122	IPW000005	253.5926	255.0573	254.0517	3.4748e-01	2.8334e+00
123	IPW000006	262.2070	264.1602	262.9785	4.1957e-01	2.8838e+00
124	EMPTY	-0.0293	-0.0146	-0.0219	3.9754e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0156	3.1195e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0190	3.1583e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.1257e-03	0.0000e+00
128	IHT000001	129.6334	131.7819	130.5319	5.4247e-01	4.3028e+00
129	IHT000002	133.3491	135.6928	134.2514	5.1128e-01	4.3142e+00
130	IHT000003	132.9538	135.2975	134.0280	5.2534e-01	4.3135e+00
131	IHT000004	131.2853	133.8244	132.3751	5.4117e-01	4.3084e+00
132	IHT000005	129.8381	132.1819	130.8732	5.1486e-01	4.3038e+00
133	IHT000006	124.8072	126.9556	125.9048	5.2481e-01	4.2890e+00
134	IHT000007	131.6006	133.9444	132.7725	5.4676e-01	4.3096e+00
135	IHT000008	130.0381	132.3819	131.3701	5.1401e-01	4.3053e+00
136	IHT000009	130.5441	132.6925	131.7706	5.0074e-01	4.3065e+00
137	IHT000010	132.9278	134.6856	133.6973	3.7932e-01	4.3125e+00
138	IHT000011	131.4453	132.8125	132.1055	3.4375e-01	4.3076e+00
139	IHT000012	128.8687	130.6266	129.7945	4.1349e-01	4.3005e+00
140	IHT000013	92.1734	93.9313	93.1031	4.2601e-01	4.2044e+00
141	IHT000014	128.0050	129.7628	128.7041	4.3600e-01	4.2973e+00
142	IHT000015	95.1125	96.6750	95.7844	4.1603e-01	4.2104e+00
143	IHT000016	88.4366	90.3897	89.2295	4.3119e-01	4.1960e+00
144	IHT000017	103.9063	106.4453	105.2656	5.2934e-01	4.2330e+00
145	IHT000018	-1.2072	0.7459	-0.2697	4.1196e-01	4.1000e+00
146	IHT000019	107.3419	109.2950	108.0996	4.9227e-01	4.2401e+00
147	IHT000020	105.9512	107.9044	106.7715	4.4293e-01	4.2367e+00
148	IHT000021	0.7150	2.4728	1.4103	4.0847e-01	4.1000e+00
149	IHT000022	92.1075	94.2559	92.9629	4.9582e-01	4.2041e+00
150	IHT000023	105.5488	107.5019	106.2988	4.7080e-01	4.2356e+00
151	IHT000024	66.9116	68.8647	67.7358	4.8374e-01	4.1556e+00
152	IHT000025	103.3509	105.3041	104.0853	5.0310e-01	4.2301e+00
153	IHT000026	105.5088	107.4619	106.2432	4.8417e-01	4.2354e+00
154	IHT000027	89.5331	91.2909	90.4003	4.6044e-01	4.1985e+00
155	IHT000028	89.7991	92.1428	91.0373	5.0007e-01	4.1999e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6641	107.8125	106.8750	4.8327e-01	4.2370e+00
157	IHT000030	108.3184	110.2716	109.5762	4.3074e-01	4.2439e+00
158	IHT000031	106.1300	108.0831	107.3643	4.2943e-01	4.2382e+00
159	IHT000032	107.1113	109.2597	108.3418	4.4161e-01	4.2407e+00
160	IHT000033	-1.5872	0.3659	-0.4505	3.7161e-01	4.1000e+00
161	IHT000034	94.1006	96.4444	95.2256	4.2601e-01	4.2091e+00
162	IHT000035	123.8753	126.0238	125.1293	4.5178e-01	4.2867e+00
163	IHT000036	92.7734	94.7266	93.8945	4.0589e-01	4.2061e+00

Velocity 1 = 14.7762 (ft/sec) (+/- 3.5483 %)
Velocity 2 = 13.3710 (ft/sec) (+/- 3.4861 %)
Pressure drop = 2.7473 (psi)
Tsat in = 268.1446 (deg F) Tsat out = 264.6378 (deg F)
Phi inner = 99.9167 (kBtu/hr-ft2) (+/- 1.5716 %)
Phi outer = 100.0936 (kBtu/hr-ft2) (+/- 1.5528 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.0186	75.6557	75.4173	1.9209e-01	1.9000e+00
1	TRF000002	75.5756	75.9982	75.8775	1.1413e-01	1.9000e+00
2	TFM000001	86.1473	86.8814	86.4384	1.9991e-01	1.9002e+00
3	TIN000001	86.1010	86.6268	86.3928	1.5660e-01	1.9002e+00
4	TRV000001	86.1564	86.9933	86.5283	1.9929e-01	1.9002e+00
5	TSR000001	116.0294	118.0701	117.5369	4.8163e-01	1.9015e+00
6	TAO020136	164.2466	165.2368	164.7741	2.4035e-01	1.9060e+00
7	TAO050136	129.1319	129.9404	129.4623	1.7860e-01	1.9024e+00
8	TAO070136	132.9908	133.7019	133.3106	2.0510e-01	1.9027e+00
9	TAO080136	142.2034	142.9044	142.6445	1.5569e-01	1.9036e+00
10	TAO090136	140.1354	140.8395	140.4928	2.0418e-01	1.9033e+00
11	TAO100136	141.5440	142.1464	141.8612	1.6064e-01	1.9035e+00
12	TAO105136	142.9468	143.8507	143.3241	1.7456e-01	1.9036e+00
13	EMPTY	40.9819	41.6693	41.3421	1.4032e-01	1.9012e+00
14	TAO115136	146.3774	147.1806	146.7852	2.0333e-01	1.9040e+00
15	EMPTY	37.5374	37.9974	37.7534	8.6676e-02	1.9010e+00
16	TAO125136	142.9608	143.4631	143.2029	1.5587e-01	1.9036e+00
17	TAO130136	134.7635	135.2665	135.0302	1.3849e-01	1.9028e+00
18	EMPTY	41.2111	41.6693	41.4450	8.7361e-02	1.9012e+00
19	TAO130048	140.3109	140.9136	140.5820	1.5380e-01	1.9034e+00
20	TAO120224	140.9009	141.6044	141.2645	1.5471e-01	1.9034e+00
21	EMPTY	38.9168	39.3761	39.1465	4.6879e-02	1.9010e+00
22	TAO120312	147.7853	148.2864	148.0473	1.4576e-01	1.9041e+00
23	TAO130312	140.9202	141.5235	141.2057	1.4988e-01	1.9034e+00
24	EMPTY	38.9168	39.6057	39.2730	1.9360e-01	1.9010e+00
25	TRT070000	125.3046	126.1233	125.7501	1.9963e-01	1.9021e+00
26	TRT100000	139.4862	140.2899	139.9986	1.8372e-01	1.9033e+00
27	TRT120000	145.2352	145.9365	145.5403	1.7588e-01	1.9038e+00
28	TRT125000	146.8307	147.5289	147.1645	1.7927e-01	1.9040e+00
29	EMPTY	39.8352	40.0646	39.9148	1.1036e-01	1.9011e+00
30	EMPTY	39.3761	40.2940	39.7415	2.3387e-01	1.9011e+00
31	TAF050136	100.0439	100.7689	100.4242	1.8832e-01	1.9006e+00
32	TAF070136	105.2668	106.0896	105.6658	2.0522e-01	1.9009e+00
33	TAF080136	107.6966	108.6199	108.1362	1.7534e-01	1.9010e+00
34	TAF090136	109.3377	110.2644	109.8210	2.6928e-01	1.9011e+00
35	TAF100136	111.7489	112.5726	112.0748	1.9418e-01	1.9012e+00
36	TAF105136	113.0359	114.0560	113.6108	2.1523e-01	1.9013e+00
37	TAF110136	114.3080	115.1277	114.6036	1.8185e-01	1.9013e+00
38	TAF115136	116.1059	116.9244	116.4447	1.7748e-01	1.9015e+00
39	TAF120136	117.1970	117.8108	117.4876	1.4055e-01	1.9015e+00
40	TAF125136	118.5764	119.0873	118.8019	1.5434e-01	1.9016e+00
41	TAF130136	119.5237	120.0348	119.8115	1.3143e-01	1.9017e+00
42	TAF120048	121.5768	122.7051	122.2151	2.5414e-01	1.9018e+00
43	TAF130048	123.0225	123.6348	123.2664	1.3940e-01	1.9019e+00
44	TAF120224	118.3822	119.5062	118.9075	2.0448e-01	1.9016e+00
45	TAF130224	119.8420	120.4574	120.1434	1.4553e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9411	2.0207e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1793	8.1188e-02	1.9010e+00
48	TAI130048	145.8350	146.8368	146.3278	2.6956e-01	1.9039e+00
49	EMPTY	37.9974	38.6870	38.2883	1.8637e-01	1.9010e+00
50	TAI130224	141.1338	142.5439	142.0344	3.0522e-01	1.9035e+00
51	EMPTY	40.0646	40.7527	40.4204	1.8763e-01	1.9011e+00
52	TRR130000	84.6550	87.0635	85.8415	5.5311e-01	1.9002e+00
53	TSI000001	50.7229	51.4792	50.9880	1.9350e-01	1.9002e+00
54	TSI000002	75.6266	78.3706	76.8123	7.4871e-01	1.9000e+00
55	TSO000001	49.6594	50.4200	50.0193	1.9348e-01	1.9003e+00
56	TSO000002	56.1365	57.2130	56.5280	2.0919e-01	1.9001e+00
57	TAF020136	90.7460	91.6928	91.2462	1.8758e-01	1.9003e+00
58	TAF120312	120.4305	121.4521	120.9350	2.5398e-01	1.9017e+00
59	TAF130312	122.7425	123.4560	123.1377	1.8091e-01	1.9019e+00
60	EMPTY	1.3135	1.3184	1.3136	6.9754e-04	0.0000e+00
61	EMPTY	1.3184	1.3232	1.3217	2.2737e-03	0.0000e+00
62	EMPTY	1.3281	1.3379	1.3287	1.8997e-03	0.0000e+00
63	EMPTY	1.3379	1.3428	1.3394	2.2737e-03	0.0000e+00
64	EMPTY	0.7129	0.7178	0.7171	1.7263e-03	0.0000e+00
65	EMPTY	0.7324	0.7422	0.7356	2.5510e-03	0.0000e+00
66	EMPTY	0.7471	0.7520	0.7489	2.3783e-03	0.0000e+00
67	EMPTY	0.7617	0.7666	0.7665	6.9754e-04	0.0000e+00
68	EMPTY	0.7764	0.7813	0.7768	1.3508e-03	0.0000e+00
69	EMPTY	0.7910	0.7959	0.7950	1.9103e-03	0.0000e+00
70	EMPTY	0.8057	0.8105	0.8082	2.4662e-03	0.0000e+00
71	EMPTY	0.8301	0.8350	0.8302	6.9754e-04	0.0000e+00
72	EMPTY	0.8398	0.8447	0.8420	2.4538e-03	0.0000e+00
73	EMPTY	0.8545	0.8643	0.8596	1.3951e-03	0.0000e+00
74	EMPTY	0.8691	0.8740	0.8735	1.4934e-03	0.0000e+00
75	EMPTY	0.8887	0.8936	0.8888	6.9754e-04	0.0000e+00
76	EMPTY	0.8984	0.9033	0.9014	2.4037e-03	0.0000e+00
77	EMPTY	0.9180	0.9229	0.9181	6.9754e-04	0.0000e+00
78	EMPTY	0.9375	0.9424	0.9387	2.1215e-03	0.0000e+00
79	EMPTY	0.9619	0.9668	0.9621	9.7615e-04	0.0000e+00
80	PAN020136	8.7399	10.4183	9.5511	3.4002e-01	8.7033e-01
81	PAN050136	16.3142	17.3823	17.0242	2.3833e-01	1.6805e+00
82	PAN070136	14.2032	14.9662	14.6361	1.5210e-01	8.7077e-01
83	PAN080136	4.2251	4.8354	4.5770	1.1635e-01	8.7008e-01
84	PAN090136	5.4578	6.0681	5.7349	1.4500e-01	8.7012e-01
85	PAN100136	4.6847	5.1425	4.9042	1.1925e-01	8.7009e-01
86	PAN105136	2.6472	3.1050	2.9166	9.9843e-02	8.7003e-01
87	PAN110136	2.8622	3.2437	3.1035	8.4366e-02	8.7003e-01
88	PAN115136	5.6400	5.9452	5.7692	9.1080e-02	8.7012e-01
89	PAN120136	0.7251	1.2592	1.0054	1.2784e-01	8.7000e-01
90	PAN125136	3.8633	4.3973	4.1669	1.1066e-01	8.7006e-01
91	PAN130136	1.7712	2.1527	1.9596	9.9843e-02	8.7001e-01
92	PAN120048	4.8942	5.5045	5.1542	1.5410e-01	8.7010e-01
93	PAN130048	5.3842	6.1471	5.7174	1.3990e-01	8.7012e-01
94	PAN120224	7.0645	7.5985	7.3260	1.0212e-01	8.7019e-01
95	PAN130224	5.5956	6.1296	5.8291	1.1592e-01	8.7012e-01
96	PAN120312	6.0294	6.4872	6.2692	1.1338e-01	8.7014e-01
97	PAN130312	5.0708	5.4523	5.2545	1.0892e-01	8.7010e-01
98	PAB000136	40.3481	40.6685	40.5237	7.8927e-02	5.8878e-01
99	PAB100136	38.6880	38.8711	38.7833	4.3665e-02	5.8805e-01
100	PAB125136	38.1110	38.2484	38.2045	3.4911e-02	5.8781e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9808	40.7132	40.3420	1.6332e-01	7.5675e-01
102	PRV000001	19.6054	19.8495	19.7698	6.3776e-02	7.5163e-01
103	PSR000001	36.8644	36.9864	36.9291	6.1552e-02	7.5566e-01
104	PFM000001	33.2140	34.4042	33.9464	2.2112e-01	5.0715e-01
105	PAN000136	73.0515	78.5447	76.0597	1.3280e+00	4.9237e+00
106	PFM000002	27.7600	27.7600	27.7600	1.3490e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0053	1.3508e-03	0.0000e+00
108	EMPTY	-7.6025	-5.7031	-6.7403	3.9920e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0042	1.7263e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0098	0.0002	1.3951e-03	0.0000e+00
112	VPW000001	100.7859	101.1766	100.9494	1.4565e-01	1.0114e+00
113	VPW000002	118.5500	118.9406	118.7931	1.1644e-01	1.0789e+00
114	VPW000003	145.8584	146.4444	146.1374	1.1960e-01	1.1937e+00
115	VPW000004	104.2616	104.8475	104.5765	1.2491e-01	1.0246e+00
116	VPW000005	138.9425	139.5284	139.1298	1.6418e-01	1.1632e+00
117	VPW000006	146.7150	147.3009	147.1255	1.1448e-01	1.1981e+00
118	IPW000001	547.8089	553.6660	550.0004	1.5757e+00	9.1918e+00
119	IPW000002	1293.6917	1303.4480	1297.7935	2.7951e+00	1.3066e+01
120	IPW000003	1325.1544	1329.0544	1327.3837	1.2587e+00	1.3250e+01
121	IPW000004	382.4125	384.3656	383.5981	4.6749e-01	3.6309e+00
122	IPW000005	254.0808	256.0338	254.8780	3.9481e-01	2.8380e+00
123	IPW000006	263.6719	265.6250	264.7680	4.6248e-01	2.8940e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	4.0549e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0160	2.8191e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0176	4.4369e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0173	3.1615e-03	0.0000e+00
128	IHT000001	129.6334	132.3678	130.7096	5.6258e-01	4.3033e+00
129	IHT000002	133.5444	135.4975	134.3416	4.7481e-01	4.3145e+00
130	IHT000003	133.1491	135.2975	134.0778	4.8588e-01	4.3137e+00
131	IHT000004	131.6759	133.6291	132.4133	4.5503e-01	4.3085e+00
132	IHT000005	130.2287	132.1819	130.9541	4.7675e-01	4.3041e+00
133	IHT000006	125.1978	127.3463	125.9272	5.3157e-01	4.2890e+00
134	IHT000007	131.7959	134.3350	132.8681	5.4972e-01	4.3099e+00
135	IHT000008	130.4288	132.5772	131.5009	5.3358e-01	4.3057e+00
136	IHT000009	130.7394	133.2784	131.9311	5.3673e-01	4.3070e+00
137	IHT000010	133.1231	135.2716	133.8445	4.8206e-01	4.3129e+00
138	IHT000011	131.6406	133.3984	132.2943	4.3225e-01	4.3082e+00
139	IHT000012	129.2594	131.6031	130.0127	5.0272e-01	4.3012e+00
140	IHT000013	92.1734	94.1266	93.1181	4.3918e-01	4.2044e+00
141	IHT000014	127.8097	129.9581	128.8181	4.6382e-01	4.2976e+00
142	IHT000015	94.9172	96.6750	95.7742	4.5773e-01	4.2104e+00
143	IHT000016	88.4366	90.3897	89.3095	4.6168e-01	4.1961e+00
144	IHT000017	104.4922	108.7891	106.4174	1.1520e+00	4.2359e+00
145	IHT000018	-0.8166	1.1366	-0.1469	4.8337e-01	4.1000e+00
146	IHT000019	107.3419	109.4903	108.3224	5.3114e-01	4.2407e+00
147	IHT000020	106.1466	107.9044	106.9915	4.7069e-01	4.2373e+00
148	IHT000021	0.7150	2.2775	1.5042	4.5274e-01	4.1000e+00
149	IHT000022	92.3028	94.0606	93.1398	4.5978e-01	4.2045e+00
150	IHT000023	105.9394	107.5019	106.5453	4.4260e-01	4.2362e+00
151	IHT000024	67.3022	68.6694	67.9480	4.2419e-01	4.1559e+00
152	IHT000025	103.5462	105.3041	104.3833	4.4574e-01	4.2308e+00
153	IHT000026	105.7041	107.4619	106.4973	4.8404e-01	4.2361e+00
154	IHT000027	89.9238	91.6816	90.5974	4.5116e-01	4.1989e+00
155	IHT000028	90.1897	92.3381	91.2021	5.4325e-01	4.2002e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8594	108.2031	107.0392	5.2734e-01	4.2374e+00
157	IHT000030	108.3184	110.8575	109.7813	5.9284e-01	4.2444e+00
158	IHT000031	106.3253	108.6691	107.5410	5.4993e-01	4.2387e+00
159	IHT000032	107.5019	109.4550	108.5901	5.3041e-01	4.2414e+00
160	IHT000033	-1.3919	0.5612	-0.3316	4.6322e-01	4.1000e+00
161	IHT000034	94.2959	96.2491	95.2765	4.9232e-01	4.2092e+00
162	IHT000035	124.2659	126.2191	125.2266	5.1803e-01	4.2870e+00
163	IHT000036	92.9688	94.7266	93.8616	4.5457e-01	4.2061e+00

Velocity 1 = 0.011900 (ft/sec)
 Velocity 2 = 0.000400 (ft/sec)
 Pressure Drop = 0.005400 (psi)
 Tsat in = 0.030792 (deg F) Tsat out = 0.017090 (deg F)
 Phi inner = 0.879799 (kBtu/hr-ft2) Phi outer = 0.050499 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0419	0.0556
1	TRF000002	0.0991	0.1308
2	TFM000001	0.3334	0.3842
3	TIN000001	0.2928	0.3378
4	TRV000001	0.3015	0.3472
5	TSR000001	1.3601	1.1707
6	TAO020136	0.9277	0.5662
7	TAO050136	0.1950	0.1504
8	TAO070136	0.2825	0.2124
9	TAO080136	2.4868	1.7743
10	TAO090136	3.5486	2.4636
11	TAO100136	3.1843	2.1954
12	TAO105136	1.0923	0.7564
13	EMPTY	0.0210	0.0508
14	TAO115136	0.1870	0.1272
15	EMPTY	0.0279	0.0738
16	TAO125136	0.1191	0.0831
17	TAO130136	0.1211	0.0896
18	EMPTY	0.0228	0.0550
19	TAO130048	0.3993	0.2832
20	TAO120224	0.2478	0.1751
21	EMPTY	0.0000	0.0000
22	TAO120312	0.6430	0.4324
23	TAO130312	0.5774	0.4072
24	EMPTY	0.0434	0.1104
25	TRT070000	0.4237	0.3358
26	TRT100000	0.7396	0.5255
27	TRT120000	0.5762	0.3943
28	TRT125000	0.5970	0.4040
29	EMPTY	0.0168	0.0421
30	EMPTY	0.0211	0.0531
31	TAF050136	0.2773	0.2754
32	TAF070136	0.3075	0.2902
33	TAF080136	0.1175	0.1085
34	TAF090136	0.3235	0.2937
35	TAF100136	0.3579	0.3183
36	TAF105136	0.2731	0.2398
37	TAF110136	0.2696	0.2347
38	TAF115136	0.2220	0.1903
39	TAF120136	0.2646	0.2247
40	TAF125136	0.2266	0.1904
41	TAF130136	0.1493	0.1245
42	TAF120048	0.4951	0.4035
43	TAF130048	0.3518	0.2846
44	TAF120224	0.1856	0.1558
45	TAF130224	0.1669	0.1387

#	Name	Abs Diff	%Diff
46	EMPTY	0.0449	0.1185
47	EMPTY	0.0283	0.0723
48	TAI130048	0.2244	0.1531
49	EMPTY	0.0472	0.1234
50	TAI130224	0.0225	0.0158
51	EMPTY	0.0346	0.0857
52	TRR130000	1.2759	1.4646
53	TSI000001	0.0549	0.1076
54	TSI000002	1.0207	1.3467
55	TSO000001	0.0764	0.1530
56	TSO000002	0.0034	0.0060
57	TAF020136	0.3167	0.3459
58	TAF120312	0.5655	0.4654
59	TAF130312	0.5049	0.4084
60	EMPTY	0.0136	1.0247
61	EMPTY	0.0129	0.9666
62	EMPTY	0.0141	1.0501
63	EMPTY	0.0141	1.0417
64	EMPTY	0.0061	0.8435
65	EMPTY	0.0066	0.8893
66	EMPTY	0.0077	1.0177
67	EMPTY	0.0065	0.8409
68	EMPTY	0.0086	1.0950
69	EMPTY	0.0058	0.7243
70	EMPTY	0.0070	0.8587
71	EMPTY	0.0061	0.7294
72	EMPTY	0.0075	0.8829
73	EMPTY	0.0056	0.6472
74	EMPTY	0.0056	0.6370
75	EMPTY	0.0063	0.7038
76	EMPTY	0.0068	0.7487
77	EMPTY	0.0088	0.9494
78	EMPTY	0.0083	0.8765
79	EMPTY	0.0052	0.5376
80	PAN020136	0.0295	0.3079
81	PAN050136	0.1323	0.7711
82	PAN070136	0.2284	1.5853
83	PAN080136	0.5438	10.6194
84	PAN090136	0.5701	11.0382
85	PAN100136	0.1208	2.4040
86	PAN105136	0.0663	2.2227
87	PAN110136	0.0517	1.6386
88	PAN115136	0.0102	0.1771
89	PAN120136	0.0752	6.9591
90	PAN125136	0.1678	4.1959
91	PAN130136	0.1199	5.7658
92	PAN120048	0.0174	0.3387
93	PAN130048	0.0238	0.4145
94	PAN120224	0.1047	1.4090
95	PAN130224	0.0550	0.9525
96	PAN120312	0.0307	0.4921
97	PAN130312	0.0131	0.2487
98	PAB000136	0.0209	0.0516
99	PAB100136	0.0166	0.0428
100	PAB125136	0.0110	0.0288

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2026	0.5047
102	PRV000001	0.0406	0.2049
103	PSR000001	0.0647	0.1755
104	PFM000001	0.0531	0.1562
105	PAN000136	0.1504	0.1973
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0000	0.0000
108	EMPTY	0.0551	0.8108
109	EMPTY	0.0002	4.5455
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.0463	0.0459
113	VPW000002	0.0205	0.0173
114	VPW000003	0.0251	0.0172
115	VPW000004	0.1187	0.1134
116	VPW000005	0.0507	0.0365
117	VPW000006	0.1684	0.1146
118	IPW000001	8.8198	1.5783
119	IPW000002	6.5209	0.5050
120	IPW000003	11.7057	0.8897
121	IPW000004	1.1956	0.3127
122	IPW000005	0.8263	0.3253
123	IPW000006	1.7895	0.6805
124	EMPTY	0.0007	3.1964
125	EMPTY	0.0004	2.5641
126	EMPTY	0.0014	7.3684
127	EMPTY	0.0013	8.1250
128	IHT000001	0.1777	0.1361
129	IHT000002	0.0902	0.0672
130	IHT000003	0.0498	0.0372
131	IHT000004	0.0382	0.0289
132	IHT000005	0.0809	0.0618
133	IHT000006	0.0224	0.0178
134	IHT000007	0.0956	0.0720
135	IHT000008	0.1308	0.0996
136	IHT000009	0.1605	0.1218
137	IHT000010	0.1472	0.1101
138	IHT000011	0.1888	0.1429
139	IHT000012	0.2182	0.1681
140	IHT000013	0.0150	0.0161
141	IHT000014	0.1140	0.0886
142	IHT000015	0.0102	0.0106
143	IHT000016	0.0800	0.0897
144	IHT000017	1.1518	1.0942
145	IHT000018	0.1228	45.5321
146	IHT000019	0.2228	0.2061
147	IHT000020	0.2200	0.2060
148	IHT000021	0.0939	6.6582
149	IHT000022	0.1769	0.1903
150	IHT000023	0.2465	0.2319
151	IHT000024	0.2122	0.3133
152	IHT000025	0.2980	0.2863
153	IHT000026	0.2541	0.2392
154	IHT000027	0.1971	0.2180
155	IHT000028	0.1648	0.1810

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1642	0.1536
157	IHT000030	0.2051	0.1872
158	IHT000031	0.1767	0.1646
159	IHT000032	0.2483	0.2292
160	IHT000033	0.1189	26.3929
161	IHT000034	0.0509	0.0534
162	IHT000035	0.0973	0.0778
163	IHT000036	0.0329	0.0350

Velocity 1 = 9.7731 (ft/sec) (+/- 3.8627 %)
Velocity 2 = 9.7776 (ft/sec) (+/- 3.5241 %)
Pressure drop = -1.6630 (psi)
Tsat in = 268.0787 (deg F) Tsat out = 270.8601 (deg F)
Phi inner = 100.6297 (kBtu/hr-ft2) (+/- 1.5699 %)
Phi outer = 100.3912 (kBtu/hr-ft2) (+/- 1.5523 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.2310	76.0803	75.7237	1.7393e-01	1.9000e+00
1	TRF000002	75.9982	76.4207	76.1714	1.3955e-01	1.9000e+00
2	TFM000001	87.3001	87.9284	87.6414	1.7156e-01	1.9002e+00
3	TIN000001	87.1519	87.7816	87.4648	1.5509e-01	1.9002e+00
4	TRV000001	87.4111	88.2481	87.8152	1.9474e-01	1.9002e+00
5	TSR000001	127.0040	129.6340	128.3984	8.3810e-01	1.9023e+00
6	TAO020136	171.5582	172.3465	172.0135	1.9693e-01	1.9070e+00
7	TAO050136	146.2837	146.8838	146.5509	1.6473e-01	1.9039e+00
8	TAO070136	150.5573	151.4588	151.0800	1.9848e-01	1.9044e+00
9	TAO080136	156.9987	157.5943	157.3073	1.4047e-01	1.9051e+00
10	TAO090136	159.6688	160.4617	160.0791	2.0884e-01	1.9055e+00
11	TAO100136	160.6860	161.2806	160.9858	1.4364e-01	1.9056e+00
12	TAO105136	161.0012	161.8936	161.4553	2.2744e-01	1.9056e+00
13	EMPTY	41.2111	41.4403	41.3074	1.1424e-01	1.9011e+00
14	TAO115136	166.9264	167.8170	167.3719	2.2718e-01	1.9064e+00
15	EMPTY	36.3865	39.6057	38.4061	1.0126e+00	1.9010e+00
16	TAO125136	167.0697	167.7605	167.4350	1.6567e-01	1.9064e+00
17	TAO130136	156.8807	157.4746	157.2072	1.5358e-01	1.9051e+00
18	EMPTY	41.4403	41.8984	41.6143	1.1853e-01	1.9012e+00
19	TAO130048	165.2418	165.8339	165.5565	1.3028e-01	1.9061e+00
20	TAO120224	163.8149	164.6048	164.2160	1.8232e-01	1.9060e+00
21	EMPTY	39.1464	39.3761	39.1924	9.2786e-02	1.9010e+00
22	TAO120312	173.4608	174.3453	173.9228	1.9159e-01	1.9073e+00
23	TAO130312	165.7555	166.4469	166.1370	1.5309e-01	1.9062e+00
24	EMPTY	39.1464	39.6057	39.4036	1.7132e-01	1.9010e+00
25	TRT070000	144.4248	145.4343	144.8841	1.8691e-01	1.9038e+00
26	TRT100000	162.0727	163.2583	162.6642	2.4232e-01	1.9058e+00
27	TRT120000	171.8005	172.6855	172.1764	2.0504e-01	1.9070e+00
28	TRT125000	173.1204	173.9018	173.5443	1.8587e-01	1.9072e+00
29	EMPTY	39.6057	40.0646	39.9270	1.2266e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7571	2.0003e-01	1.9011e+00
31	TAF050136	107.6701	108.4937	108.1581	2.0965e-01	1.9010e+00
32	TAF070136	115.2885	116.5109	115.8237	2.5051e-01	1.9014e+00
33	TAF080136	118.7973	119.7145	119.3459	1.9045e-01	1.9016e+00
34	TAF090136	121.3207	122.5447	121.8578	2.7927e-01	1.9018e+00
35	TAF100136	125.0636	125.7768	125.3961	2.0146e-01	1.9021e+00
36	TAF105136	126.7145	127.9275	127.3767	2.6443e-01	1.9022e+00
37	TAF110136	128.5351	129.2440	128.9498	1.8440e-01	1.9023e+00
38	TAF115136	131.0441	131.9551	131.4637	2.3026e-01	1.9025e+00
39	TAF120136	132.7832	133.4912	133.1578	1.7450e-01	1.9027e+00
40	TAF125136	134.6308	135.4364	135.0689	1.8491e-01	1.9029e+00
41	TAF130136	136.3593	137.0653	136.7124	1.7440e-01	1.9030e+00
42	TAF120048	140.0446	141.2588	140.6378	2.5294e-01	1.9034e+00
43	TAF130048	142.3478	143.1514	142.7599	1.7838e-01	1.9036e+00
44	TAF120224	134.0247	135.1353	134.5037	2.3949e-01	1.9028e+00
45	TAF130224	136.6831	137.2905	137.0333	1.6121e-01	1.9030e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.8962	2.2359e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2567	1.1589e-01	1.9010e+00
48	TAI130048	172.0216	173.2987	172.6640	3.0629e-01	1.9071e+00
49	EMPTY	37.7675	38.6870	38.2411	1.9927e-01	1.9010e+00
50	TAI130224	165.4083	166.3977	166.0118	2.8491e-01	1.9062e+00
51	EMPTY	40.2940	40.9819	40.5876	1.7967e-01	1.9011e+00
52	TRR130000	92.3877	95.3015	93.8763	7.7558e-01	1.9004e+00
53	TSI000001	51.1553	52.0190	51.5289	1.9763e-01	1.9002e+00
54	TSI000002	73.9365	76.7894	75.2536	6.8004e-01	1.9000e+00
55	TSO000001	49.5509	50.6358	50.1302	2.1548e-01	1.9003e+00
56	TSO000002	57.6432	58.5035	58.1786	2.0776e-01	1.9001e+00
57	TAF020136	94.5290	95.3690	94.9589	2.1923e-01	1.9004e+00
58	TAF120312	138.5842	139.8935	139.2030	3.0520e-01	1.9032e+00
59	TAF130312	142.6495	143.3526	142.9492	1.7850e-01	1.9036e+00
60	EMPTY	1.7773	1.7822	1.7811	2.1065e-03	0.0000e+00
61	EMPTY	1.7822	1.7871	1.7859	2.1065e-03	0.0000e+00
62	EMPTY	1.7871	1.7969	1.7896	2.6562e-03	0.0000e+00
63	EMPTY	1.7969	1.8018	1.7975	1.6028e-03	0.0000e+00
64	EMPTY	0.9180	0.9229	0.9182	9.6655e-04	0.0000e+00
65	EMPTY	0.9326	0.9375	0.9353	2.4583e-03	0.0000e+00
66	EMPTY	0.9473	0.9473	0.9473	0.0000e+00	0.0000e+00
67	EMPTY	0.9619	0.9668	0.9622	1.1714e-03	0.0000e+00
68	EMPTY	0.9717	0.9766	0.9728	2.0432e-03	0.0000e+00
69	EMPTY	0.9863	0.9912	0.9895	2.3675e-03	0.0000e+00
70	EMPTY	1.0010	1.0059	1.0011	6.9053e-04	0.0000e+00
71	EMPTY	1.0205	1.0254	1.0206	6.9053e-04	0.0000e+00
72	EMPTY	1.0303	1.0352	1.0324	2.4484e-03	0.0000e+00
73	EMPTY	1.0449	1.0547	1.0497	1.2041e-03	0.0000e+00
74	EMPTY	1.0596	1.0645	1.0613	2.3675e-03	0.0000e+00
75	EMPTY	1.0693	1.0791	1.0758	2.5034e-03	0.0000e+00
76	EMPTY	1.0889	1.0938	1.0891	9.6655e-04	0.0000e+00
77	EMPTY	1.1035	1.1084	1.1040	1.4797e-03	0.0000e+00
78	EMPTY	1.1182	1.1279	1.1236	1.8821e-03	0.0000e+00
79	EMPTY	1.1426	1.1475	1.1461	2.2146e-03	0.0000e+00
80	PAN020136	-6.2900	-5.1456	-5.7590	2.3777e-01	8.7012e-01
81	PAN050136	-11.9146	-10.9990	-11.5514	2.1555e-01	1.6802e+00
82	PAN070136	-6.5487	-5.9384	-6.2573	1.2959e-01	8.7014e-01
83	PAN080136	-4.7013	-4.3198	-4.4846	9.6702e-02	8.7007e-01
84	PAN090136	-4.0027	-3.5449	-3.8120	9.6567e-02	8.7005e-01
85	PAN100136	-4.3180	-3.8602	-4.0632	1.0635e-01	8.7006e-01
86	PAN105136	-1.8541	-1.5490	-1.7214	8.6934e-02	8.7001e-01
87	PAN110136	-2.0206	-1.7155	-1.8391	6.8742e-02	8.7001e-01
88	PAN115136	-0.6924	-0.3109	-0.4986	8.0403e-02	8.7000e-01
89	PAN120136	-2.9370	-2.5555	-2.6944	8.3987e-02	8.7003e-01
90	PAN125136	-1.7062	-1.4010	-1.5429	9.2495e-02	8.7001e-01
91	PAN130136	-2.2723	-1.9672	-2.1182	7.3097e-02	8.7002e-01
92	PAN120048	-4.5663	-4.1848	-4.3435	1.0206e-01	8.7007e-01
93	PAN130048	-4.0000	-3.6948	-3.8871	8.4761e-02	8.7005e-01
94	PAN120224	-3.0826	-2.7775	-2.9194	8.0107e-02	8.7003e-01
95	PAN130224	-4.0938	-3.7886	-3.9534	8.6317e-02	8.7006e-01
96	PAN120312	-3.8125	-3.5073	-3.6263	8.3234e-02	8.7005e-01
97	PAN130312	-4.3134	-3.8556	-4.0952	1.0109e-01	8.7006e-01
98	PAB000136	40.3023	40.6227	40.4790	7.5139e-02	5.8876e-01
99	PAB100136	41.9839	42.1212	42.0754	3.9237e-02	5.8946e-01
100	PAB125136	42.3225	42.4598	42.4040	4.1658e-02	5.8961e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9808	40.4690	40.1956	1.2222e-01	7.5670e-01
102	PRV000001	19.6054	19.7274	19.6273	4.7374e-02	7.5160e-01
103	PSR000001	41.8692	41.9913	41.8839	4.0071e-02	7.5727e-01
104	PFM000001	14.5373	15.0866	14.7515	1.4868e-01	5.0136e-01
105	PAN000136	-48.7136	-42.7627	-46.0403	1.3822e+00	4.9213e+00
106	PFM000002	14.5654	15.0553	14.7651	1.1467e-01	2.0338e-01
107	EMPTY	-0.0049	0.0049	0.0029	3.4173e-03	0.0000e+00
108	EMPTY	-7.3633	-5.5518	-6.7449	3.8169e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0019	2.3941e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	100.7859	101.3719	101.0242	1.6408e-01	1.0117e+00
113	VPW000002	118.7453	119.1359	118.8468	1.0617e-01	1.0792e+00
114	VPW000003	146.0538	146.6397	146.3233	1.3606e-01	1.1945e+00
115	VPW000004	104.4569	105.0428	104.7967	1.1712e-01	1.0254e+00
116	VPW000005	139.1378	139.7238	139.4229	1.6838e-01	1.1644e+00
117	VPW000006	146.9103	147.6916	147.2540	1.7892e-01	1.1986e+00
118	IPW000001	532.1901	543.9042	540.9756	2.5024e+00	9.1583e+00
119	IPW000002	1309.3019	1315.1556	1312.2289	1.5891e+00	1.3156e+01
120	IPW000003	1332.9545	1344.6544	1336.5820	2.5535e+00	1.3308e+01
121	IPW000004	378.5063	381.9242	381.2307	7.8974e-01	3.6153e+00
122	IPW000005	254.5691	255.5455	255.0378	2.9526e-01	2.8389e+00
123	IPW000006	263.6719	266.6016	265.0098	6.0658e-01	2.8954e+00
124	EMPTY	-0.0293	-0.0146	-0.0223	4.0864e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.8334e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0189	4.0241e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0154	3.4681e-03	0.0000e+00
128	IHT000001	129.4381	132.1725	130.4967	5.6921e-01	4.3027e+00
129	IHT000002	133.1537	135.8881	134.1968	5.7671e-01	4.3140e+00
130	IHT000003	132.9538	135.1022	134.0045	5.0976e-01	4.3134e+00
131	IHT000004	131.2853	133.6291	132.3243	5.3298e-01	4.3082e+00
132	IHT000005	129.6428	131.9866	130.8107	5.1974e-01	4.3036e+00
133	IHT000006	124.8072	127.1509	125.8618	5.0378e-01	4.2888e+00
134	IHT000007	131.6006	134.1397	132.7608	4.9664e-01	4.3096e+00
135	IHT000008	130.2334	132.5772	131.4092	4.9519e-01	4.3054e+00
136	IHT000009	130.7394	133.0831	131.8487	5.0136e-01	4.3068e+00
137	IHT000010	132.9278	134.6856	133.7012	4.7344e-01	4.3125e+00
138	IHT000011	131.2500	133.3984	132.1641	4.9354e-01	4.3078e+00
139	IHT000012	128.8687	131.4078	129.8921	5.4040e-01	4.3008e+00
140	IHT000013	92.3688	94.7125	93.1343	5.0815e-01	4.2045e+00
141	IHT000014	128.0050	130.1534	128.8760	5.2824e-01	4.2978e+00
142	IHT000015	94.9172	97.2609	95.7766	5.2050e-01	4.2104e+00
143	IHT000016	88.2412	90.1944	89.2217	4.9045e-01	4.1960e+00
144	IHT000017	104.2969	107.6172	105.7109	7.5958e-01	4.2341e+00
145	IHT000018	-1.2072	1.3319	-0.2267	5.0761e-01	4.1000e+00
146	IHT000019	107.3419	109.0997	108.3692	4.3010e-01	4.2408e+00
147	IHT000020	105.9512	107.7091	106.8692	4.2909e-01	4.2370e+00
148	IHT000021	-0.6522	1.1056	0.2931	4.0503e-01	4.1000e+00
149	IHT000022	92.1075	94.4512	92.9551	4.5781e-01	4.2041e+00
150	IHT000023	105.5488	107.6972	106.4433	4.6369e-01	4.2359e+00
151	IHT000024	67.1069	68.8647	67.9116	4.0171e-01	4.1559e+00
152	IHT000025	103.3509	105.3041	104.3080	4.1244e-01	4.2306e+00
153	IHT000026	105.3134	107.4619	106.3838	4.6057e-01	4.2358e+00
154	IHT000027	89.3378	91.4863	90.4043	4.3083e-01	4.1985e+00
155	IHT000028	89.9944	92.5334	91.0725	4.9950e-01	4.1999e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0547	108.3984	106.9922	5.2497e-01	4.2373e+00
157	IHT000030	108.9044	111.2481	109.7520	5.2735e-01	4.2444e+00
158	IHT000031	106.7159	109.0597	107.5010	5.0761e-01	4.2386e+00
159	IHT000032	107.5019	109.6503	108.3964	5.5816e-01	4.2409e+00
160	IHT000033	-1.1966	0.7566	-0.4466	4.5739e-01	4.1000e+00
161	IHT000034	94.2959	96.2491	95.1943	5.1750e-01	4.2091e+00
162	IHT000035	124.0706	126.2191	125.2035	5.2497e-01	4.2869e+00
163	IHT000036	92.9688	94.9219	93.8086	5.1486e-01	4.2059e+00

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sum2

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Velocity 1 = 9.7782 (ft/sec) (+/- 3.8619 %)
 Velocity 2 = 9.7725 (ft/sec) (+/- 3.5243 %)
 Pressure drop = -1.6559 (psi)
 Tsat in = 268.1735 (deg F) Tsat out = 270.9366 (deg F)
 Phi inner = 100.7465 (kBtu/hr-ft2) (+/- 1.5696 %)
 Phi outer = 99.7514 (kBtu/hr-ft2) (+/- 1.5552 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.4434	76.0803	75.7121	1.5491e-01	1.9000e+00
1	TRF000002	75.9982	76.4207	76.1836	1.1914e-01	1.9000e+00
2	TFM000001	87.0908	87.9284	87.5864	1.9329e-01	1.9002e+00
3	TIN000001	87.0469	87.7816	87.4154	1.5913e-01	1.9002e+00
4	TRV000001	87.5157	88.1425	87.8447	1.6934e-01	1.9002e+00
5	TSR000001	127.9145	129.4325	128.5755	4.7683e-01	1.9023e+00
6	TAO020136	171.5582	172.2484	171.9766	1.9655e-01	1.9070e+00
7	TAO050136	146.1848	146.7849	146.4485	1.3792e-01	1.9039e+00
8	TAO070136	150.6570	151.5584	151.0457	1.9467e-01	1.9044e+00
9	TAO080136	157.0001	157.5943	157.2712	1.4264e-01	1.9051e+00
10	TAO090136	159.7678	160.6595	160.1439	2.0204e-01	1.9055e+00
11	TAO100136	160.6868	161.3799	160.9858	1.5331e-01	1.9056e+00
12	TAO105136	161.0012	161.8931	161.4464	1.8656e-01	1.9056e+00
13	EMPTY	41.2111	41.6693	41.3468	1.3967e-01	1.9012e+00
14	TAO115136	166.9264	167.8166	167.3708	2.3985e-01	1.9064e+00
15	EMPTY	33.8494	39.6057	38.0484	1.1204e+00	1.9010e+00
16	TAO125136	167.1687	167.7605	167.4164	1.3510e-01	1.9064e+00
17	TAO130136	156.8807	157.4746	157.1618	1.4577e-01	1.9051e+00
18	EMPTY	41.4403	41.8984	41.6179	1.0729e-01	1.9012e+00
19	TAO130048	165.2427	165.7362	165.5046	1.3131e-01	1.9061e+00
20	TAO120224	163.9136	164.4078	164.1537	1.1236e-01	1.9067e+00
21	EMPTY	39.1464	39.3761	39.1980	9.6806e-02	1.9017e+00
22	TAO120312	173.4608	174.3448	173.8740	1.6772e-01	1.9073e+00
23	TAO130312	165.6584	166.4469	166.0945	1.4652e-01	1.9062e+00
24	EMPTY	39.1464	39.8352	39.4323	1.8470e-01	1.9010e+00
25	TRT070000	144.3247	145.3342	144.9037	2.1379e-01	1.9038e+00
26	TRT100000	162.2708	163.1599	162.6823	1.9164e-01	1.9058e+00
27	TRT120000	171.8009	172.4892	172.1460	1.9347e-01	1.9070e+00
28	TRT125000	173.1199	173.9018	173.5509	2.0432e-01	1.9072e+00
29	EMPTY	39.8352	40.0646	39.9382	1.1532e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6900	2.4207e-01	1.9011e+00
31	TAF050136	107.5676	108.4937	108.1429	1.9120e-01	1.9010e+00
32	TAF070136	115.1852	116.3079	115.7889	2.6227e-01	1.9014e+00
33	TAF080136	118.7992	119.7145	119.2971	1.9597e-01	1.9016e+00
34	TAF090136	121.3211	122.3410	121.8791	2.2425e-01	1.9018e+00
35	TAF100136	124.7582	125.6753	125.3093	1.7997e-01	1.9021e+00
36	TAF105136	126.9179	127.7261	127.2400	2.3385e-01	1.9022e+00
37	TAF110136	128.5351	129.2440	128.9397	1.7165e-01	1.9023e+00
38	TAF115136	130.9436	131.8540	131.4372	2.2479e-01	1.9025e+00
39	TAF120136	132.7850	133.3898	133.1387	1.3840e-01	1.9027e+00
40	TAF125136	134.6323	135.3375	135.0184	1.5141e-01	1.9028e+00
41	TAF130136	136.2585	136.9650	136.6785	1.6773e-01	1.9030e+00
42	TAF120048	140.1463	141.4608	140.7160	2.7217e-01	1.9034e+00
43	TAF130048	142.4481	143.3520	142.7436	1.8035e-01	1.9036e+00
44	TAF120224	133.9242	134.9339	134.4022	2.2747e-01	1.9028e+00
45	TAF130224	136.5819	137.2905	136.9804	1.5097e-01	1.9030e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9646	1.9914e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2730	1.1540e-01	1.9010e+00
48	TAI130048	172.1202	173.2004	172.7192	2.8158e-01	1.9071e+00
49	EMPTY	37.9974	38.6870	38.2555	1.7949e-01	1.9010e+00
50	TAI130224	165.4079	166.4963	165.9493	2.6503e-01	1.9062e+00
51	EMPTY	40.2940	40.9819	40.7012	2.0003e-01	1.9011e+00
52	TRR130000	94.6778	98.2079	96.2888	7.1472e-01	1.9005e+00
53	TSI000001	51.1553	51.9107	51.5453	1.5544e-01	1.9002e+00
54	TSI000002	75.5220	77.6341	76.6041	5.7243e-01	1.9000e+00
55	TSO000001	49.6583	50.5274	50.1487	2.0452e-01	1.9003e+00
56	TSO000002	57.6432	58.6107	58.1763	2.1826e-01	1.9001e+00
57	TAF020136	94.5295	95.4731	94.9656	2.0779e-01	1.9004e+00
58	TAF120312	138.8868	139.6923	139.2382	2.0874e-01	1.9032e+00
59	TAF130312	142.6499	143.3526	142.8960	1.7631e-01	1.9036e+00
60	EMPTY	1.7773	1.7822	1.7804	2.3783e-03	0.0000e+00
61	EMPTY	1.7822	1.7871	1.7857	2.2287e-03	0.0000e+00
62	EMPTY	1.7871	1.7969	1.7891	2.6216e-03	0.0000e+00
63	EMPTY	1.7920	1.8018	1.7968	1.2165e-03	0.0000e+00
64	EMPTY	0.9131	0.9180	0.9172	1.8234e-03	0.0000e+00
65	EMPTY	0.9326	0.9375	0.9339	2.1781e-03	0.0000e+00
66	EMPTY	0.9473	0.9473	0.9473	0.0000e+00	0.0000e+00
67	EMPTY	0.9619	0.9668	0.9620	6.9754e-04	0.0000e+00
68	EMPTY	0.9717	0.9766	0.9724	1.7263e-03	0.0000e+00
69	EMPTY	0.9863	0.9912	0.9881	2.3783e-03	0.0000e+00
70	EMPTY	0.9961	1.0059	1.0011	1.2165e-03	0.0000e+00
71	EMPTY	1.0205	1.0254	1.0206	6.9754e-04	0.0000e+00
72	EMPTY	1.0303	1.0352	1.0315	2.1215e-03	0.0000e+00
73	EMPTY	1.0449	1.0547	1.0495	1.8400e-03	0.0000e+00
74	EMPTY	1.0596	1.0645	1.0611	2.2737e-03	0.0000e+00
75	EMPTY	1.0742	1.0791	1.0752	1.9883e-03	0.0000e+00
76	EMPTY	1.0840	1.0889	1.0885	1.3508e-03	0.0000e+00
77	EMPTY	1.1035	1.1035	1.1035	0.0000e+00	0.0000e+00
78	EMPTY	1.1182	1.1279	1.1231	1.2165e-03	0.0000e+00
79	EMPTY	1.1426	1.1475	1.1454	2.4414e-03	0.0000e+00
80	PAN020136	-6.0612	-5.2219	-5.7124	2.0065e-01	8.7012e-01
81	PAN050136	-11.9146	-10.9990	-11.4786	2.3099e-01	1.6802e+00
82	PAN070136	-6.6250	-5.8621	-6.2513	1.6646e-01	8.7014e-01
83	PAN080136	-4.6250	-4.0909	-4.4195	1.2861e-01	8.7007e-01
84	PAN090136	-4.0790	-3.6212	-3.8330	1.1259e-01	8.7005e-01
85	PAN100136	-4.3180	-3.7839	-4.0237	9.6001e-02	8.7006e-01
86	PAN105136	-1.9304	-1.5490	-1.7233	7.4688e-02	8.7001e-01
87	PAN110136	-1.9443	-1.6392	-1.8073	7.4654e-02	8.7001e-01
88	PAN115136	-0.6161	-0.3872	-0.4837	6.7481e-02	8.7000e-01
89	PAN120136	-2.8607	-2.4792	-2.6490	8.7079e-02	8.7003e-01
90	PAN125136	-1.7062	-1.4010	-1.5520	8.7392e-02	8.7001e-01
91	PAN130136	-2.2723	-1.9672	-2.1135	8.0677e-02	8.7002e-01
92	PAN120048	-4.6426	-4.1085	-4.3296	9.6310e-02	8.7007e-01
93	PAN130048	-4.0763	-3.6948	-3.9004	8.6994e-02	8.7005e-01
94	PAN120224	-3.0826	-2.7775	-2.9160	8.3392e-02	8.7003e-01
95	PAN130224	-4.1700	-3.7123	-3.9489	9.1134e-02	8.7006e-01
96	PAN120312	-3.8125	-3.3547	-3.5992	1.0210e-01	8.7005e-01
97	PAN130312	-4.4659	-3.9319	-4.1047	1.0764e-01	8.7006e-01
98	PAB000136	40.3938	40.7143	40.5433	6.3220e-02	5.8879e-01
99	PAB100136	42.0754	42.2127	42.1334	3.8271e-02	5.8949e-01
100	PAB125136	42.4140	42.5056	42.4579	3.6140e-02	5.8963e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1028	40.7132	40.4067	1.4555e-01	7.5677e-01
102	PRV000001	19.6054	19.7274	19.6128	2.9569e-02	7.5160e-01
103	PSR000001	41.8692	42.1134	41.9913	3.5239e-02	7.5731e-01
104	PFM000001	14.4457	14.9950	14.7671	1.2272e-01	5.0136e-01
105	PAN000136	-48.7136	-43.2205	-45.8456	1.4102e+00	4.9213e+00
106	PFM000002	14.5485	14.8864	14.7498	6.7211e-02	2.0337e-01
107	EMPTY	-0.0049	0.0049	0.0029	2.9765e-03	0.0000e+00
108	EMPTY	-7.4219	-5.5322	-6.7308	4.2123e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0012	2.1215e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	100.7859	101.3719	100.9892	1.4352e-01	1.0116e+00
113	VPW000002	118.5500	118.9406	118.7453	1.0548e-01	1.0788e+00
114	VPW000003	146.0538	146.4444	146.2650	1.3716e-01	1.1943e+00
115	VPW000004	104.4569	105.0428	104.7120	1.3928e-01	1.0251e+00
116	VPW000005	138.9425	139.5284	139.2135	1.4819e-01	1.1635e+00
117	VPW000006	146.9103	147.3009	147.1813	1.0409e-01	1.1983e+00
118	IPW000001	530.2378	538.0472	534.2620	1.9689e+00	9.1337e+00
119	IPW000002	1305.3993	1311.2531	1308.2666	1.7408e+00	1.3131e+01
120	IPW000003	1334.9044	1344.6544	1339.4808	2.1269e+00	1.3326e+01
121	IPW000004	376.5531	378.9945	377.6391	6.4797e-01	3.5917e+00
122	IPW000005	253.5926	255.5455	254.5990	4.0370e-01	2.8365e+00
123	IPW000006	264.1602	265.1367	264.6385	2.7277e-01	2.8932e+00
124	EMPTY	-0.0342	-0.0146	-0.0224	4.0996e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	3.1518e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0174	3.8602e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.4202e-03	0.0000e+00
128	IHT000001	129.6334	131.7819	130.6180	5.6376e-01	4.3030e+00
129	IHT000002	133.3491	135.6928	134.3297	5.4880e-01	4.3144e+00
130	IHT000003	132.9538	135.2975	134.1336	5.2432e-01	4.3138e+00
131	IHT000004	131.2853	133.4337	132.4930	5.4471e-01	4.3088e+00
132	IHT000005	129.8381	132.1819	130.9621	5.4157e-01	4.3041e+00
133	IHT000006	125.0025	127.1509	125.9790	5.5386e-01	4.2892e+00
134	IHT000007	131.7959	134.1397	132.8642	5.6255e-01	4.3099e+00
135	IHT000008	130.2334	132.5772	131.4810	5.2863e-01	4.3057e+00
136	IHT000009	130.7394	132.8878	131.8833	5.2740e-01	4.3069e+00
137	IHT000010	132.7325	135.4669	133.7768	5.3273e-01	4.3127e+00
138	IHT000011	131.2500	133.5938	132.1867	5.0110e-01	4.3078e+00
139	IHT000012	128.8687	131.0172	129.9090	4.6900e-01	4.3009e+00
140	IHT000013	91.9781	94.1266	93.1420	4.9948e-01	4.2045e+00
141	IHT000014	127.8097	130.1534	128.7941	4.9789e-01	4.2975e+00
142	IHT000015	94.7219	96.6750	95.7702	4.3067e-01	4.2104e+00
143	IHT000016	88.4366	89.9991	89.2696	4.0809e-01	4.1961e+00
144	IHT000017	104.4922	108.2031	106.3058	9.4849e-01	4.2356e+00
145	IHT000018	-1.0119	0.7459	-0.0353	4.0265e-01	4.1000e+00
146	IHT000019	107.5372	108.9044	108.2267	4.2023e-01	4.2404e+00
147	IHT000020	106.1466	107.7091	106.8680	3.9508e-01	4.2370e+00
148	IHT000021	-0.4569	1.1056	0.3523	3.8447e-01	4.1000e+00
149	IHT000022	92.1075	94.0606	93.0601	4.6259e-01	4.2043e+00
150	IHT000023	105.3534	107.3066	106.4337	4.9007e-01	4.2359e+00
151	IHT000024	66.7162	68.8647	67.8961	4.3847e-01	4.1558e+00
152	IHT000025	103.1556	105.1087	104.3474	4.4972e-01	4.2307e+00
153	IHT000026	105.3134	107.6572	106.4495	4.7787e-01	4.2359e+00
154	IHT000027	89.5331	91.6816	90.5894	4.7159e-01	4.1989e+00
155	IHT000028	90.5803	91.7522	91.1025	3.0464e-01	4.2000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.4453	107.8125	106.9834	3.2274e-01	4.2373e+00
157	IHT000030	109.0997	110.6622	109.7653	3.7805e-01	4.2444e+00
158	IHT000031	106.7159	108.4737	107.4732	3.8783e-01	4.2385e+00
159	IHT000032	107.6972	109.4550	108.3509	3.7938e-01	4.2408e+00
160	IHT000033	-1.1966	0.3659	-0.4233	3.3584e-01	4.1000e+00
161	IHT000034	94.2959	96.0537	95.1888	3.7822e-01	4.2090e+00
162	IHT000035	124.2659	126.0238	125.0751	4.1814e-01	4.2865e+00
163	IHT000036	92.9688	94.9219	93.8257	4.2346e-01	4.2060e+00

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Velocity 1 = 0.005100 (ft/sec)

Velocity 2 = 0.005100 (ft/sec)

Pressure Drop = 0.007100 (psi)

Tsat in = 0.094788 (deg F) Tsat out = 0.076508 (deg F)

Phi inner = 0.116798 (kBtu/hr-ft2) Phi outer = 0.639793 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0116	0.0153
1	TRF000002	0.0122	0.0160
2	TFM000001	0.0550	0.0628
3	TIN000001	0.0494	0.0565
4	TRV000001	0.0295	0.0336
5	TSR000001	0.1771	0.1379
6	TAO020136	0.0369	0.0215
7	TAO050136	0.1024	0.0699
8	TAO070136	0.0343	0.0227
9	TAO080136	0.0361	0.0230
10	TAO090136	0.0648	0.0405
11	TAO100136	0.0000	0.0000
12	TAO105136	0.0089	0.0055
13	EMPTY	0.0394	0.0954
14	TAO115136	0.0011	0.0007
15	EMPTY	0.3577	0.9314
16	TAO125136	0.0186	0.0111
17	TAO130136	0.0454	0.0289
18	EMPTY	0.0036	0.0087
19	TAO130048	0.0519	0.0314
20	TAO120224	0.0623	0.0379
21	EMPTY	0.0056	0.0143
22	TAO120312	0.0488	0.0281
23	TAO130312	0.0425	0.0256
24	EMPTY	0.0287	0.0728
25	TRT070000	0.0196	0.0135
26	TRT100000	0.0181	0.0111
27	TRT120000	0.0304	0.0177
28	TRT125000	0.0066	0.0038
29	EMPTY	0.0112	0.0281
30	EMPTY	0.0671	0.1688
31	TAF050136	0.0152	0.0141
32	TAF070136	0.0348	0.0300
33	TAF080136	0.0488	0.0409
34	TAF090136	0.0213	0.0175
35	TAF100136	0.0868	0.0692
36	TAF105136	0.1367	0.1073
37	TAF110136	0.0101	0.0078
38	TAF115136	0.0265	0.0202
39	TAF120136	0.0191	0.0143
40	TAF125136	0.0505	0.0374
41	TAF130136	0.0339	0.0248
42	TAF120048	0.0782	0.0556
43	TAF130048	0.0163	0.0114
44	TAF120224	0.1015	0.0755
45	TAF130224	0.0529	0.0386

#	Name	Abs Diff	%Diff
46	EMPTY	0.0684	0.1805
47	EMPTY	0.0163	0.0415
48	TAI130048	0.0552	0.0320
49	EMPTY	0.0144	0.0377
50	TAI130224	0.0625	0.0376
51	EMPTY	0.1136	0.2799
52	TRR130000	2.4125	2.5699
53	TSI000001	0.0164	0.0318
54	TSI000002	1.3505	1.7946
55	TSO000001	0.0185	0.0369
56	TSO000002	0.0023	0.0040
57	TAF020136	0.0067	0.0071
58	TAF120312	0.0352	0.0253
59	TAF130312	0.0532	0.0372
60	EMPTY	0.0007	0.0393
61	EMPTY	0.0002	0.0112
62	EMPTY	0.0005	0.0279
63	EMPTY	0.0007	0.0389
64	EMPTY	0.0010	0.1089
65	EMPTY	0.0014	0.1497
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0002	0.0208
68	EMPTY	0.0004	0.0411
69	EMPTY	0.0014	0.1415
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0009	0.0872
73	EMPTY	0.0002	0.0191
74	EMPTY	0.0002	0.0188
75	EMPTY	0.0006	0.0558
76	EMPTY	0.0006	0.0551
77	EMPTY	0.0005	0.0453
78	EMPTY	0.0005	0.0445
79	EMPTY	0.0007	0.0611
80	PAN020136	0.0466	0.8092
81	PAN050136	0.0728	0.6302
82	PAN070136	0.0060	0.0959
83	PAN080136	0.0651	1.4516
84	PAN090136	0.0210	0.5509
85	PAN100136	0.0395	0.9721
86	PAN105136	0.0019	0.1104
87	PAN110136	0.0318	1.7291
88	PAN115136	0.0149	2.9884
89	PAN120136	0.0454	1.6850
90	PAN125136	0.0091	0.5898
91	PAN130136	0.0047	0.2219
92	PAN120048	0.0139	0.3200
93	PAN130048	0.0133	0.3422
94	PAN120224	0.0034	0.1165
95	PAN130224	0.0045	0.1138
96	PAN120312	0.0271	0.7473
97	PAN130312	0.0095	0.2320
98	PAB000136	0.0643	0.1588
99	PAB100136	0.0580	0.1378
100	PAB125136	0.0539	0.1271

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2111	0.5252
102	PRV000001	0.0145	0.0739
103	PSR000001	0.1074	0.2564
104	PFM000001	0.0156	0.1058
105	PAN000136	0.1947	0.4229
106	PFM000002	0.0153	0.1036
107	EMPTY	0.0000	0.0000
108	EMPTY	0.0141	0.2090
109	EMPTY	0.0007	36.8421
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0350	0.0346
113	VPW000002	0.1015	0.0854
114	VPW000003	0.0583	0.0398
115	VPW000004	0.0847	0.0808
116	VPW000005	0.2094	0.1502
117	VPW000006	0.0727	0.0494
118	IPW000001	6.7136	1.2410
119	IPW000002	3.9623	0.3020
120	IPW000003	2.8988	0.2169
121	IPW000004	3.5916	0.9421
122	IPW000005	0.4388	0.1721
123	IPW000006	0.3713	0.1401
124	EMPTY	0.0001	0.4484
125	EMPTY	0.0004	2.8169
126	EMPTY	0.0015	7.9365
127	EMPTY	0.0005	3.2468
128	IHT000001	0.1213	0.0929
129	IHT000002	0.1329	0.0990
130	IHT000003	0.1291	0.0963
131	IHT000004	0.1687	0.1275
132	IHT000005	0.1514	0.1157
133	IHT000006	0.1172	0.0931
134	IHT000007	0.1034	0.0779
135	IHT000008	0.0718	0.0546
136	IHT000009	0.0346	0.0262
137	IHT000010	0.0756	0.0565
138	IHT000011	0.0226	0.0171
139	IHT000012	0.0169	0.0130
140	IHT000013	0.0077	0.0083
141	IHT000014	0.0819	0.0636
142	IHT000015	0.0064	0.0067
143	IHT000016	0.0479	0.0537
144	IHT000017	0.5949	0.5628
145	IHT000018	0.1914	84.4288
146	IHT000019	0.1425	0.1315
147	IHT000020	0.0012	0.0011
148	IHT000021	0.0592	20.1979
149	IHT000022	0.1050	0.1130
150	IHT000023	0.0096	0.0090
151	IHT000024	0.0155	0.0228
152	IHT000025	0.0394	0.0378
153	IHT000026	0.0657	0.0618
154	IHT000027	0.1851	0.2048
155	IHT000028	0.0300	0.0329

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0088	0.0082
157	IHT000030	0.0133	0.0121
158	IHT000031	0.0278	0.0259
159	IHT000032	0.0455	0.0420
160	IHT000033	0.0233	5.2172
161	IHT000034	0.0055	0.0058
162	IHT000035	0.1284	0.1025
163	IHT000036	0.0171	0.0182

Velocity 1 = 7.8505 (ft/sec) (+/- 4.3601 %)
 Velocity 2 = 7.8992 (ft/sec) (+/- 3.5956 %)
 Pressure drop = -2.9322 (psi)
 Tsat in = 268.0598 (deg F) Tsat out = 272.5237 (deg F)
 Phi inner = 100.8510 (kBtu/hr-ft2) (+/- 1.5693 %)
 Phi outer = 100.0504 (kBtu/hr-ft2) (+/- 1.5540 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.4434	76.0803	75.8171	1.6919e-01	1.9000e+00
1	TRF000002	75.9982	76.6320	76.2686	1.2832e-01	1.9000e+00
2	TFM000001	86.8814	87.8238	87.4345	1.8693e-01	1.9002e+00
3	TIN000001	86.8367	87.4666	87.2020	1.4736e-01	1.9002e+00
4	TRV000001	87.0985	87.9358	87.4795	2.3295e-01	1.9002e+00
5	TSR000001	132.0541	134.4723	133.2111	7.3112e-01	1.9027e+00
6	TAO020136	174.2166	175.1993	174.5549	2.1769e-01	1.9074e+00
7	TAO050136	156.8077	157.6008	157.2121	1.6863e-01	1.9051e+00
8	TAO070136	162.7372	163.5327	163.1671	2.0802e-01	1.9058e+00
9	TAO080136	171.2461	171.8351	171.5479	1.5711e-01	1.9069e+00
10	TAO090136	172.0798	172.9631	172.5037	2.2204e-01	1.9071e+00
11	TAO100136	174.6742	175.3608	175.0154	1.6842e-01	1.9074e+00
12	TAO105136	175.7852	176.5700	176.1895	2.0455e-01	1.9076e+00
13	EMPTY	41.2111	41.6693	41.3395	1.2386e-01	1.9012e+00
14	TAO115136	180.0335	181.1115	180.5001	2.4047e-01	1.9082e+00
15	EMPTY	32.4627	42.1273	37.4751	2.2237e+00	1.9009e+00
16	TAO125136	183.3012	183.8858	183.6012	1.4171e-01	1.9087e+00
17	TAO130136	171.5887	172.2740	171.9791	1.3575e-01	1.9070e+00
18	EMPTY	41.6693	42.1273	41.9258	8.8258e-02	1.9012e+00
19	TAO130048	181.0969	181.7798	181.3934	1.5760e-01	1.9083e+00
20	TAO120224	178.9457	179.9232	179.3719	1.9922e-01	1.9080e+00
21	EMPTY	39.1464	39.3761	39.2659	1.1589e-01	1.9010e+00
22	TAO120312	190.1573	190.8370	190.4720	1.5882e-01	1.9098e+00
23	TAO130312	181.9057	182.4909	182.1476	1.4775e-01	1.9085e+00
24	EMPTY	38.9168	39.6057	39.3439	2.1263e-01	1.9010e+00
25	TRT070000	156.5897	157.4898	157.0535	2.2270e-01	1.9051e+00
26	TRT100000	177.0900	177.7745	177.4028	2.1806e-01	1.9078e+00
27	TRT120000	188.6839	189.6546	189.0762	1.8181e-01	1.9095e+00
28	TRT125000	189.9883	191.0515	190.5139	1.7587e-01	1.9098e+00
29	EMPTY	39.8352	40.2940	40.0096	1.0931e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6975	2.1250e-01	1.9011e+00
31	TAF050136	112.3881	113.4122	112.9944	2.3579e-01	1.9012e+00
32	TAF070136	121.6881	122.8027	122.2350	2.5095e-01	1.9018e+00
33	TAF080136	126.2831	127.1912	126.8313	2.0328e-01	1.9022e+00
34	TAF090136	129.2493	130.6674	130.0595	3.2423e-01	1.9024e+00
35	TAF100136	133.7978	134.7082	134.3077	1.9387e-01	1.9028e+00
36	TAF105136	136.3583	137.1603	136.7504	2.0527e-01	1.9030e+00
37	TAF110136	138.5012	139.3048	138.7946	1.7085e-01	1.9032e+00
38	TAF115136	141.2106	142.3143	141.6802	2.2974e-01	1.9035e+00
39	TAF120136	143.4052	144.2064	143.7741	1.9224e-01	1.9037e+00
40	TAF125136	145.6247	146.6230	146.1798	1.9985e-01	1.9039e+00
41	TAF130136	147.9976	148.5976	148.3415	1.4022e-01	1.9041e+00
42	TAF120048	152.0496	153.7541	152.7911	3.1391e-01	1.9046e+00
43	TAF130048	155.0433	155.8392	155.3781	1.8510e-01	1.9049e+00
44	TAF120224	144.9849	145.9871	145.4461	2.7001e-01	1.9038e+00
45	TAF130224	148.5963	149.4990	148.9017	1.8353e-01	1.9042e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9882	2.1771e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3623	9.7417e-02	1.9010e+00
48	TAI130048	189.0145	189.9859	189.4694	2.7417e-01	1.9096e+00
49	EMPTY	37.9974	38.4572	38.2871	1.6622e-01	1.9010e+00
50	TAI130224	181.9438	182.8243	182.3311	2.5068e-01	1.9085e+00
51	EMPTY	40.5234	41.2111	40.8673	1.6209e-01	1.9011e+00
52	TRR130000	99.0364	102.4510	100.4408	8.3219e-01	1.9006e+00
53	TSI000001	51.4792	52.3421	51.9020	2.2311e-01	1.9002e+00
54	TSI000002	77.9500	80.1626	78.7557	4.5309e-01	1.9001e+00
55	TSO000001	49.7678	50.7431	50.2362	1.9656e-01	1.9003e+00
56	TSO000002	58.7179	59.5775	59.2206	2.1089e-01	1.9001e+00
57	TAF020136	96.4172	97.4628	96.8605	2.4786e-01	1.9005e+00
58	TAF120312	150.5168	151.8144	151.1876	2.8870e-01	1.9044e+00
59	TAF130312	155.5261	156.3214	155.8402	1.9715e-01	1.9050e+00
60	EMPTY	2.0898	2.0947	2.0921	2.4583e-03	0.0000e+00
61	EMPTY	2.0947	2.1094	2.0953	2.3428e-03	0.0000e+00
62	EMPTY	2.0947	2.0996	2.0963	2.3008e-03	0.0000e+00
63	EMPTY	2.0996	2.1094	2.1041	1.6624e-03	0.0000e+00
64	EMPTY	1.0449	1.0498	1.0497	6.9053e-04	0.0000e+00
65	EMPTY	1.0645	1.0693	1.0649	1.4797e-03	0.0000e+00
66	EMPTY	1.0742	1.0791	1.0790	6.9053e-04	0.0000e+00
67	EMPTY	1.0889	1.0938	1.0934	1.3381e-03	0.0000e+00
68	EMPTY	1.1035	1.1035	1.1035	0.0000e+00	0.0000e+00
69	EMPTY	1.1133	1.1182	1.1181	6.9053e-04	0.0000e+00
70	EMPTY	1.1279	1.1328	1.1282	1.1714e-03	0.0000e+00
71	EMPTY	1.1475	1.1523	1.1486	2.1065e-03	0.0000e+00
72	EMPTY	1.1572	1.1719	1.1596	2.9986e-03	0.0000e+00
73	EMPTY	1.1719	1.1768	1.1760	1.8082e-03	0.0000e+00
74	EMPTY	1.1865	1.1914	1.1866	6.9053e-04	0.0000e+00
75	EMPTY	1.1963	1.2012	1.2011	6.9053e-04	0.0000e+00
76	EMPTY	1.2061	1.2158	1.2109	9.8648e-04	0.0000e+00
77	EMPTY	1.2256	1.2305	1.2271	2.3008e-03	0.0000e+00
78	EMPTY	1.2451	1.2500	1.2453	9.6655e-04	0.0000e+00
79	EMPTY	1.2646	1.2695	1.2654	1.8082e-03	0.0000e+00
80	PAN020136	-10.4862	-9.7233	-10.0910	1.7688e-01	8.7037e-01
81	PAN050136	-20.1543	-19.3914	-19.7454	2.2536e-01	1.6807e+00
82	PAN070136	-12.4233	-11.8893	-12.2036	1.1803e-01	8.7053e-01
83	PAN080136	-6.9901	-6.6086	-6.7734	1.0495e-01	8.7016e-01
84	PAN090136	-6.7493	-6.3678	-6.5524	9.3872e-02	8.7015e-01
85	PAN100136	-6.8357	-6.4542	-6.6556	7.9735e-02	8.7016e-01
86	PAN105136	-3.1511	-2.9222	-3.0611	6.1055e-02	8.7003e-01
87	PAN110136	-3.4702	-3.1650	-3.2566	7.2297e-02	8.7004e-01
88	PAN115136	-2.3708	-2.0657	-2.2244	6.6903e-02	8.7002e-01
89	PAN120136	-3.9288	-3.6237	-3.7289	6.5195e-02	8.7005e-01
90	PAN125136	-3.3083	-3.0032	-3.1420	7.3422e-02	8.7004e-01
91	PAN130136	-3.4167	-3.1116	-3.3176	7.4322e-02	8.7004e-01
92	PAN120048	-7.1603	-6.7025	-6.9543	1.0137e-01	8.7017e-01
93	PAN130048	-6.8229	-6.3651	-6.5314	9.5875e-02	8.7015e-01
94	PAN120224	-6.0581	-5.7529	-5.9650	8.6220e-02	8.7013e-01
95	PAN130224	-6.7640	-6.4589	-6.6160	7.6154e-02	8.7016e-01
96	PAN120312	-6.4828	-6.1013	-6.2936	9.7777e-02	8.7014e-01
97	PAN130312	-6.8311	-6.5259	-6.6541	7.9257e-02	8.7016e-01
98	PAB000136	40.3481	40.5770	40.4662	5.7077e-02	5.8876e-01
99	PAB100136	42.8994	43.0825	42.9964	3.9928e-02	5.8988e-01
100	PAB125136	43.5126	43.6500	43.5923	4.3190e-02	5.9015e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1028	40.5911	40.4202	1.1827e-01	7.5678e-01
102	PRV000001	19.6054	19.7274	19.6493	5.9189e-02	7.5161e-01
103	PSR000001	43.2120	43.4562	43.3097	5.5146e-02	7.5778e-01
104	PFM000001	9.2272	9.7765	9.4744	1.0825e-01	5.0056e-01
105	PAN000136	-83.5037	-78.0105	-81.1782	1.1396e+00	4.9242e+00
106	PFM000002	9.4801	9.7673	9.5936	5.4829e-02	2.0143e-01
107	EMPTY	-0.0049	0.0049	-0.0033	3.0309e-03	0.0000e+00
108	EMPTY	-6.7041	-4.5361	-5.8317	4.6384e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0016	2.3008e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0009	1.8950e-03	0.0000e+00
112	VPW000001	100.3953	101.3719	100.9461	2.0764e-01	1.0114e+00
113	VPW000002	118.3547	118.9406	118.7140	1.2701e-01	1.0786e+00
114	VPW000003	145.8584	146.8350	146.3506	1.8609e-01	1.1946e+00
115	VPW000004	104.4569	105.4334	104.8397	1.9714e-01	1.0256e+00
116	VPW000005	138.7472	139.7238	139.2393	2.2405e-01	1.1636e+00
117	VPW000006	146.5197	147.4962	147.1173	2.1760e-01	1.1980e+00
118	IPW000001	532.1901	539.9995	535.8215	1.9726e+00	9.1394e+00
119	IPW000002	1307.3506	1317.1069	1312.5800	2.1023e+00	1.3158e+01
120	IPW000003	1334.9044	1342.7045	1339.6624	1.9761e+00	1.3327e+01
121	IPW000004	378.5063	381.4359	379.7170	6.9922e-01	3.6054e+00
122	IPW000005	253.1044	255.5455	254.4129	5.4421e-01	2.8354e+00
123	IPW000006	264.1602	266.6016	265.4492	5.1031e-01	2.8979e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	3.4400e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0157	2.2689e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0182	3.2777e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0183	4.0446e-03	0.0000e+00
128	IHT000001	129.2428	132.1725	130.4850	6.2110e-01	4.3026e+00
129	IHT000002	132.9584	135.8881	134.1499	5.7079e-01	4.3139e+00
130	IHT000003	132.7584	135.4928	133.9498	5.3996e-01	4.3133e+00
131	IHT000004	130.8947	133.6291	132.2814	5.9222e-01	4.3081e+00
132	IHT000005	129.4475	132.1819	130.8419	5.8262e-01	4.3037e+00
133	IHT000006	124.4166	127.1509	125.8071	6.0314e-01	4.2887e+00
134	IHT000007	131.6006	134.3350	132.7451	5.7590e-01	4.3095e+00
135	IHT000008	130.2334	132.7725	131.3389	5.4047e-01	4.3052e+00
136	IHT000009	130.7394	133.2784	131.7041	5.2558e-01	4.3063e+00
137	IHT000010	132.5372	134.4903	133.7168	5.1139e-01	4.3125e+00
138	IHT000011	131.0547	133.0078	131.9883	5.1037e-01	4.3072e+00
139	IHT000012	128.6734	130.6266	129.6734	5.0167e-01	4.3002e+00
140	IHT000013	91.9781	93.9313	93.0250	4.9088e-01	4.2042e+00
141	IHT000014	127.6144	129.5675	128.6221	5.2253e-01	4.2970e+00
142	IHT000015	94.7219	96.6750	95.7375	4.9126e-01	4.2103e+00
143	IHT000016	88.2412	89.9991	89.1201	4.6897e-01	4.1957e+00
144	IHT000017	104.6875	108.2031	106.7148	7.4753e-01	4.2366e+00
145	IHT000018	-0.8166	1.1366	0.0975	5.0446e-01	4.1000e+00
146	IHT000019	107.5372	109.4903	108.3496	4.7080e-01	4.2408e+00
147	IHT000020	106.1466	108.0997	106.9161	4.6423e-01	4.2371e+00
148	IHT000021	0.1291	1.6916	0.6525	3.7108e-01	4.1000e+00
149	IHT000022	92.3028	94.2559	93.1270	4.6903e-01	4.2044e+00
150	IHT000023	105.9394	107.5019	106.5214	4.1664e-01	4.2361e+00
151	IHT000024	67.1069	68.8647	67.9585	4.2820e-01	4.1559e+00
152	IHT000025	103.5462	105.3041	104.4134	3.9293e-01	4.2309e+00
153	IHT000026	105.7041	107.6572	106.5127	5.1752e-01	4.2361e+00
154	IHT000027	89.7284	92.0722	90.5996	5.7482e-01	4.1989e+00
155	IHT000028	90.1897	92.3381	91.0217	4.7484e-01	4.1998e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0547	108.5938	106.9102	4.9582e-01	4.2371e+00
157	IHT000030	108.9044	111.2481	109.7207	4.9393e-01	4.2443e+00
158	IHT000031	106.7159	108.6691	107.4073	4.6557e-01	4.2384e+00
159	IHT000032	107.5019	109.8456	108.2988	5.0662e-01	4.2406e+00
160	IHT000033	-1.3919	0.7566	-0.5755	4.6804e-01	4.1000e+00
161	IHT000034	94.2959	96.4444	95.0615	4.6159e-01	4.2088e+00
162	IHT000035	124.2659	126.0238	124.8910	4.5163e-01	4.2860e+00
163	IHT000036	92.9688	94.9219	93.7305	4.1992e-01	4.2058e+00

Velocity 1 = 7.8466 (ft/sec) (+/- 4.3615 %)
Velocity 2 = 7.8847 (ft/sec) (+/- 3.5964 %)
Pressure drop = -2.9541 (psi)
Tsats in = 268.1652 (deg F) Tsats out = 272.6422 (deg F)
Phi inner = 100.3355 (kBtu/hr-ft2) (+/- 1.5706 %)
Phi outer = 99.8949 (kBtu/hr-ft2) (+/- 1.5545 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.4434	76.0803	75.8377	1.7868e-01	1.9000e+00
1	TRF000002	75.9982	76.6320	76.3302	1.4301e-01	1.9000e+00
2	TFM000001	86.0441	86.9872	86.4652	1.8961e-01	1.9002e+00
3	TIN000001	85.8897	86.6260	86.2506	1.5472e-01	1.9002e+00
4	TRV000001	86.5769	87.4131	86.9482	1.7474e-01	1.9002e+00
5	TSR000001	135.1761	137.4870	136.2811	6.1185e-01	1.9030e+00
6	TAO020136	175.1992	175.8876	175.4686	1.8248e-01	1.9075e+00
7	TAO050136	156.2138	156.9091	156.5284	1.5059e-01	1.9050e+00
8	TAO070136	164.2281	165.1201	164.6674	1.7644e-01	1.9060e+00
9	TAO080136	175.3452	175.9324	175.6604	1.7065e-01	1.9075e+00
10	TAO090136	177.5602	178.4401	178.1147	2.1432e-01	1.9079e+00
11	TAO100136	174.3801	175.3607	174.7964	1.8834e-01	1.9074e+00
12	TAO105136	175.2952	176.3740	175.7196	2.1318e-01	1.9075e+00
13	EMPTY	40.9819	41.4403	41.2813	1.2554e-01	1.9011e+00
14	TAO115136	179.7391	180.7193	180.2373	2.2963e-01	1.9082e+00
15	EMPTY	32.2314	41.4403	36.8255	2.3064e+00	1.9009e+00
16	TAO125136	183.2041	183.7888	183.4785	1.4571e-01	1.9087e+00
17	TAO130136	171.6869	172.2740	171.9580	1.4824e-01	1.9070e+00
18	EMPTY	41.6693	42.1273	41.9077	1.1411e-01	1.9012e+00
19	TAO130048	179.8315	180.5146	180.1581	1.6375e-01	1.9082e+00
20	TAO120224	178.8479	179.5325	179.1991	1.6930e-01	1.9080e+00
21	EMPTY	39.1464	39.3761	39.2168	1.0693e-01	1.9010e+00
22	TAO120312	189.3806	190.0606	189.6740	1.5923e-01	1.9096e+00
23	TAO130312	181.0291	181.5179	181.1991	1.1751e-01	1.9083e+00
24	EMPTY	38.9168	39.6057	39.4229	2.1468e-01	1.9010e+00
25	TRT070000	155.7877	156.9875	156.3397	2.7997e-01	1.9050e+00
26	TRT100000	176.5042	177.3842	176.8715	2.0792e-01	1.9077e+00
27	TRT120000	187.8102	188.4903	188.1140	1.6314e-01	1.9094e+00
28	TRT125000	189.1212	189.8954	189.4018	1.7674e-01	1.9096e+00
29	EMPTY	39.8352	40.2940	39.9757	1.2229e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6993	2.1935e-01	1.9011e+00
31	TAF050136	111.4668	112.3901	111.9543	2.5833e-01	1.9012e+00
32	TAF070136	120.9776	122.0949	121.5373	2.5390e-01	1.9018e+00
33	TAF080136	125.8774	126.9911	126.4212	2.6127e-01	1.9021e+00
34	TAF090136	129.3502	130.3637	129.8839	2.4534e-01	1.9024e+00
35	TAF100136	133.5954	134.6078	134.1219	2.2909e-01	1.9028e+00
36	TAF105136	135.9581	137.1603	136.5647	2.6065e-01	1.9030e+00
37	TAF110136	138.1996	139.2048	138.6166	2.2089e-01	1.9032e+00
38	TAF115136	141.1109	142.0139	141.5794	2.2750e-01	1.9034e+00
39	TAF120136	143.4052	144.1071	143.7513	1.5707e-01	1.9037e+00
40	TAF125136	145.6247	146.4241	146.1447	1.8562e-01	1.9039e+00
41	TAF130136	147.9976	148.6975	148.3363	1.7414e-01	1.9041e+00
42	TAF120048	151.3455	152.8502	151.9556	2.8654e-01	1.9045e+00
43	TAF130048	154.0479	154.7454	154.5055	1.6250e-01	1.9048e+00
44	TAF120224	144.8855	145.8866	145.3677	2.1989e-01	1.9038e+00
45	TAF130224	148.5968	149.2981	148.9836	1.6883e-01	1.9042e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9317	2.0460e-01	1.9010e+00
47	EMPTY	39.1464	39.8352	39.3620	1.1864e-01	1.9010e+00
48	TAI130048	187.8497	189.0154	188.4463	2.6891e-01	1.9094e+00
49	EMPTY	37.9974	38.6870	38.2695	1.8576e-01	1.9010e+00
50	TAI130224	182.0416	182.9220	182.5046	2.5780e-01	1.9085e+00
51	EMPTY	40.7527	41.2111	41.0381	1.5887e-01	1.9011e+00
52	TRR130000	98.1036	101.1071	99.7872	7.6114e-01	1.9006e+00
53	TSI000001	51.3709	52.1267	51.7546	1.6925e-01	1.9002e+00
54	TSI000002	74.3597	76.4738	75.4211	4.0593e-01	1.9000e+00
55	TSO000001	49.7673	50.7431	50.1813	1.9517e-01	1.9003e+00
56	TSO000002	58.7179	59.4698	59.1388	1.9088e-01	1.9001e+00
57	TAF020136	95.2632	96.3106	95.8446	2.1273e-01	1.9004e+00
58	TAF120312	149.7181	150.9164	150.3621	3.1117e-01	1.9043e+00
59	TAF130312	154.4325	155.3282	154.9140	2.0839e-01	1.9049e+00
60	EMPTY	2.0654	2.0703	2.0674	2.4247e-03	0.0000e+00
61	EMPTY	2.0654	2.0752	2.0706	1.8400e-03	0.0000e+00
62	EMPTY	2.0703	2.0801	2.0732	2.6216e-03	0.0000e+00
63	EMPTY	2.0752	2.0850	2.0796	2.2826e-03	0.0000e+00
64	EMPTY	1.0352	1.0400	1.0398	9.7615e-04	0.0000e+00
65	EMPTY	1.0547	1.0596	1.0559	2.1215e-03	0.0000e+00
66	EMPTY	1.0693	1.0742	1.0694	6.9754e-04	0.0000e+00
67	EMPTY	1.0791	1.0889	1.0840	9.9670e-04	0.0000e+00
68	EMPTY	1.0889	1.0986	1.0938	9.9670e-04	0.0000e+00
69	EMPTY	1.1084	1.1084	1.1084	0.0000e+00	0.0000e+00
70	EMPTY	1.1182	1.1230	1.1199	2.3483e-03	0.0000e+00
71	EMPTY	1.1377	1.1426	1.1393	2.3135e-03	0.0000e+00
72	EMPTY	1.1475	1.1523	1.1508	2.2737e-03	0.0000e+00
73	EMPTY	1.1621	1.1670	1.1668	9.7615e-04	0.0000e+00
74	EMPTY	1.1768	1.1768	1.1768	0.0000e+00	0.0000e+00
75	EMPTY	1.1914	1.1963	1.1916	9.7615e-04	0.0000e+00
76	EMPTY	1.2012	1.2061	1.2015	1.1827e-03	0.0000e+00
77	EMPTY	1.2158	1.2207	1.2187	2.4247e-03	0.0000e+00
78	EMPTY	1.2354	1.2402	1.2367	2.2287e-03	0.0000e+00
79	EMPTY	1.2549	1.2598	1.2572	2.4621e-03	0.0000e+00
80	PAN020136	-10.4099	-9.7233	-10.1203	1.7270e-01	8.7037e-01
81	PAN050136	-20.1543	-19.2388	-19.8086	1.9889e-01	1.6807e+00
82	PAN070136	-12.4996	-11.8893	-12.2054	1.1860e-01	8.7053e-01
83	PAN080136	-6.9901	-6.6849	-6.8188	1.0508e-01	8.7017e-01
84	PAN090136	-7.0544	-6.6730	-6.8956	7.6034e-02	8.7017e-01
85	PAN100136	-6.5305	-6.2253	-6.3764	7.5479e-02	8.7015e-01
86	PAN105136	-3.1511	-2.9222	-3.0219	7.1712e-02	8.7003e-01
87	PAN110136	-3.3939	-3.0887	-3.2491	6.6520e-02	8.7004e-01
88	PAN115136	-2.2946	-1.9894	-2.1622	6.9255e-02	8.7002e-01
89	PAN120136	-3.9288	-3.5474	-3.7171	6.8355e-02	8.7005e-01
90	PAN125136	-3.3083	-3.0032	-3.1168	7.6488e-02	8.7003e-01
91	PAN130136	-3.4167	-3.1116	-3.2984	7.7962e-02	8.7004e-01
92	PAN120048	-7.0840	-6.7788	-6.9439	7.8406e-02	8.7017e-01
93	PAN130048	-6.6703	-6.4414	-6.5302	6.4863e-02	8.7015e-01
94	PAN120224	-6.0581	-5.8292	-5.9460	7.6456e-02	8.7013e-01
95	PAN130224	-6.7640	-6.3826	-6.5725	8.5473e-02	8.7016e-01
96	PAN120312	-6.4065	-6.1013	-6.2555	8.1653e-02	8.7014e-01
97	PAN130312	-6.7548	-6.5259	-6.6411	7.1574e-02	8.7016e-01
98	PAB000136	40.3938	40.6685	40.5377	5.8354e-02	5.8879e-01
99	PAB100136	42.9909	43.1740	43.0993	5.7368e-02	5.8992e-01
100	PAB125136	43.5584	43.7873	43.6780	6.5286e-02	5.9019e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2249	40.7132	40.4740	1.0261e-01	7.5679e-01
102	PRV000001	19.7274	19.8495	19.8420	2.9569e-02	7.5164e-01
103	PSR000001	43.3341	43.4562	43.4063	6.0619e-02	7.5781e-01
104	PFM000001	9.2272	9.6850	9.4664	1.0541e-01	5.0056e-01
105	PAN000136	-83.9614	-78.9260	-81.7847	1.0043e+00	4.9242e+00
106	PFM000002	9.3956	9.6828	9.5597	6.3495e-02	2.0142e-01
107	EMPTY	-0.0049	0.0049	0.0012	3.7993e-03	0.0000e+00
108	EMPTY	-7.0215	-4.1016	-6.1848	7.2717e-01	0.0000e+00
109	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.7615e-04	0.0000e+00
112	VPW000001	100.7859	101.3719	101.0849	1.3869e-01	1.0119e+00
113	VPW000002	118.5500	119.1359	118.8250	1.1219e-01	1.0791e+00
114	VPW000003	146.0538	146.6397	146.3646	1.3764e-01	1.1947e+00
115	VPW000004	104.6522	105.2381	104.8913	1.2774e-01	1.0258e+00
116	VPW000005	139.1378	139.5284	139.2892	1.3963e-01	1.1639e+00
117	VPW000006	147.1056	147.4962	147.2531	1.2938e-01	1.1986e+00
118	IPW000001	536.0948	541.9518	539.1230	1.3840e+00	9.1515e+00
119	IPW000002	1295.6429	1301.4967	1299.5454	1.5426e+00	1.3077e+01
120	IPW000003	1329.0544	1334.9044	1331.4419	1.2116e+00	1.3276e+01
121	IPW000004	383.3891	384.8539	383.9868	3.1934e-01	3.6335e+00
122	IPW000005	254.0808	255.5455	254.9278	3.5622e-01	2.8383e+00
123	IPW000006	264.1602	266.1133	265.0869	3.8916e-01	2.8958e+00
124	EMPTY	-0.0293	-0.0146	-0.0209	3.8602e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.6828e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0165	3.4261e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0165	3.4261e-03	0.0000e+00
128	IHT000001	129.8288	131.5866	130.6259	4.4723e-01	4.3031e+00
129	IHT000002	133.3491	135.3022	134.2420	4.4752e-01	4.3142e+00
130	IHT000003	133.3444	135.1022	134.0738	4.1196e-01	4.3137e+00
131	IHT000004	131.6759	133.4337	132.4332	4.2871e-01	4.3086e+00
132	IHT000005	130.0334	131.9866	130.9461	4.1888e-01	4.3040e+00
133	IHT000006	125.0025	126.7603	125.8913	3.8666e-01	4.2889e+00
134	IHT000007	131.9913	133.5538	132.7844	3.8532e-01	4.3097e+00
135	IHT000008	130.6241	131.9913	131.4332	3.6756e-01	4.3055e+00
136	IHT000009	130.9347	132.6925	131.8354	4.3090e-01	4.3067e+00
137	IHT000010	132.7325	135.0762	133.7489	5.6940e-01	4.3126e+00
138	IHT000011	131.2500	133.2031	132.0950	5.3694e-01	4.3075e+00
139	IHT000012	128.8687	131.0172	129.8253	5.3821e-01	4.3006e+00
140	IHT000013	92.1734	94.5172	93.1858	5.3291e-01	4.2046e+00
141	IHT000014	127.8097	130.1534	128.7583	5.2286e-01	4.2974e+00
142	IHT000015	94.9172	97.0656	95.8380	5.2589e-01	4.2105e+00
143	IHT000016	88.4366	90.5850	89.2417	5.0214e-01	4.1960e+00
144	IHT000017	105.8594	108.2031	107.0871	5.3191e-01	4.2375e+00
145	IHT000018	-0.6212	1.1366	0.0404	4.1779e-01	4.1000e+00
146	IHT000019	107.5372	109.2950	108.3862	4.0960e-01	4.2408e+00
147	IHT000020	106.1466	107.9044	106.8999	4.2380e-01	4.2371e+00
148	IHT000021	-0.2616	1.4963	0.6472	4.0570e-01	4.1000e+00
149	IHT000022	92.4981	93.8653	93.0641	4.0900e-01	4.2043e+00
150	IHT000023	105.7441	107.3066	106.4177	4.0670e-01	4.2359e+00
151	IHT000024	67.1069	68.4741	67.8483	3.8443e-01	4.1558e+00
152	IHT000025	103.5462	105.1087	104.3355	3.9860e-01	4.2307e+00
153	IHT000026	105.5088	107.2666	106.4335	4.0614e-01	4.2359e+00
154	IHT000027	89.9238	91.4863	90.5615	3.6708e-01	4.1988e+00
155	IHT000028	90.3850	92.3381	91.2380	4.8615e-01	4.2003e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2500	108.2031	107.1588	4.7767e-01	4.2377e+00
157	IHT000030	108.9044	111.0528	109.9247	4.9517e-01	4.2448e+00
158	IHT000031	106.9112	108.8644	107.6406	5.0394e-01	4.2389e+00
159	IHT000032	107.6972	110.0409	108.5981	5.6073e-01	4.2414e+00
160	IHT000033	-1.1966	0.9519	-0.3476	4.6588e-01	4.1000e+00
161	IHT000034	94.4912	96.8350	95.3761	4.8354e-01	4.2095e+00
162	IHT000035	124.2659	126.4144	125.1788	5.2345e-01	4.2868e+00
163	IHT000036	92.9688	95.3125	93.9971	4.8954e-01	4.2064e+00

Velocity 1 = 0.003900 (ft/sec)
 Velocity 2 = 0.014500 (ft/sec)
 Pressure Drop = 0.021900 (psi)
 Tsat in = 0.105377 (deg F) Tsat out = 0.118500 (deg F)
 Phi inner = 0.515495 (kBtu/hr-ft2) Phi outer = 0.155502 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0206	0.0272
1	TRF000002	0.0616	0.0808
2	TFM000001	0.9693	1.1086
3	TIN000001	0.9514	1.0910
4	TRV000001	0.5313	0.6073
5	TSR000001	3.0700	2.3046
6	TAO020136	0.9137	0.5234
7	TAO050136	0.6837	0.4349
8	TAO070136	1.5003	0.9195
9	TAO080136	4.1125	2.3973
10	TAO090136	5.6110	3.2527
11	TAO100136	0.2190	0.1251
12	TAO105136	0.4699	0.2667
13	EMPTY	0.0582	0.1408
14	TAO115136	0.2628	0.1456
15	EMPTY	0.6496	1.7334
16	TAO125136	0.1227	0.0668
17	TAO130136	0.0211	0.0123
18	EMPTY	0.0181	0.0432
19	TAO130048	1.2353	0.6810
20	TAO120224	0.1728	0.0963
21	EMPTY	0.0491	0.1250
22	TAO120312	0.7980	0.4190
23	TAO130312	0.9485	0.5207
24	EMPTY	0.0790	0.2008
25	TRT070000	0.7138	0.4545
26	TRT100000	0.5313	0.2995
27	TRT120000	0.9622	0.5089
28	TRT125000	1.1121	0.5837
29	EMPTY	0.0339	0.0847
30	EMPTY	0.0018	0.0045
31	TAF050136	1.0401	0.9205
32	TAF070136	0.6977	0.5708
33	TAF080136	0.4101	0.3233
34	TAF090136	0.1756	0.1350
35	TAF100136	0.1858	0.1383
36	TAF105136	0.1857	0.1358
37	TAF110136	0.1780	0.1283
38	TAF115136	0.1008	0.0711
39	TAF120136	0.0228	0.0159
40	TAF125136	0.0351	0.0240
41	TAF130136	0.0052	0.0035
42	TAF120048	0.8355	0.5468
43	TAF130048	0.8726	0.5616
44	TAF120224	0.0784	0.0539
45	TAF130224	0.0819	0.0550

#	Name	Abs Diff	%Diff
46	EMPTY	0.0565	0.1487
47	EMPTY	0.0003	0.0008
48	TAI130048	1.0231	0.5400
49	EMPTY	0.0176	0.0460
50	TAI130224	0.1735	0.0952
51	EMPTY	0.1708	0.4179
52	TRR130000	0.6536	0.6507
53	TSI000001	0.1474	0.2840
54	TSI000002	3.3346	4.2341
55	TSO000001	0.0549	0.1093
56	TSO000002	0.0818	0.1381
57	TAF020136	1.0159	1.0488
58	TAF120312	0.8255	0.5460
59	TAF130312	0.9262	0.5943
60	EMPTY	0.0247	1.1806
61	EMPTY	0.0247	1.1788
62	EMPTY	0.0231	1.1019
63	EMPTY	0.0245	1.1644
64	EMPTY	0.0099	0.9431
65	EMPTY	0.0090	0.8452
66	EMPTY	0.0096	0.8897
67	EMPTY	0.0094	0.8597
68	EMPTY	0.0097	0.8790
69	EMPTY	0.0097	0.8675
70	EMPTY	0.0083	0.7357
71	EMPTY	0.0093	0.8097
72	EMPTY	0.0088	0.7589
73	EMPTY	0.0092	0.7823
74	EMPTY	0.0098	0.8259
75	EMPTY	0.0095	0.7909
76	EMPTY	0.0094	0.7763
77	EMPTY	0.0084	0.6845
78	EMPTY	0.0086	0.6906
79	EMPTY	0.0082	0.6480
80	PAN020136	0.0293	0.2904
81	PAN050136	0.0632	0.3201
82	PAN070136	0.0018	0.0148
83	PAN080136	0.0454	0.6703
84	PAN090136	0.3432	5.2378
85	PAN100136	0.2792	4.1950
86	PAN105136	0.0392	1.2806
87	PAN110136	0.0075	0.2303
88	PAN115136	0.0622	2.7963
89	PAN120136	0.0118	0.3164
90	PAN125136	0.0252	0.8020
91	PAN130136	0.0192	0.5787
92	PAN120048	0.0104	0.1495
93	PAN130048	0.0012	0.0184
94	PAN120224	0.0190	0.3185
95	PAN130224	0.0435	0.6575
96	PAN120312	0.0381	0.6054
97	PAN130312	0.0130	0.1954
98	PAB000136	0.0715	0.1767
99	PAB100136	0.1029	0.2393
100	PAB125136	0.0857	0.1966

#	Name	Abs Diff	%Diff
101	PIN000001	0.0538	0.1331
102	PRV000001	0.1927	0.9807
103	PSR000001	0.0966	0.2230
104	PFM000001	0.0080	0.0844
105	PAN000136	0.6065	0.7471
106	PFM000002	0.0339	0.3534
107	EMPTY	0.0045	136.3636
108	EMPTY	0.3531	6.0548
109	EMPTY	0.0016	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0007	77.7778
112	VPW000001	0.1388	0.1375
113	VPW000002	0.1110	0.0935
114	VPW000003	0.0140	0.0096
115	VPW000004	0.0516	0.0492
116	VPW000005	0.0499	0.0358
117	VPW000006	0.1358	0.0923
118	IPW000001	3.3015	0.6162
119	IPW000002	13.0345	0.9930
120	IPW000003	8.2205	0.6136
121	IPW000004	4.2698	1.1245
122	IPW000005	0.5149	0.2024
123	IPW000006	0.3623	0.1365
124	EMPTY	0.0008	3.6866
125	EMPTY	0.0015	9.5541
126	EMPTY	0.0017	9.3407
127	EMPTY	0.0018	9.8361
128	IHT000001	0.1409	0.1080
129	IHT000002	0.0921	0.0687
130	IHT000003	0.1240	0.0926
131	IHT000004	0.1518	0.1148
132	IHT000005	0.1042	0.0796
133	IHT000006	0.0842	0.0669
134	IHT000007	0.0393	0.0296
135	IHT000008	0.0943	0.0718
136	IHT000009	0.1313	0.0997
137	IHT000010	0.0321	0.0240
138	IHT000011	0.1067	0.0808
139	IHT000012	0.1519	0.1171
140	IHT000013	0.1608	0.1729
141	IHT000014	0.1362	0.1059
142	IHT000015	0.1005	0.1050
143	IHT000016	0.1216	0.1364
144	IHT000017	0.3723	0.3489
145	IHT000018	0.0571	58.5641
146	IHT000019	0.0366	0.0338
147	IHT000020	0.0162	0.0151
148	IHT000021	0.0053	0.8123
149	IHT000022	0.0629	0.0675
150	IHT000023	0.1037	0.0974
151	IHT000024	0.1102	0.1622
152	IHT000025	0.0779	0.0746
153	IHT000026	0.0792	0.0744
154	IHT000027	0.0381	0.0421
155	IHT000028	0.2163	0.2376

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2486	0.2325
157	IHT000030	0.2040	0.1859
158	IHT000031	0.2333	0.2172
159	IHT000032	0.2993	0.2764
160	IHT000033	0.2279	39.6003
161	IHT000034	0.3146	0.3309
162	IHT000035	0.2878	0.2304
163	IHT000036	0.2666	0.2844

Velocity 1 = 5.8666 (ft/sec) (+/- 5.8926 %)
Velocity 2 = 5.8988 (ft/sec) (+/- 3.8629 %)
Pressure drop = -3.9646 (psi)
Tsats in = 268.2082 (deg F) Tsats out = 274.0817 (deg F)
Phi inner = 99.1401 (kBtu/hr-ft2) (+/- 1.5737 %)
Phi outer = 100.1744 (kBtu/hr-ft2) (+/- 1.5522 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.6557	76.2926	76.0506	1.7687e-01	1.9000e+00
1	TRF000002	76.2095	76.8431	76.5179	1.2950e-01	1.9000e+00
2	TFM000001	85.5202	86.5689	85.9566	2.2850e-01	1.9002e+00
3	TIN000001	85.5740	86.1005	85.7972	1.4353e-01	1.9002e+00
4	TRV000001	85.8465	86.6836	86.2772	1.8140e-01	1.9002e+00
5	TSR000001	142.7959	145.6938	144.6025	7.1560e-01	1.9037e+00
6	TAO020136	180.6937	181.5744	181.1165	2.0014e-01	1.9083e+00
7	TAO050136	174.1032	175.0816	174.5613	2.0965e-01	1.9074e+00
8	TAO070136	182.0854	183.0639	182.4575	2.1491e-01	1.9085e+00
9	TAO080136	188.4429	189.1205	188.8292	1.8551e-01	1.9095e+00
10	TAO090136	193.8761	194.6499	194.2401	1.8064e-01	1.9104e+00
11	TAO100136	198.2941	199.2582	198.7879	1.8033e-01	1.9111e+00
12	TAO105136	200.0876	200.9555	200.5700	1.8371e-01	1.9115e+00
13	EMPTY	40.9819	41.4403	41.2936	1.2036e-01	1.9011e+00
14	TAO115136	206.5673	207.4328	207.0480	2.3246e-01	1.9126e+00
15	EMPTY	31.7686	42.5851	38.2981	2.3354e+00	1.9010e+00
16	TAO125136	209.4108	210.1760	209.7971	1.6286e-01	1.9131e+00
17	TAO130136	195.7031	196.3745	196.0061	1.3354e-01	1.9107e+00
18	EMPTY	41.2111	41.8984	41.5090	2.0827e-01	1.9012e+00
19	TAO130048	208.1880	208.7618	208.4675	1.3383e-01	1.9129e+00
20	TAO120224	204.3248	204.9972	204.6358	1.5234e-01	1.9122e+00
21	EMPTY	39.1464	39.3761	39.2199	1.0821e-01	1.9010e+00
22	TAO120312	218.3282	218.9951	218.5686	1.8380e-01	1.9148e+00
23	TAO130312	208.9007	209.3800	209.0927	1.2074e-01	1.9130e+00
24	EMPTY	39.1464	39.8352	39.3807	1.7657e-01	1.9010e+00
25	TRT070000	175.8671	176.9520	176.2742	2.5548e-01	1.9076e+00
26	TRT100000	201.0024	201.9630	201.4286	1.8732e-01	1.9116e+00
27	TRT120000	217.2177	218.2654	217.6524	2.3566e-01	1.9146e+00
28	TRT125000	218.8107	219.5697	219.1034	1.6565e-01	1.9149e+00
29	EMPTY	39.8352	40.2940	40.0096	1.0931e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7158	1.9254e-01	1.9011e+00
31	TAF050136	119.8395	121.4671	120.5032	3.3487e-01	1.9017e+00
32	TAF070136	132.2840	133.4915	132.9683	2.9668e-01	1.9027e+00
33	TAF080136	138.4254	139.6258	138.9779	2.7807e-01	1.9032e+00
34	TAF090136	142.9575	144.2609	143.5514	3.4017e-01	1.9036e+00
35	TAF100136	148.6936	149.6944	149.2222	2.2054e-01	1.9042e+00
36	TAF105136	151.8760	152.8669	152.3552	2.4532e-01	1.9046e+00
37	TAF110136	154.7492	155.6424	155.2099	1.9622e-01	1.9049e+00
38	TAF115136	158.4458	159.6339	158.9723	2.8317e-01	1.9053e+00
39	TAF120136	161.1533	162.1404	161.5915	2.0931e-01	1.9056e+00
40	TAF125136	164.4060	165.2911	164.7201	1.7999e-01	1.9060e+00
41	TAF130136	166.9449	167.9301	167.5121	2.2038e-01	1.9064e+00
42	TAF120048	172.7786	174.4585	173.8304	3.6132e-01	1.9072e+00
43	TAF130048	177.1521	177.9360	177.5599	2.0696e-01	1.9078e+00
44	TAF120224	162.5945	163.8801	163.1961	3.0211e-01	1.9058e+00
45	TAF130224	167.5615	168.5520	168.0642	2.1440e-01	1.9065e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.3074	38.2273	37.9146	2.3119e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3853	1.0331e-01	1.9010e+00
48	TAI130048	216.5224	217.4751	217.0253	2.1003e-01	1.9145e+00
49	EMPTY	37.7675	38.6870	38.2411	1.9928e-01	1.9010e+00
50	TAI130224	207.1640	208.4130	207.8793	3.0835e-01	1.9128e+00
51	EMPTY	40.7527	41.4403	41.0828	1.8613e-01	1.9011e+00
52	TRR130000	109.2538	111.1031	110.1372	4.3440e-01	1.9011e+00
53	TSI000001	51.3720	52.2351	51.7992	1.7565e-01	1.9002e+00
54	TSI000002	74.2545	75.9457	75.1806	3.7578e-01	1.9000e+00
55	TSO000001	49.3318	50.4169	49.9002	2.2101e-01	1.9003e+00
56	TSO000002	60.2204	60.9720	60.6243	2.1191e-01	1.9001e+00
57	TAF020136	98.4054	99.4515	98.8859	2.3890e-01	1.9006e+00
58	TAF120312	170.8295	172.0088	171.3013	2.8651e-01	1.9069e+00
59	TAF130312	177.6003	178.6761	178.0385	2.0652e-01	1.9078e+00
60	EMPTY	2.6270	2.6367	2.6309	2.6100e-03	0.0000e+00
61	EMPTY	2.6221	2.6318	2.6284	2.4662e-03	0.0000e+00
62	EMPTY	2.6221	2.6318	2.6269	1.2041e-03	0.0000e+00
63	EMPTY	2.6270	2.6318	2.6316	9.6655e-04	0.0000e+00
64	EMPTY	1.2793	1.2842	1.2838	1.3381e-03	0.0000e+00
65	EMPTY	1.2939	1.3086	1.2987	1.8429e-03	0.0000e+00
66	EMPTY	1.3086	1.3135	1.3090	1.3381e-03	0.0000e+00
67	EMPTY	1.3232	1.3232	1.3232	0.0000e+00	0.0000e+00
68	EMPTY	1.3281	1.3330	1.3320	1.9730e-03	0.0000e+00
69	EMPTY	1.3428	1.3477	1.3432	1.3381e-03	0.0000e+00
70	EMPTY	1.3525	1.3574	1.3554	2.4344e-03	0.0000e+00
71	EMPTY	1.3721	1.3867	1.3728	2.4184e-03	0.0000e+00
72	EMPTY	1.3818	1.3867	1.3820	9.6655e-04	0.0000e+00
73	EMPTY	1.3965	1.3965	1.3965	0.0000e+00	0.0000e+00
74	EMPTY	1.4063	1.4160	1.4067	1.7784e-03	0.0000e+00
75	EMPTY	1.4160	1.4209	1.4207	9.6655e-04	0.0000e+00
76	EMPTY	1.4258	1.4307	1.4306	6.9053e-04	0.0000e+00
77	EMPTY	1.4404	1.4453	1.4450	1.1714e-03	0.0000e+00
78	EMPTY	1.4600	1.4648	1.4620	2.4344e-03	0.0000e+00
79	EMPTY	1.4795	1.4844	1.4823	2.4344e-03	0.0000e+00
80	PAN020136	-14.2246	-13.5380	-13.8401	1.5791e-01	8.7069e-01
81	PAN050136	-27.0208	-26.2578	-26.6057	1.7986e-01	1.6813e+00
82	PAN070136	-17.3824	-16.9247	-17.1566	9.2431e-02	8.7106e-01
83	PAN080136	-9.1263	-8.7449	-8.9081	9.3771e-02	8.7028e-01
84	PAN090136	-8.8855	-8.5803	-8.7527	8.9625e-02	8.7028e-01
85	PAN100136	-9.0482	-8.6667	-8.8819	7.6589e-02	8.7028e-01
86	PAN105136	-4.3718	-4.0667	-4.2192	7.3922e-02	8.7006e-01
87	PAN110136	-4.8435	-4.3857	-4.5963	1.1068e-01	8.7008e-01
88	PAN115136	-4.8885	-3.4390	-4.1454	4.1811e-01	8.7006e-01
89	PAN120136	-4.9969	-3.7762	-4.4492	4.1264e-01	8.7007e-01
90	PAN125136	-3.9187	-3.4609	-3.7005	9.2495e-02	8.7005e-01
91	PAN130136	-4.5612	-4.1797	-4.3811	7.3535e-02	8.7007e-01
92	PAN120048	-9.7543	-9.2202	-9.5422	9.5378e-02	8.7033e-01
93	PAN130048	-8.4250	-8.1199	-8.3045	7.2444e-02	8.7025e-01
94	PAN120224	-8.5758	-8.3469	-8.4690	7.0634e-02	8.7026e-01
95	PAN130224	-8.3662	-8.0610	-8.2792	8.4438e-02	8.7025e-01
96	PAN120312	-9.0005	-8.6190	-8.7853	7.9631e-02	8.7028e-01
97	PAN130312	-8.5858	-8.2806	-8.4271	6.5104e-02	8.7026e-01
98	PAB000136	40.4396	40.7143	40.5669	6.5584e-02	5.8880e-01
99	PAB100136	43.8149	43.9980	43.9202	4.6472e-02	5.9030e-01
100	PAB125136	44.6571	44.7944	44.7303	4.0312e-02	5.9068e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9808	40.3470	40.2151	1.1258e-01	7.5671e-01
102	PRV000001	19.3612	19.4833	19.4760	2.9284e-02	7.5158e-01
103	PSR000001	44.4327	44.6769	44.5377	4.9385e-02	7.5822e-01
104	PFM000001	5.0158	5.4735	5.2501	1.0489e-01	5.0017e-01
105	PAN000136	-112.3428	-106.8496	-109.7610	1.0453e+00	4.9276e+00
106	PFM000002	5.2396	5.3916	5.3088	3.5676e-02	2.0044e-01
107	EMPTY	0.0000	0.0049	0.0044	1.4797e-03	0.0000e+00
108	EMPTY	-7.6953	-4.0430	-6.2840	8.3503e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0021	2.4344e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	100.9812	101.5672	101.2391	1.5999e-01	1.0125e+00
113	VPW000002	118.7453	119.1359	118.9718	1.2701e-01	1.0797e+00
114	VPW000003	146.2491	146.6397	146.4639	1.4363e-01	1.1951e+00
115	VPW000004	104.6522	105.2381	104.9413	1.4358e-01	1.0259e+00
116	VPW000005	139.1378	139.7238	139.4307	1.6857e-01	1.1645e+00
117	VPW000006	146.9103	147.6916	147.3478	1.4530e-01	1.1990e+00
118	IPW000001	551.7136	561.4753	556.8288	2.1922e+00	9.2174e+00
119	IPW000002	1285.8866	1295.6429	1290.7649	2.0953e+00	1.3023e+01
120	IPW000003	1311.5044	1317.3545	1313.7662	1.4929e+00	1.3165e+01
121	IPW000004	381.9242	384.3656	383.1252	5.0503e-01	3.6278e+00
122	IPW000005	252.6161	254.5691	253.5634	4.1157e-01	2.8307e+00
123	IPW000006	262.2070	263.1836	262.6758	3.5513e-01	2.8820e+00
124	EMPTY	-0.0244	-0.0098	-0.0186	4.1853e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0115	3.0819e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0143	3.0945e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0160	2.7971e-03	0.0000e+00
128	IHT000001	129.4381	131.5866	130.5123	5.0262e-01	4.3027e+00
129	IHT000002	133.1537	135.3022	134.2046	4.8631e-01	4.3141e+00
130	IHT000003	132.9538	134.9069	134.0162	4.6715e-01	4.3135e+00
131	IHT000004	131.0900	133.6291	132.3634	5.2532e-01	4.3084e+00
132	IHT000005	129.6428	131.9866	130.8576	5.0731e-01	4.3038e+00
133	IHT000006	124.6119	126.9556	125.8853	4.9480e-01	4.2889e+00
134	IHT000007	131.6006	133.9444	132.7725	5.0839e-01	4.3096e+00
135	IHT000008	130.2334	132.3819	131.4209	5.2176e-01	4.3055e+00
136	IHT000009	130.7394	132.8878	131.7940	5.0839e-01	4.3066e+00
137	IHT000010	132.3419	134.6856	133.6504	5.2087e-01	4.3123e+00
138	IHT000011	130.8594	133.0078	132.0078	5.0784e-01	4.3073e+00
139	IHT000012	128.6734	131.0172	129.6578	5.0062e-01	4.3001e+00
140	IHT000013	91.7828	93.9313	93.0367	4.6201e-01	4.2042e+00
141	IHT000014	127.4191	129.5675	128.6456	4.4997e-01	4.2971e+00
142	IHT000015	94.5266	96.6750	95.7727	4.7497e-01	4.2104e+00
143	IHT000016	88.0459	89.9991	89.2959	4.9126e-01	4.1961e+00
144	IHT000017	105.0781	108.0078	106.4844	6.9363e-01	4.2360e+00
145	IHT000018	-1.2072	0.7459	-0.1017	4.4923e-01	4.1000e+00
146	IHT000019	107.1466	109.4903	108.1504	4.6523e-01	4.2402e+00
147	IHT000020	105.7559	107.9044	106.6856	4.4740e-01	4.2365e+00
148	IHT000021	-0.2616	2.0822	0.6838	4.2197e-01	4.1000e+00
149	IHT000022	91.9122	94.2559	92.8145	4.4798e-01	4.2037e+00
150	IHT000023	105.1581	107.5019	106.2246	4.8522e-01	4.2354e+00
151	IHT000024	66.7162	68.8647	67.6382	4.7848e-01	4.1554e+00
152	IHT000025	103.3509	105.3041	104.1244	4.5841e-01	4.2302e+00
153	IHT000026	105.1181	107.4619	106.2002	4.6389e-01	4.2353e+00
154	IHT000027	88.9472	91.4863	90.3964	4.7856e-01	4.1985e+00
155	IHT000028	90.1897	92.1428	91.0295	5.0417e-01	4.1998e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0547	108.0078	106.8516	5.2916e-01	4.2369e+00
157	IHT000030	108.9044	110.6622	109.6036	5.2213e-01	4.2440e+00
158	IHT000031	106.5206	108.2784	107.2979	4.9989e-01	4.2381e+00
159	IHT000032	107.5019	109.4550	108.2558	4.9286e-01	4.2405e+00
160	IHT000033	-1.1966	0.5612	-0.3723	4.3277e-01	4.1000e+00
161	IHT000034	94.4912	95.8584	95.1397	4.5239e-01	4.2089e+00
162	IHT000035	124.2659	126.0238	124.9496	5.1788e-01	4.2862e+00
163	IHT000036	92.9688	94.7266	93.7305	4.7227e-01	4.2058e+00

Velocity 1 = 5.8818 (ft/sec) (+/- 5.8728 %)
Velocity 2 = 5.9006 (ft/sec) (+/- 3.8625 %)
Pressure drop = -3.9654 (psi)
Tsats in = 268.0468 (deg F) Tsats out = 273.9406 (deg F)
Phi inner = 99.7336 (kBtu/hr-ft2) (+/- 1.5721 %)
Phi outer = 100.3422 (kBtu/hr-ft2) (+/- 1.5519 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.8680	76.5048	76.2103	2.0236e-01	1.9000e+00
1	TRF000002	76.4207	76.8431	76.6578	1.3379e-01	1.9000e+00
2	TFM000001	86.1495	86.9877	86.5131	1.9972e-01	1.9002e+00
3	TIN000001	85.9947	86.6258	86.3360	1.5842e-01	1.9002e+00
4	TRV000001	86.0551	87.2067	86.6940	2.4184e-01	1.9002e+00
5	TSR000001	147.0896	149.8775	148.6418	6.5551e-01	1.9042e+00
6	TAO020136	185.0925	186.0684	185.4813	2.0746e-01	1.9090e+00
7	TAO050136	174.4944	175.4730	175.0555	2.4839e-01	1.9074e+00
8	TAO070136	183.1628	184.0438	183.6402	2.2022e-01	1.9087e+00
9	TAO080136	189.4078	190.1827	189.7303	1.6707e-01	1.9096e+00
10	TAO090136	194.4564	195.5190	194.9689	1.9744e-01	1.9105e+00
11	TAO100136	199.1615	199.9332	199.4944	2.0179e-01	1.9113e+00
12	TAO105136	200.8587	201.5334	201.1443	1.7807e-01	1.9116e+00
13	EMPTY	40.9819	41.4403	41.3047	1.2302e-01	1.9011e+00
14	TAO115136	202.3226	203.2870	202.7891	1.9824e-01	1.9118e+00
15	EMPTY	31.7686	42.1273	37.8292	2.7709e+00	1.9010e+00
16	TAO125136	210.0797	210.8446	210.4250	1.9011e-01	1.9132e+00
17	TAO130136	196.3715	197.1389	196.8577	1.7075e-01	1.9108e+00
18	EMPTY	40.9819	41.8984	41.4964	2.1699e-01	1.9012e+00
19	TAO130048	209.0476	209.6224	209.2999	1.5962e-01	1.9130e+00
20	TAO120224	202.7875	203.6526	203.2212	1.8636e-01	1.9119e+00
21	EMPTY	39.1464	39.6057	39.3011	1.2740e-01	1.9010e+00
22	TAO120312	218.0427	218.8051	218.4938	1.9910e-01	1.9148e+00
23	TAO130312	209.9518	210.5263	210.2624	1.5199e-01	1.9132e+00
24	EMPTY	39.1464	39.8352	39.4417	1.9323e-01	1.9010e+00
25	TRT070000	175.7688	177.1480	176.5514	2.7917e-01	1.9076e+00
26	TRT100000	201.5784	202.8264	202.2819	2.4118e-01	1.9118e+00
27	TRT120000	217.2181	218.0752	217.6713	2.1865e-01	1.9146e+00
28	TRT125000	219.2853	220.1379	219.6831	2.1281e-01	1.9150e+00
29	EMPTY	39.8352	40.2940	40.0272	1.1800e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6947	2.0323e-01	1.9011e+00
31	TAF050136	119.8399	121.3667	120.6026	3.3387e-01	1.9017e+00
32	TAF070136	132.7874	134.1947	133.5573	3.3330e-01	1.9027e+00
33	TAF080136	138.9254	140.0267	139.4876	2.6692e-01	1.9033e+00
34	TAF090136	143.5590	144.6624	144.0076	2.5980e-01	1.9037e+00
35	TAF100136	149.2939	150.0944	149.7453	2.1225e-01	1.9043e+00
36	TAF105136	152.0738	153.4615	152.8564	3.3127e-01	1.9046e+00
37	TAF110136	155.1465	156.0390	155.6101	1.9573e-01	1.9049e+00
38	TAF115136	158.8413	159.9306	159.2198	2.2300e-01	1.9054e+00
39	TAF120136	161.6461	162.4366	161.9750	1.8410e-01	1.9057e+00
40	TAF125136	164.7986	165.8795	165.1701	2.2643e-01	1.9061e+00
41	TAF130136	167.5358	168.9141	168.0885	2.3857e-01	1.9065e+00
42	TAF120048	173.5698	174.9520	174.2928	3.1321e-01	1.9073e+00
43	TAF130048	177.5439	178.7183	178.1656	2.4442e-01	1.9079e+00
44	TAF120224	163.0890	164.1767	163.6199	2.3583e-01	1.9059e+00
45	TAF130224	168.3529	169.0456	168.7188	1.6423e-01	1.9066e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9739	2.0591e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.4229	1.1460e-01	1.9010e+00
48	TAI130048	218.2364	219.3791	218.8797	2.9764e-01	1.9149e+00
49	EMPTY	37.7675	38.6870	38.2367	1.8746e-01	1.9010e+00
50	TAI130224	208.5100	209.5663	209.0566	2.7317e-01	1.9130e+00
51	EMPTY	40.9819	41.6693	41.3374	1.8152e-01	1.9012e+00
52	TRR130000	109.1516	112.1290	110.6082	7.6774e-01	1.9011e+00
53	TSI000001	51.4803	52.3433	51.9578	2.1807e-01	1.9002e+00
54	TSI000002	74.3603	77.2131	75.8833	7.1125e-01	1.9000e+00
55	TSO000001	49.5478	50.4169	49.9844	2.2647e-01	1.9003e+00
56	TSO000002	60.3279	61.2938	60.8689	2.2536e-01	1.9001e+00
57	TAF020136	98.5097	99.5530	99.1297	2.6993e-01	1.9006e+00
58	TAF120312	172.0092	173.1884	172.5807	2.9865e-01	1.9071e+00
59	TAF130312	178.6757	179.5555	179.1564	2.1101e-01	1.9080e+00
60	EMPTY	2.6514	2.6611	2.6563	2.8191e-03	0.0000e+00
61	EMPTY	2.6514	2.6660	2.6549	2.8191e-03	0.0000e+00
62	EMPTY	2.6514	2.6563	2.6536	2.4538e-03	0.0000e+00
63	EMPTY	2.6563	2.6660	2.6582	2.6216e-03	0.0000e+00
64	EMPTY	1.2939	1.2988	1.2941	9.7615e-04	0.0000e+00
65	EMPTY	1.3086	1.3135	1.3101	2.2737e-03	0.0000e+00
66	EMPTY	1.3184	1.3232	1.3219	2.1781e-03	0.0000e+00
67	EMPTY	1.3330	1.3379	1.3336	1.6172e-03	0.0000e+00
68	EMPTY	1.3428	1.3428	1.3428	0.0000e+00	0.0000e+00
69	EMPTY	1.3525	1.3574	1.3564	1.9883e-03	0.0000e+00
70	EMPTY	1.3623	1.3672	1.3671	6.9754e-04	0.0000e+00
71	EMPTY	1.3818	1.3867	1.3859	1.8234e-03	0.0000e+00
72	EMPTY	1.3916	1.3965	1.3951	2.2287e-03	0.0000e+00
73	EMPTY	1.4063	1.4111	1.4086	2.4662e-03	0.0000e+00
74	EMPTY	1.4160	1.4209	1.4202	1.7263e-03	0.0000e+00
75	EMPTY	1.4307	1.4355	1.4312	1.4934e-03	0.0000e+00
76	EMPTY	1.4404	1.4453	1.4405	6.9754e-04	0.0000e+00
77	EMPTY	1.4551	1.4600	1.4557	1.6172e-03	0.0000e+00
78	EMPTY	1.4697	1.4795	1.4746	9.9670e-04	0.0000e+00
79	EMPTY	1.4941	1.4990	1.4942	6.9754e-04	0.0000e+00
80	PAN020136	-14.1483	-13.3091	-13.7341	1.9200e-01	8.7068e-01
81	PAN050136	-26.8682	-26.1052	-26.5225	2.3469e-01	1.6813e+00
82	PAN070136	-17.4587	-16.8484	-17.1364	1.3511e-01	8.7105e-01
83	PAN080136	-9.0500	-8.6686	-8.8866	1.0677e-01	8.7028e-01
84	PAN090136	-8.8855	-8.6566	-8.7376	7.0354e-02	8.7027e-01
85	PAN100136	-9.3534	-8.9719	-9.1681	9.2134e-02	8.7030e-01
86	PAN105136	-4.0667	-3.7615	-3.9032	7.1366e-02	8.7005e-01
87	PAN110136	-4.5383	-4.2332	-4.3857	7.9409e-02	8.7007e-01
88	PAN115136	-3.7441	-3.4390	-3.6492	6.7039e-02	8.7005e-01
89	PAN120136	-4.8444	-4.4629	-4.6575	9.0890e-02	8.7008e-01
90	PAN125136	-4.3765	-4.0713	-4.1912	6.2294e-02	8.7006e-01
91	PAN130136	-4.4849	-4.2560	-4.3696	7.4886e-02	8.7007e-01
92	PAN120048	-9.5254	-8.9913	-9.2514	1.1541e-01	8.7031e-01
93	PAN130048	-9.0354	-8.6539	-8.8501	9.7256e-02	8.7028e-01
94	PAN120224	-8.5758	-8.1943	-8.4217	9.6618e-02	8.7025e-01
95	PAN130224	-8.9766	-8.5188	-8.6994	9.8117e-02	8.7027e-01
96	PAN120312	-8.6953	-8.3901	-8.5381	9.1351e-02	8.7026e-01
97	PAN130312	-9.2725	-8.8910	-9.0545	8.8097e-02	8.7029e-01
98	PAB000136	40.3023	40.6227	40.4574	8.1896e-02	5.8875e-01
99	PAB100136	43.7691	43.9065	43.8261	4.7214e-02	5.9026e-01
100	PAB125136	44.5197	44.7028	44.6262	4.1143e-02	5.9063e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8587	40.7132	40.2324	1.8039e-01	7.5671e-01
102	PRV000001	19.3612	19.4833	19.4733	3.3770e-02	7.5158e-01
103	PSR000001	44.3106	44.5548	44.4327	2.4917e-02	7.5818e-01
104	PFM000001	5.1073	5.4735	5.2774	8.9625e-02	5.0017e-01
105	PAN000136	-113.2583	-106.8496	-109.7830	1.5605e+00	4.9276e+00
106	PFM000002	5.2396	5.4254	5.3116	4.2765e-02	2.0044e-01
107	EMPTY	-0.0049	0.0049	0.0018	4.4231e-03	0.0000e+00
108	EMPTY	-7.5586	-4.0039	-6.0428	9.0657e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0005	2.2826e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0003	1.1827e-03	0.0000e+00
112	VPW000001	100.7859	101.3719	101.1128	1.4587e-01	1.0120e+00
113	VPW000002	118.5500	119.1359	118.8250	1.1906e-01	1.0791e+00
114	VPW000003	146.2491	146.6397	146.4085	1.2400e-01	1.1949e+00
115	VPW000004	104.6522	105.2381	104.8953	1.2308e-01	1.0258e+00
116	VPW000005	139.1378	139.7238	139.3968	1.2849e-01	1.1643e+00
117	VPW000006	147.1056	147.6916	147.3447	1.3963e-01	1.1990e+00
118	IPW000001	545.8566	553.6660	550.0801	2.1589e+00	9.1921e+00
119	IPW000002	1295.6429	1307.3506	1301.5764	3.4484e+00	1.3090e+01
120	IPW000003	1319.3044	1327.1045	1322.7266	1.5687e+00	1.3221e+01
121	IPW000004	381.9242	384.8539	383.4785	8.4381e-01	3.6301e+00
122	IPW000005	253.5926	255.0573	254.4595	3.6298e-01	2.8357e+00
123	IPW000006	262.6953	264.6484	263.6619	4.2858e-01	2.8877e+00
124	EMPTY	-0.0293	-0.0098	-0.0199	4.6576e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.7091e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0157	4.0197e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0150	3.4291e-03	0.0000e+00
128	IHT000001	129.6334	132.1725	130.4585	5.4993e-01	4.3026e+00
129	IHT000002	133.3491	135.4975	134.1344	4.9232e-01	4.3138e+00
130	IHT000003	133.1491	135.2975	133.9383	4.8984e-01	4.3132e+00
131	IHT000004	131.4806	134.0197	132.2977	6.0420e-01	4.3082e+00
132	IHT000005	130.0334	132.5725	130.7987	5.7199e-01	4.3036e+00
133	IHT000006	125.0025	127.5416	125.8196	5.9759e-01	4.2887e+00
134	IHT000007	131.7959	134.5303	132.7525	5.9435e-01	4.3096e+00
135	IHT000008	130.4288	132.7725	131.3694	5.4762e-01	4.3053e+00
136	IHT000009	130.7394	132.8878	131.7198	5.2209e-01	4.3064e+00
137	IHT000010	132.3419	134.6856	133.6572	5.7467e-01	4.3124e+00
138	IHT000011	130.6641	133.3984	132.0791	5.7710e-01	4.3075e+00
139	IHT000012	128.2828	130.8219	129.7536	6.0607e-01	4.3004e+00
140	IHT000013	91.7828	94.3219	93.0941	6.0067e-01	4.2044e+00
141	IHT000014	127.6144	130.1534	128.7543	5.6571e-01	4.2974e+00
142	IHT000015	94.7219	96.8703	95.7622	5.3990e-01	4.2103e+00
143	IHT000016	88.0459	90.3897	89.1939	4.8112e-01	4.1959e+00
144	IHT000017	105.0781	108.3984	106.9196	8.1996e-01	4.2371e+00
145	IHT000018	-1.0119	1.1366	-0.0034	4.9209e-01	4.1000e+00
146	IHT000019	107.7325	109.4903	108.3981	4.1988e-01	4.2409e+00
147	IHT000020	106.3419	108.0997	106.9796	4.0022e-01	4.2373e+00
148	IHT000021	0.3244	1.6916	0.8665	3.4357e-01	4.1000e+00
149	IHT000022	92.3028	93.6700	92.9246	3.4220e-01	4.2040e+00
150	IHT000023	105.5488	107.3066	106.4018	3.9406e-01	4.2358e+00
151	IHT000024	67.1069	68.8647	67.7885	3.6129e-01	4.1557e+00
152	IHT000025	103.7416	105.3041	104.3235	3.6428e-01	4.2306e+00
153	IHT000026	105.7041	107.4619	106.4216	3.7269e-01	4.2359e+00
154	IHT000027	89.5331	91.6816	90.4061	4.0482e-01	4.1985e+00
155	IHT000028	89.9944	92.3381	91.0307	4.5141e-01	4.1998e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0547	108.7891	107.0512	5.1712e-01	4.2375e+00
157	IHT000030	108.9044	111.4434	109.7533	5.1452e-01	4.2444e+00
158	IHT000031	106.5206	109.2550	107.4652	4.9047e-01	4.2385e+00
159	IHT000032	107.6972	109.8456	108.4466	4.5167e-01	4.2410e+00
160	IHT000033	-1.0013	1.1472	-0.3356	3.6084e-01	4.1000e+00
161	IHT000034	94.4912	96.6397	95.1808	4.0285e-01	4.2090e+00
162	IHT000035	124.2659	126.6097	125.0393	4.6144e-01	4.2864e+00
163	IHT000036	92.9688	95.3125	93.7420	4.2185e-01	4.2058e+00

Velocity 1 = 0.015200 (ft/sec)
 Velocity 2 = 0.001800 (ft/sec)
 Pressure Drop = 0.000800 (psi)
 Tsat in = 0.161377 (deg F) Tsat out = 0.141083 (deg F)
 Phi inner = 0.593498 (kBtu/hr-ft2) Phi outer = 0.167801 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1597	0.2100
1	TRF000002	0.1399	0.1828
2	TFM000001	0.5565	0.6474
3	TIN000001	0.5388	0.6280
4	TRV000001	0.4168	0.4831
5	TSR000001	4.0393	2.7934
6	TAO020136	4.3648	2.4099
7	TAO050136	0.4942	0.2831
8	TAO070136	1.1827	0.6482
9	TAO080136	0.9011	0.4772
10	TAO090136	0.7288	0.3752
11	TAO100136	0.7065	0.3554
12	TAO105136	0.5743	0.2863
13	EMPTY	0.0111	0.0269
14	TAO115136	4.2589	2.0570
15	EMPTY	0.4689	1.2243
16	TAO125136	0.6279	0.2993
17	TAO130136	0.8516	0.4345
18	EMPTY	0.0126	0.0304
19	TAO130048	0.8324	0.3993
20	TAO120224	1.4146	0.6913
21	EMPTY	0.0812	0.2070
22	TAO120312	0.0748	0.0342
23	TAO130312	1.1697	0.5594
24	EMPTY	0.0610	0.1549
25	TRT070000	0.2772	0.1573
26	TRT100000	0.8533	0.4236
27	TRT120000	0.0189	0.0087
28	TRT125000	0.5797	0.2646
29	EMPTY	0.0176	0.0440
30	EMPTY	0.0211	0.0531
31	TAF050136	0.0994	0.0825
32	TAF070136	0.5890	0.4430
33	TAF080136	0.5097	0.3667
34	TAF090136	0.4562	0.3178
35	TAF100136	0.5231	0.3506
36	TAF105136	0.5012	0.3290
37	TAF110136	0.4002	0.2578
38	TAF115136	0.2475	0.1557
39	TAF120136	0.3835	0.2373
40	TAF125136	0.4500	0.2732
41	TAF130136	0.5764	0.3441
42	TAF120048	0.4624	0.2660
43	TAF130048	0.6057	0.3411
44	TAF120224	0.4238	0.2597
45	TAF130224	0.6546	0.3895

#	Name	Abs Diff	%Diff
46	EMPTY	0.0593	0.1564
47	EMPTY	0.0376	0.0955
48	TAI130048	1.8544	0.8545
49	EMPTY	0.0044	0.0115
50	TAI130224	1.1773	0.5663
51	EMPTY	0.2546	0.6197
52	TRR130000	0.4710	0.4276
53	TSI000001	0.1586	0.3062
54	TSI000002	0.7027	0.9347
55	TSO000001	0.0842	0.1687
56	TSO000002	0.2446	0.4035
57	TAF020136	0.2438	0.2465
58	TAF120312	1.2794	0.7469
59	TAF130312	1.1179	0.6279
60	EMPTY	0.0254	0.9655
61	EMPTY	0.0265	1.0082
62	EMPTY	0.0267	1.0164
63	EMPTY	0.0266	1.0108
64	EMPTY	0.0103	0.8023
65	EMPTY	0.0114	0.8778
66	EMPTY	0.0129	0.9855
67	EMPTY	0.0104	0.7860
68	EMPTY	0.0108	0.8108
69	EMPTY	0.0132	0.9827
70	EMPTY	0.0117	0.8632
71	EMPTY	0.0131	0.9543
72	EMPTY	0.0131	0.9479
73	EMPTY	0.0121	0.8665
74	EMPTY	0.0135	0.9597
75	EMPTY	0.0105	0.7391
76	EMPTY	0.0099	0.6920
77	EMPTY	0.0107	0.7405
78	EMPTY	0.0126	0.8618
79	EMPTY	0.0119	0.8028
80	PAN020136	0.1060	0.7659
81	PAN050136	0.0832	0.3127
82	PAN070136	0.0202	0.1177
83	PAN080136	0.0215	0.2414
84	PAN090136	0.0151	0.1725
85	PAN100136	0.2862	3.2223
86	PAN105136	0.3160	7.4896
87	PAN110136	0.2106	4.5819
88	PAN115136	0.4962	11.9699
89	PAN120136	0.2083	4.6817
90	PAN125136	0.4907	13.2604
91	PAN130136	0.0115	0.2625
92	PAN120048	0.2908	3.0475
93	PAN130048	0.5456	6.5699
94	PAN120224	0.0473	0.5585
95	PAN130224	0.4202	5.0754
96	PAN120312	0.2472	2.8138
97	PAN130312	0.6274	7.4450
98	PAB000136	0.1095	0.2699
99	PAB100136	0.0941	0.2143
100	PAB125136	0.1041	0.2327

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0173	0.0430
102	PRV000001	0.0027	0.0139
103	PSR000001	0.1050	0.2358
104	PFM000001	0.0273	0.5200
105	PAN000136	0.0220	0.0200
106	PFM000002	0.0028	0.0527
107	EMPTY	0.0026	59.0909
108	EMPTY	0.2412	3.8383
109	EMPTY	0.0016	76.1905
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	100.0000
112	VPW000001	0.1263	0.1248
113	VPW000002	0.1468	0.1234
114	VPW000003	0.0554	0.0378
115	VPW000004	0.0460	0.0438
116	VPW000005	0.0339	0.0243
117	VPW000006	0.0031	0.0021
118	IPW000001	6.7487	1.2120
119	IPW000002	10.8115	0.8376
120	IPW000003	8.9603	0.6820
121	IPW000004	0.3533	0.0922
122	IPW000005	0.8961	0.3534
123	IPW000006	0.9861	0.3754
124	EMPTY	0.0013	6.9892
125	EMPTY	0.0016	13.9130
126	EMPTY	0.0014	9.7902
127	EMPTY	0.0010	6.2500
128	IHT000001	0.0538	0.0412
129	IHT000002	0.0702	0.0523
130	IHT000003	0.0779	0.0581
131	IHT000004	0.0657	0.0496
132	IHT000005	0.0589	0.0450
133	IHT000006	0.0657	0.0522
134	IHT000007	0.0200	0.0151
135	IHT000008	0.0515	0.0392
136	IHT000009	0.0742	0.0563
137	IHT000010	0.0068	0.0051
138	IHT000011	0.0713	0.0540
139	IHT000012	0.0958	0.0739
140	IHT000013	0.0574	0.0617
141	IHT000014	0.1087	0.0845
142	IHT000015	0.0105	0.0110
143	IHT000016	0.1020	0.1142
144	IHT000017	0.4352	0.4087
145	IHT000018	0.0983	96.6568
146	IHT000019	0.2477	0.2290
147	IHT000020	0.2940	0.2756
148	IHT000021	0.1827	26.7183
149	IHT000022	0.1101	0.1186
150	IHT000023	0.1772	0.1668
151	IHT000024	0.1503	0.2222
152	IHT000025	0.1991	0.1912
153	IHT000026	0.2214	0.2085
154	IHT000027	0.0097	0.0107
155	IHT000028	0.0012	0.0013

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1996	0.1868
157	IHT000030	0.1497	0.1366
158	IHT000031	0.1673	0.1559
159	IHT000032	0.1908	0.1763
160	IHT000033	0.0367	9.8576
161	IHT000034	0.0411	0.0432
162	IHT000035	0.0897	0.0718
163	IHT000036	0.0115	0.0123

Velocity 1 = 5.0021 (ft/sec) (+/- 7.4441 %)
Velocity 2 = 5.0440 (ft/sec) (+/- 4.1810 %)
Pressure drop = -4.3356 (psi)
Tsats in = 268.1569 (deg F) Tsats out = 274.5096 (deg F)
Phi inner = 99.0554 (kBtu/hr-ft2) (+/- 1.5739 %)
Phi outer = 99.9805 (kBtu/hr-ft2) (+/- 1.5528 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.0803	76.7169	76.3477	1.8094e-01	1.9000e+00
1	TRF000002	76.6320	77.0543	76.8515	1.2769e-01	1.9000e+00
2	TFM000001	85.3112	86.0463	85.7038	2.0965e-01	1.9002e+00
3	TIN000001	85.2584	85.9944	85.5507	1.3817e-01	1.9002e+00
4	TRV000001	86.1604	86.7894	86.4939	1.7259e-01	1.9002e+00
5	TSR000001	151.2686	154.2466	153.1965	6.3865e-01	1.9047e+00
6	TAO020136	186.9464	188.0181	187.5484	2.3516e-01	1.9093e+00
7	TAO050136	183.7395	184.6152	184.2160	1.9572e-01	1.9088e+00
8	TAO070136	195.5508	196.4238	195.9870	1.9724e-01	1.9107e+00
9	TAO080136	202.7603	203.5277	203.1424	1.7487e-01	1.9119e+00
10	TAO090136	211.2539	212.1133	211.6187	1.8169e-01	1.9135e+00
11	TAO100136	218.5947	219.5462	218.9584	2.0224e-01	1.9149e+00
12	TAO105136	217.1491	218.1026	217.7002	1.8298e-01	1.9146e+00
13	EMPTY	41.2111	41.6693	41.3440	1.3166e-01	1.9012e+00
14	TAO115136	217.0281	217.9838	217.4431	2.1894e-01	1.9146e+00
15	EMPTY	31.7686	42.8139	37.5934	2.7309e+00	1.9010e+00
16	TAO125136	226.6932	227.4498	227.0019	1.7072e-01	1.9165e+00
17	TAO130136	212.0000	212.7594	212.3897	1.6419e-01	1.9136e+00
18	EMPTY	40.7527	41.6693	41.1332	2.0504e-01	1.9011e+00
19	TAO130048	226.2308	226.8937	226.5092	1.6381e-01	1.9164e+00
20	TAO120224	219.3261	220.0872	219.6592	1.7537e-01	1.9150e+00
21	EMPTY	39.1464	39.6057	39.3669	1.0331e-01	1.9010e+00
22	TAO120312	236.6979	237.3575	237.0766	1.4921e-01	1.9187e+00
23	TAO130312	228.0781	228.7403	228.3978	1.4281e-01	1.9168e+00
24	EMPTY	39.1464	39.8352	39.4495	1.8807e-01	1.9010e+00
25	TRT070000	187.6602	189.4198	188.3157	3.2159e-01	1.9094e+00
26	TRT100000	218.6613	219.6107	219.0618	2.1728e-01	1.9149e+00
27	TRT120000	235.9483	236.6999	236.3297	1.8166e-01	1.9185e+00
28	TRT125000	238.0705	238.7264	238.4214	1.7116e-01	1.9190e+00
29	EMPTY	39.8352	40.2940	40.0601	8.6596e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7755	2.1152e-01	1.9011e+00
31	TAF050136	124.3102	125.5281	124.9215	2.9529e-01	1.9020e+00
32	TAF070136	139.3034	140.6029	140.0293	2.9134e-01	1.9033e+00
33	TAF080136	146.5948	148.2821	147.4223	3.6491e-01	1.9040e+00
34	TAF090136	152.3509	153.3472	152.7875	2.7279e-01	1.9046e+00
35	TAF100136	159.3611	160.3544	159.8080	2.5789e-01	1.9054e+00
36	TAF105136	162.6156	163.8934	163.2299	2.6911e-01	1.9058e+00
37	TAF110136	165.9008	167.0806	166.4384	2.4996e-01	1.9063e+00
38	TAF115136	169.7826	171.2553	170.4802	3.2924e-01	1.9068e+00
39	TAF120136	173.1190	174.0977	173.6926	2.1188e-01	1.9072e+00
40	TAF125136	176.8165	177.8882	177.3143	2.3230e-01	1.9077e+00
41	TAF130136	180.1813	181.2552	180.7808	2.4396e-01	1.9082e+00
42	TAF120048	187.0487	188.7123	187.8494	3.9058e-01	1.9093e+00
43	TAF130048	191.7659	193.0251	192.4536	2.8984e-01	1.9101e+00
44	TAF120224	175.6800	177.0510	176.3834	2.7881e-01	1.9076e+00
45	TAF130224	181.9587	182.9391	182.4352	2.5272e-01	1.9085e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9330	2.2779e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.5047	1.1512e-01	1.9011e+00
48	TAI130048	236.1248	237.2541	236.6802	2.3075e-01	1.9186e+00
49	EMPTY	37.7675	38.6870	38.2365	1.9127e-01	1.9010e+00
50	TAI130224	225.7072	226.8474	226.3098	2.8240e-01	1.9164e+00
51	EMPTY	40.9819	41.8984	41.4403	1.7319e-01	1.9012e+00
52	TRR130000	132.1744	136.0051	134.5645	1.0161e+00	1.9028e+00
53	TSI000001	51.6959	52.5587	52.1857	1.9515e-01	1.9002e+00
54	TSI000002	82.8986	85.6265	84.1809	6.3611e-01	1.9001e+00
55	TSO000001	49.5473	50.4149	49.9313	1.8633e-01	1.9003e+00
56	TSO000002	61.5077	62.4721	62.0328	2.2417e-01	1.9000e+00
57	TAF020136	96.6233	97.8785	97.2907	2.8499e-01	1.9005e+00
58	TAF120312	186.2846	187.5497	186.8550	3.1501e-01	1.9092e+00
59	TAF130312	194.0285	195.3818	194.7691	2.4126e-01	1.9105e+00
60	EMPTY	3.0322	3.0469	3.0407	2.7568e-03	0.0000e+00
61	EMPTY	3.0322	3.0371	3.0358	2.1635e-03	0.0000e+00
62	EMPTY	3.0273	3.0322	3.0317	1.4797e-03	0.0000e+00
63	EMPTY	3.0322	3.0371	3.0327	1.4797e-03	0.0000e+00
64	EMPTY	1.4600	1.4648	1.4603	1.1714e-03	0.0000e+00
65	EMPTY	1.4746	1.4746	1.4746	0.0000e+00	0.0000e+00
66	EMPTY	1.4844	1.4844	1.4844	0.0000e+00	0.0000e+00
67	EMPTY	1.4941	1.4990	1.4964	2.4583e-03	0.0000e+00
68	EMPTY	1.5039	1.5088	1.5041	9.6655e-04	0.0000e+00
69	EMPTY	1.5137	1.5186	1.5171	2.2603e-03	0.0000e+00
70	EMPTY	1.5234	1.5332	1.5266	2.5648e-03	0.0000e+00
71	EMPTY	1.5430	1.5479	1.5433	1.1714e-03	0.0000e+00
72	EMPTY	1.5479	1.5527	1.5525	9.6655e-04	0.0000e+00
73	EMPTY	1.5625	1.5674	1.5639	2.2146e-03	0.0000e+00
74	EMPTY	1.5723	1.5771	1.5732	1.9730e-03	0.0000e+00
75	EMPTY	1.5869	1.5869	1.5869	0.0000e+00	0.0000e+00
76	EMPTY	1.5918	1.5967	1.5959	1.8082e-03	0.0000e+00
77	EMPTY	1.6064	1.6113	1.6079	2.2603e-03	0.0000e+00
78	EMPTY	1.6260	1.6309	1.6261	6.9053e-04	0.0000e+00
79	EMPTY	1.6406	1.6455	1.6444	2.0432e-03	0.0000e+00
80	PAN020136	-15.5216	-14.6824	-15.1066	1.8378e-01	8.7082e-01
81	PAN050136	-29.4622	-28.5466	-28.9312	1.8558e-01	1.6816e+00
82	PAN070136	-18.9846	-18.4506	-18.7725	1.2644e-01	8.7126e-01
83	PAN080136	-9.8130	-9.5078	-9.6604	9.1189e-02	8.7034e-01
84	PAN090136	-10.0299	-9.6484	-9.8361	9.2752e-02	8.7035e-01
85	PAN100136	-9.7349	-9.4297	-9.5838	8.0815e-02	8.7033e-01
86	PAN105136	-4.6770	-4.2955	-4.4969	7.1901e-02	8.7007e-01
87	PAN110136	-4.9198	-4.5383	-4.7413	7.3292e-02	8.7008e-01
88	PAN115136	-4.2782	-3.9730	-4.1302	6.4314e-02	8.7006e-01
89	PAN120136	-5.1495	-4.8444	-4.9802	8.7587e-02	8.7009e-01
90	PAN125136	-4.6816	-4.1476	-4.4833	1.2522e-01	8.7007e-01
91	PAN130136	-5.1715	-4.6375	-4.7885	1.3568e-01	8.7008e-01
92	PAN120048	-10.1357	-9.7543	-9.9313	9.3046e-02	8.7035e-01
93	PAN130048	-9.4932	-9.1880	-9.3436	8.9824e-02	8.7031e-01
94	PAN120224	-9.5676	-8.9573	-9.1968	1.6530e-01	8.7030e-01
95	PAN130224	-9.9684	-9.3580	-9.7044	1.6400e-01	8.7034e-01
96	PAN120312	-9.5345	-9.1531	-9.3392	9.2687e-02	8.7031e-01
97	PAN130312	-9.5776	-9.2725	-9.4235	7.1454e-02	8.7032e-01
98	PAB000136	40.3938	40.6685	40.5321	7.3690e-02	5.8878e-01
99	PAB100136	44.0896	44.2727	44.1775	4.6093e-02	5.9042e-01
100	PAB125136	44.9775	45.1148	45.0471	3.9498e-02	5.9083e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9808	40.5911	40.2688	1.6683e-01	7.5673e-01
102	PRV000001	19.6054	19.8495	19.7250	3.0104e-02	7.5162e-01
103	PSR000001	44.7989	45.0431	44.8917	5.8152e-02	7.5835e-01
104	PFM000001	3.6425	4.0087	3.7963	8.7619e-02	5.0009e-01
105	PAN000136	-123.3291	-117.3782	-120.0332	1.4327e+00	4.9291e+00
106	PFM000002	3.8035	3.9049	3.8613	2.3422e-02	2.0023e-01
107	EMPTY	-0.0049	0.0049	-0.0018	4.1573e-03	0.0000e+00
108	EMPTY	-7.1484	-3.8525	-1.2605	8.9959e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0004	2.3839e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0008	1.8082e-03	0.0000e+00
112	VPW000001	100.9812	101.3719	101.1609	1.4139e-01	1.0122e+00
113	VPW000002	118.5500	119.3313	118.9054	1.4600e-01	1.0794e+00
114	VPW000003	146.2491	146.8350	146.4912	1.3416e-01	1.1953e+00
115	VPW000004	104.4569	105.2381	104.8827	1.7059e-01	1.0257e+00
116	VPW000005	138.9425	139.7238	139.4307	1.6857e-01	1.1645e+00
117	VPW000006	147.1056	147.6916	147.3478	1.6057e-01	1.1990e+00
118	IPW000001	553.6660	567.3323	558.5858	2.9316e+00	9.2240e+00
119	IPW000002	1280.0328	1295.6429	1284.9497	4.2866e+00	1.2987e+01
120	IPW000003	1309.5544	1317.3545	1312.5571	1.7711e+00	1.3158e+01
121	IPW000004	382.9008	385.8305	384.1115	9.3710e-01	3.6343e+00
122	IPW000005	253.1044	254.5691	253.6318	3.7998e-01	2.8310e+00
123	IPW000006	261.7188	263.1836	262.2949	3.3728e-01	2.8799e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.2133e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	3.2733e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0171	3.5908e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.5786e-03	0.0000e+00
128	IHT000001	129.2428	131.1959	130.3717	4.9172e-01	4.3023e+00
129	IHT000002	132.7631	134.9116	134.0210	4.4145e-01	4.3135e+00
130	IHT000003	132.5631	134.7116	133.8483	4.6870e-01	4.3129e+00
131	IHT000004	130.8947	133.4337	132.1993	4.7913e-01	4.3079e+00
132	IHT000005	129.4475	131.7912	130.7404	4.9739e-01	4.3034e+00
133	IHT000006	124.4166	126.7603	125.7056	4.9126e-01	4.2884e+00
134	IHT000007	131.4053	133.5538	132.6240	4.7933e-01	4.3092e+00
135	IHT000008	130.0381	132.7725	131.3076	5.2534e-01	4.3051e+00
136	IHT000009	130.5441	132.6925	131.6495	4.6120e-01	4.3062e+00
137	IHT000010	132.7325	134.6856	133.5762	5.3879e-01	4.3121e+00
138	IHT000011	131.0547	133.3984	131.9141	5.3959e-01	4.3070e+00
139	IHT000012	128.6734	131.0172	129.6499	5.3233e-01	4.3001e+00
140	IHT000013	91.9781	94.1266	92.9351	4.9166e-01	4.2040e+00
141	IHT000014	127.6144	129.5675	128.6143	5.0167e-01	4.2970e+00
142	IHT000015	94.3313	96.6750	95.6516	4.9215e-01	4.2101e+00
143	IHT000016	88.0459	90.1944	89.1514	4.7451e-01	4.1958e+00
144	IHT000017	104.6875	108.0078	106.6406	9.0067e-01	4.2364e+00
145	IHT000018	-1.2072	0.9413	-0.0822	4.6448e-01	4.1000e+00
146	IHT000019	107.7325	109.4903	108.5371	4.4053e-01	4.2412e+00
147	IHT000020	105.9512	108.0997	107.0098	4.6870e-01	4.2373e+00
148	IHT000021	0.1291	2.0822	0.9845	3.8640e-01	4.1000e+00
149	IHT000022	92.1075	94.0606	92.9590	3.9609e-01	4.2041e+00
150	IHT000023	105.3534	107.6972	106.4550	4.1151e-01	4.2359e+00
151	IHT000024	66.9116	69.0600	67.8413	3.9372e-01	4.1557e+00
152	IHT000025	103.3509	105.6947	104.3666	4.4990e-01	4.2307e+00
153	IHT000026	105.3134	107.6572	106.4307	4.3412e-01	4.2359e+00
154	IHT000027	89.3378	91.6816	90.4199	4.3443e-01	4.1985e+00
155	IHT000028	90.1897	91.9475	91.0022	4.2381e-01	4.1998e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2500	108.0078	106.9609	4.2455e-01	4.2372e+00
157	IHT000030	108.7091	110.6622	109.6114	4.2479e-01	4.2440e+00
158	IHT000031	106.3253	108.4737	107.3448	4.3636e-01	4.2382e+00
159	IHT000032	106.9159	109.6503	108.3379	4.8974e-01	4.2407e+00
160	IHT000033	-1.3919	0.7566	-0.4622	4.0155e-01	4.1000e+00
161	IHT000034	93.9053	95.8584	94.9912	4.2160e-01	4.2086e+00
162	IHT000035	124.0706	125.8284	124.8949	4.0489e-01	4.2860e+00
163	IHT000036	92.7734	94.7266	93.6523	3.7486e-01	4.2056e+00

Velocity 1 = 4.9981 (ft/sec) (+/- 7.4537 %)
Velocity 2 = 5.0323 (ft/sec) (+/- 4.1871 %)
Pressure drop = -4.3470 (psi)
Tsat in = 267.9668 (deg F) Tsat out = 274.3124 (deg F)
Phi inner = 100.8392 (kBtu/hr-ft2) (+/- 1.5694 %)
Phi outer = 100.1039 (kBtu/hr-ft2) (+/- 1.5540 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.0803	76.7169	76.4398	1.5739e-01	1.9000e+00
1	TRF000002	76.6320	77.0543	76.9250	1.2050e-01	1.9000e+00
2	TFM000001	85.2068	85.9415	85.5965	1.9390e-01	1.9002e+00
3	TIN000001	85.2582	85.7843	85.5308	1.2507e-01	1.9002e+00
4	TRV000001	85.4293	86.3719	85.9807	2.2493e-01	1.9002e+00
5	TSR000001	155.0384	156.7232	155.8534	4.5617e-01	1.9050e+00
6	TAO020136	188.1154	188.9916	188.6103	2.1204e-01	1.9095e+00
7	TAO050136	184.1285	185.0028	184.5309	1.8385e-01	1.9088e+00
8	TAO070136	195.9385	197.0054	196.3879	2.1753e-01	1.9107e+00
9	TAO080136	202.8568	203.8153	203.4238	2.1754e-01	1.9120e+00
10	TAO090136	209.5345	210.4903	209.9487	1.8862e-01	1.9131e+00
11	TAO100136	214.3085	215.0724	214.7100	1.6178e-01	1.9141e+00
12	TAO105136	216.2913	217.0542	216.6709	2.0460e-01	1.9144e+00
13	EMPTY	40.9819	41.4403	41.3000	1.3077e-01	1.9011e+00
14	TAO115136	217.5064	218.3662	217.9587	2.1258e-01	1.9147e+00
15	EMPTY	32.0000	42.8139	38.1145	3.0734e+00	1.9010e+00
16	TAO125136	227.1654	227.7335	227.4246	1.3753e-01	1.9166e+00
17	TAO130136	212.4723	213.1361	212.7601	1.4797e-01	1.9137e+00
18	EMPTY	40.7527	41.2111	41.0474	1.6208e-01	1.9011e+00
19	TAO130048	226.6091	227.2711	226.8773	1.5600e-01	1.9165e+00
20	TAO120224	219.8017	220.4677	220.1511	1.6401e-01	1.9151e+00
21	EMPTY	39.1464	39.6057	39.3667	9.3259e-02	1.9010e+00
22	TAO120312	236.8861	237.6396	237.3436	1.7819e-01	1.9188e+00
23	TAO130312	228.6448	229.3060	228.9627	1.6213e-01	1.9169e+00
24	EMPTY	39.1464	39.8352	39.4932	1.7612e-01	1.9011e+00
25	TRT070000	187.7585	189.2243	188.5842	3.1867e-01	1.9094e+00
26	TRT100000	216.6678	217.8076	217.2726	2.0963e-01	1.9146e+00
27	TRT120000	236.1359	236.8887	236.4738	1.9947e-01	1.9186e+00
28	TRT125000	238.0720	239.1011	238.6805	2.3528e-01	1.9191e+00
29	EMPTY	39.8352	40.2940	40.0600	1.2817e-01	1.9011e+00
30	EMPTY	39.3761	40.2940	39.7274	2.2518e-01	1.9011e+00
31	TAF050136	124.3107	125.9343	125.1639	3.2594e-01	1.9020e+00
32	TAF070136	139.6023	141.1032	140.3587	3.7017e-01	1.9033e+00
33	TAF080136	146.5944	148.5802	147.6262	3.4226e-01	1.9041e+00
34	TAF090136	152.0526	153.5462	152.9693	3.5140e-01	1.9046e+00
35	TAF100136	159.0630	160.3538	159.6753	2.7590e-01	1.9054e+00
36	TAF105136	162.5186	163.6974	163.1952	2.5856e-01	1.9058e+00
37	TAF110136	166.0008	167.1795	166.5701	2.3326e-01	1.9063e+00
38	TAF115136	170.0777	171.0602	170.6109	2.3542e-01	1.9068e+00
39	TAF120136	173.4128	174.1961	173.8562	1.8830e-01	1.9073e+00
40	TAF125136	176.9143	177.9869	177.5672	2.6083e-01	1.9078e+00
41	TAF130136	180.4744	181.6456	181.0162	2.5743e-01	1.9083e+00
42	TAF120048	186.7545	188.9079	187.9772	4.2284e-01	1.9094e+00
43	TAF130048	192.3467	193.3160	192.7584	2.7007e-01	1.9101e+00
44	TAF120224	175.7783	177.1488	176.4518	2.8798e-01	1.9076e+00
45	TAF130224	181.9587	182.9391	182.6107	2.2246e-01	1.9085e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0021	2.1246e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.5401	1.0479e-01	1.9011e+00
48	TAI130048	236.5958	237.8187	237.2329	2.9950e-01	1.9187e+00
49	EMPTY	37.9974	38.4572	38.2930	1.4838e-01	1.9010e+00
50	TAI130224	226.4671	227.3221	226.9130	2.6441e-01	1.9165e+00
51	EMPTY	41.2111	41.8984	41.6319	2.0028e-01	1.9012e+00
52	TRR130000	124.3766	127.5211	125.8658	6.4078e-01	1.9021e+00
53	TSI000001	51.8042	52.5592	52.1717	1.7591e-01	1.9002e+00
54	TSI000002	62.6707	65.2319	63.9625	6.4161e-01	1.9000e+00
55	TSO000001	49.3293	50.4149	49.9410	2.0155e-01	1.9003e+00
56	TSO000002	61.7220	62.4721	62.0741	1.8808e-01	1.9000e+00
57	TAF020136	97.0412	98.2973	97.6907	2.9353e-01	1.9005e+00
58	TAF120312	186.2846	188.1323	187.0751	3.7857e-01	1.9092e+00
59	TAF130312	194.7053	195.5750	195.1136	2.3278e-01	1.9105e+00
60	EMPTY	3.0420	3.0518	3.0483	2.9901e-03	0.0000e+00
61	EMPTY	3.0420	3.0469	3.0445	2.4662e-03	0.0000e+00
62	EMPTY	3.0371	3.0420	3.0398	2.4538e-03	0.0000e+00
63	EMPTY	3.0371	3.0469	3.0421	2.3353e-03	0.0000e+00
64	EMPTY	1.4600	1.4648	1.4641	1.7263e-03	0.0000e+00
65	EMPTY	1.4746	1.4844	1.4790	1.7954e-03	0.0000e+00
66	EMPTY	1.4844	1.4893	1.4892	6.9754e-04	0.0000e+00
67	EMPTY	1.4990	1.5039	1.4994	1.3508e-03	0.0000e+00
68	EMPTY	1.5039	1.5088	1.5086	9.7615e-04	0.0000e+00
69	EMPTY	1.5186	1.5234	1.5191	1.4934e-03	0.0000e+00
70	EMPTY	1.5234	1.5332	1.5288	1.7954e-03	0.0000e+00
71	EMPTY	1.5479	1.5479	1.5479	0.0000e+00	0.0000e+00
72	EMPTY	1.5527	1.5576	1.5568	1.8234e-03	0.0000e+00
73	EMPTY	1.5674	1.5723	1.5676	9.7615e-04	0.0000e+00
74	EMPTY	1.5771	1.5820	1.5772	6.9754e-04	0.0000e+00
75	EMPTY	1.5869	1.5918	1.5909	1.9103e-03	0.0000e+00
76	EMPTY	1.5967	1.6016	1.5976	1.9103e-03	0.0000e+00
77	EMPTY	1.6113	1.6162	1.6117	1.3508e-03	0.0000e+00
78	EMPTY	1.6260	1.6357	1.6306	1.5467e-03	0.0000e+00
79	EMPTY	1.6455	1.6504	1.6480	2.4662e-03	0.0000e+00
80	PAN020136	-15.5216	-14.7587	-15.0794	1.7687e-01	8.7082e-01
81	PAN050136	-29.4622	-28.5466	-28.9079	1.7809e-01	1.6816e+00
82	PAN070136	-19.0609	-18.5269	-18.7993	1.3030e-01	8.7127e-01
83	PAN080136	-9.9656	-9.4315	-9.6682	9.8796e-02	8.7034e-01
84	PAN090136	-9.9536	-9.5721	-9.7481	7.8184e-02	8.7034e-01
85	PAN100136	-9.6586	-9.2771	-9.4889	8.7079e-02	8.7032e-01
86	PAN105136	-4.7533	-4.3718	-4.6007	7.9409e-02	8.7008e-01
87	PAN110136	-4.9961	-4.5146	-4.7952	8.3422e-02	8.7008e-01
88	PAN115136	-4.2019	-3.8204	-4.0088	8.5444e-02	8.7006e-01
89	PAN120136	-4.9207	-4.5392	-4.6871	9.3969e-02	8.7008e-01
90	PAN125136	-5.2920	-4.7579	-5.0320	1.2055e-01	8.7009e-01
91	PAN130136	-4.7900	-4.3323	-4.5440	1.2090e-01	8.7007e-01
92	PAN120048	-10.2883	-9.7543	-9.9832	9.9719e-02	8.7036e-01
93	PAN130048	-9.4932	-9.1880	-9.3001	8.4013e-02	8.7031e-01
94	PAN120224	-9.4913	-8.8047	-9.2360	1.6668e-01	8.7031e-01
95	PAN130224	-9.8158	-9.2054	-9.4670	1.4856e-01	8.7032e-01
96	PAN120312	-9.5345	-9.1531	-9.2714	8.2497e-02	8.7031e-01
97	PAN130312	-9.6539	-9.2725	-9.5060	8.7273e-02	8.7032e-01
98	PAB000136	40.2565	40.5312	40.4032	6.2668e-02	5.8873e-01
99	PAB100136	43.9522	44.0896	44.0158	4.3644e-02	5.9035e-01
100	PAB125136	44.7944	45.0233	44.9009	4.8000e-02	5.9076e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2249	40.5911	40.3818	1.1419e-01	7.5676e-01
102	PRV000001	19.4833	19.6054	19.4908	2.9569e-02	7.5158e-01
103	PSR000001	44.6769	44.7989	44.7616	5.6843e-02	7.5830e-01
104	PFM000001	3.6425	3.9171	3.7901	6.6903e-02	5.0009e-01
105	PAN000136	-122.8713	-117.3782	-120.3490	1.1295e+00	4.9292e+00
106	PFM000002	3.7698	3.9218	3.8432	3.6586e-02	2.0023e-01
107	EMPTY	-0.0049	0.0000	-0.0045	1.3508e-03	0.0000e+00
108	EMPTY	-6.1426	-3.8184	-4.9752	7.0120e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0032	2.3483e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0019	2.4037e-03	0.0000e+00
112	VPW000001	100.9812	101.3719	101.1008	1.0409e-01	1.0120e+00
113	VPW000002	118.7453	119.1359	118.8489	1.2028e-01	1.0792e+00
114	VPW000003	146.2491	146.6397	146.4444	1.2607e-01	1.1951e+00
115	VPW000004	104.6522	105.0428	104.8874	8.8965e-02	1.0257e+00
116	VPW000005	139.1378	139.7238	139.4447	1.2607e-01	1.1645e+00
117	VPW000006	147.1056	147.6916	147.3687	1.2950e-01	1.1991e+00
118	IPW000001	532.1901	536.0948	534.0629	1.4890e+00	9.1330e+00
119	IPW000002	1311.2531	1317.1069	1313.6024	1.3786e+00	1.3164e+01
120	IPW000003	1336.8544	1340.7544	1338.4066	1.2575e+00	1.3319e+01
121	IPW000004	378.5063	379.9711	379.1438	3.4819e-01	3.6016e+00
122	IPW000005	253.1044	255.0573	253.9714	3.6298e-01	2.8329e+00
123	IPW000006	264.1602	266.1133	265.2065	3.4527e-01	2.8965e+00
124	EMPTY	-0.0293	-0.0146	-0.0224	3.8497e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0144	2.2196e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0179	3.3634e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0171	3.4702e-03	0.0000e+00
128	IHT000001	129.0475	131.7819	130.4027	5.9189e-01	4.3024e+00
129	IHT000002	132.7631	135.3022	134.0586	5.5054e-01	4.3136e+00
130	IHT000003	132.5631	135.2975	133.8864	5.7119e-01	4.3131e+00
131	IHT000004	130.8947	133.6291	132.1702	5.9282e-01	4.3078e+00
132	IHT000005	129.4475	131.7912	130.7628	5.7051e-01	4.3035e+00
133	IHT000006	124.4166	126.7603	125.6721	5.9402e-01	4.2883e+00
134	IHT000007	131.4053	133.7491	132.6130	5.8004e-01	4.3091e+00
135	IHT000008	130.2334	132.5772	131.2698	5.5416e-01	4.3050e+00
136	IHT000009	130.7394	132.6925	131.6481	5.2974e-01	4.3062e+00
137	IHT000010	132.5372	134.8809	133.5336	4.9674e-01	4.3120e+00
138	IHT000011	130.8594	133.3984	131.8997	5.0648e-01	4.3069e+00
139	IHT000012	128.4781	131.0172	129.6181	5.5149e-01	4.3000e+00
140	IHT000013	91.9781	94.5172	92.9666	5.3845e-01	4.2041e+00
141	IHT000014	127.4191	129.7628	128.5948	5.5313e-01	4.2969e+00
142	IHT000015	94.5266	96.6750	95.6227	5.0715e-01	4.2100e+00
143	IHT000016	88.0459	90.3897	89.1102	5.2900e-01	4.1957e+00
144	IHT000017	106.0547	108.9844	107.3780	6.7100e-01	4.2383e+00
145	IHT000018	-0.8166	1.1366	0.1520	5.0580e-01	4.1000e+00
146	IHT000019	107.5372	109.6856	108.7090	5.1982e-01	4.2417e+00
147	IHT000020	105.9512	108.2950	107.1749	5.3752e-01	4.2378e+00
148	IHT000021	0.1291	2.2775	1.1654	4.4788e-01	4.1000e+00
149	IHT000022	92.1075	94.4512	93.0442	4.7000e-01	4.2043e+00
150	IHT000023	105.5488	107.8925	106.5413	4.5428e-01	4.2362e+00
151	IHT000024	66.9116	68.8647	67.8762	4.2081e-01	4.1558e+00
152	IHT000025	103.5462	105.6947	104.4152	4.2950e-01	4.2309e+00
153	IHT000026	105.5088	107.4619	106.5252	4.5801e-01	4.2361e+00
154	IHT000027	89.5331	91.2909	90.5217	4.3199e-01	4.1987e+00
155	IHT000028	89.9944	92.1428	91.1144	4.9116e-01	4.2000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2500	108.2031	107.1508	5.0243e-01	4.2377e+00
157	IHT000030	108.9044	110.8575	109.8211	5.1860e-01	4.2445e+00
158	IHT000031	106.5206	108.4737	107.5131	5.1957e-01	4.2386e+00
159	IHT000032	107.6972	109.4550	108.5981	4.5599e-01	4.2414e+00
160	IHT000033	-1.1966	0.3659	-0.4193	4.1526e-01	4.1000e+00
161	IHT000034	94.2959	96.2491	95.1409	4.3011e-01	4.2089e+00
162	IHT000035	124.0706	126.0238	124.9914	4.2380e-01	4.2863e+00
163	IHT000036	92.9688	94.7266	93.8178	4.1919e-01	4.2060e+00

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

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Velocity 1 = 0.004000 (ft/sec)
 Velocity 2 = 0.011700 (ft/sec)
 Pressure Drop = 0.011400 (psi)
 Tsat in = 0.190094 (deg F) Tsat out = 0.197205 (deg F)
 Phi inner = 1.783806 (kBtu/hr-ft2) Phi outer = 0.123398 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0921	0.1206
1	TRF000002	0.0735	0.0956
2	TFM000001	0.1073	0.1252
3	TIN000001	0.0199	0.0233
4	TRV000001	0.5132	0.5933
5	TSR000001	2.6569	1.7343
6	TAO020136	1.0619	0.5662
7	TAO050136	0.3149	0.1709
8	TAO070136	0.4009	0.2046
9	TAO080136	0.2814	0.1385
10	TAO090136	1.6700	0.7892
11	TAO100136	4.2484	1.9403
12	TAO105136	1.0293	0.4728
13	EMPTY	0.0440	0.1064
14	TAO115136	0.5156	0.2371
15	EMPTY	0.5211	1.3861
16	TAO125136	0.4227	0.1862
17	TAO130136	0.3704	0.1744
18	EMPTY	0.0858	0.2086
19	TAO130048	0.3681	0.1625
20	TAO120224	0.4919	0.2239
21	EMPTY	0.0002	0.0005
22	TAO120312	0.2670	0.1126
23	TAO130312	0.5649	0.2473
24	EMPTY	0.0437	0.1108
25	TRT070000	0.2685	0.1426
26	TRT100000	1.7892	0.8168
27	TRT120000	0.1441	0.0610
28	TRT125000	0.2591	0.1087
29	EMPTY	0.0001	0.0002
30	EMPTY	0.0481	0.1209
31	TAF050136	0.2424	0.1940
32	TAF070136	0.3294	0.2352
33	TAF080136	0.2039	0.1383
34	TAF090136	0.1818	0.1190
35	TAF100136	0.1327	0.0830
36	TAF105136	0.0347	0.0213
37	TAF110136	0.1317	0.0791
38	TAF115136	0.1307	0.0767
39	TAF120136	0.1636	0.0942
40	TAF125136	0.2529	0.1426
41	TAF130136	0.2354	0.1302
42	TAF120048	0.1278	0.0680
43	TAF130048	0.3048	0.1584
44	TAF120224	0.0684	0.0388
45	TAF130224	0.1755	0.0962

#	Name	Abs Diff	%Diff
46	EMPTY	0.0691	0.1822
47	EMPTY	0.0354	0.0896
48	TAI130048	0.5527	0.2335
49	EMPTY	0.0565	0.1478
50	TAI130224	0.6032	0.2665
51	EMPTY	0.1916	0.4624
52	TRR130000	8.6987	6.4643
53	TSI000001	0.0140	0.0268
54	TSI000002	20.2184	24.0178
55	TSO000001	0.0097	0.0194
56	TSO000002	0.0413	0.0666
57	TAF020136	0.4000	0.4111
58	TAF120312	0.2201	0.1178
59	TAF130312	0.3445	0.1769
60	EMPTY	0.0076	0.2499
61	EMPTY	0.0087	0.2866
62	EMPTY	0.0081	0.2672
63	EMPTY	0.0094	0.3100
64	EMPTY	0.0038	0.2602
65	EMPTY	0.0044	0.2984
66	EMPTY	0.0048	0.3234
67	EMPTY	0.0030	0.2005
68	EMPTY	0.0045	0.2992
69	EMPTY	0.0020	0.1318
70	EMPTY	0.0022	0.1441
71	EMPTY	0.0046	0.2981
72	EMPTY	0.0043	0.2770
73	EMPTY	0.0037	0.2366
74	EMPTY	0.0040	0.2543
75	EMPTY	0.0040	0.2521
76	EMPTY	0.0017	0.1065
77	EMPTY	0.0038	0.2363
78	EMPTY	0.0045	0.2767
79	EMPTY	0.0036	0.2189
80	PAN020136	0.0272	0.1801
81	PAN050136	0.0233	0.0805
82	PAN070136	0.0268	0.1428
83	PAN080136	0.0078	0.0807
84	PAN090136	0.0880	0.8947
85	PAN100136	0.0949	0.9902
86	PAN105136	0.1038	2.3083
87	PAN110136	0.0539	1.1368
88	PAN115136	0.1214	2.9393
89	PAN120136	0.2931	5.8853
90	PAN125136	0.5487	12.2387
91	PAN130136	0.2445	5.1060
92	PAN120048	0.0519	0.5226
93	PAN130048	0.0435	0.4656
94	PAN120224	0.0392	0.4262
95	PAN130224	0.2374	2.4463
96	PAN120312	0.0678	0.7260
97	PAN130312	0.0825	0.8755
98	PAB000136	0.1289	0.3180
99	PAB100136	0.1617	0.3660
100	PAB125136	0.1462	0.3245

#	Name	Abs Diff	%Diff
101	PIN000001	0.1130	0.2806
102	PRV000001	0.2342	1.1873
103	PSR000001	0.1301	0.2898
104	PFM000001	0.0062	0.1633
105	PAN000136	0.3158	0.2631
106	PFM000002	0.0181	0.4688
107	EMPTY	0.0027	150.0000
108	EMPTY	0.2853	5.4234
109	EMPTY	0.0028	700.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0011	137.5000
112	VPW000001	0.0601	0.0594
113	VPW000002	0.0565	0.0475
114	VPW000003	0.0468	0.0319
115	VPW000004	0.0047	0.0045
116	VPW000005	0.0140	0.0100
117	VPW000006	0.0209	0.0142
118	IPW000001	24.5229	4.3902
119	IPW000002	28.6527	2.2299
120	IPW000003	25.8495	1.9694
121	IPW000004	4.9677	1.2933
122	IPW000005	0.3396	0.1339
123	IPW000006	2.9116	1.1101
124	EMPTY	0.0012	5.6604
125	EMPTY	0.0004	2.8571
126	EMPTY	0.0008	4.6784
127	EMPTY	0.0003	1.7857
128	IHT000001	0.0310	0.0238
129	IHT000002	0.0376	0.0281
130	IHT000003	0.0381	0.0285
131	IHT000004	0.0291	0.0220
132	IHT000005	0.0224	0.0171
133	IHT000006	0.0335	0.0267
134	IHT000007	0.0110	0.0083
135	IHT000008	0.0378	0.0288
136	IHT000009	0.0014	0.0011
137	IHT000010	0.0426	0.0319
138	IHT000011	0.0144	0.0109
139	IHT000012	0.0318	0.0245
140	IHT000013	0.0315	0.0339
141	IHT000014	0.0195	0.0152
142	IHT000015	0.0289	0.0302
143	IHT000016	0.0412	0.0462
144	IHT000017	0.7374	0.6915
145	IHT000018	0.2342	284.9149
146	IHT000019	0.1719	0.1584
147	IHT000020	0.1651	0.1543
148	IHT000021	0.1809	18.3748
149	IHT000022	0.0852	0.0917
150	IHT000023	0.0863	0.0811
151	IHT000024	0.0349	0.0514
152	IHT000025	0.0486	0.0466
153	IHT000026	0.0945	0.0888
154	IHT000027	0.1018	0.1126
155	IHT000028	0.1122	0.1233

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1899	0.1775
157	IHT000030	0.2097	0.1913
158	IHT000031	0.1683	0.1568
159	IHT000032	0.2602	0.2402
160	IHT000033	0.0429	9.2817
161	IHT000034	0.1497	0.1576
162	IHT000035	0.0965	0.0773
163	IHT000036	0.1655	0.1767

Velocity 1 = 4.0688 (ft/sec) (+/- 10.6204 %)
 Velocity 2 = 4.1230 (ft/sec) (+/- 4.9413 %)
 Pressure drop = -4.6620 (psi)
 Tsat in = 268.1124 (deg F) Tsat out = 274.9019 (deg F)
 Phi inner = 100.3405 (kBtu/hr-ft2) (+/- 1.5707 %)
 Phi outer = 99.9188 (kBtu/hr-ft2) (+/- 1.5541 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.2926	77.1412	76.7890	1.9458e-01	1.9000e+00
1	TRF000002	77.0543	77.4764	77.2527	1.4405e-01	1.9000e+00
2	TFM000001	84.8939	85.7330	85.3717	2.2452e-01	1.9002e+00
3	TIN000001	84.9418	85.6782	85.2409	1.7438e-01	1.9002e+00
4	TRV000001	85.5351	86.3734	86.0089	1.9987e-01	1.9002e+00
5	TSR000001	157.7133	163.2391	160.2880	1.6840e+00	1.9055e+00
6	TAO020136	192.7833	193.7533	193.2529	2.0777e-01	1.9102e+00
7	TAO050136	200.9040	201.7694	201.3309	1.9722e-01	1.9116e+00
8	TAO070136	217.8176	218.8689	218.3876	2.4795e-01	1.9148e+00
9	TAO080136	223.5584	224.5990	224.2435	1.9906e-01	1.9160e+00
10	TAO090136	231.1683	232.2991	231.7602	2.3095e-01	1.9175e+00
11	TAO100136	237.2215	238.2553	237.8268	2.2805e-01	1.9189e+00
12	TAO105136	239.1054	240.5150	239.9176	2.5387e-01	1.9194e+00
13	EMPTY	40.9819	41.6693	41.3303	1.4071e-01	1.9012e+00
14	TAO115136	243.4898	244.8048	244.0985	2.7847e-01	1.9203e+00
15	EMPTY	32.0000	43.2713	38.3523	4.0116e+00	1.9010e+00
16	TAO125136	253.0088	254.0323	253.5861	2.2397e-01	1.9226e+00
17	TAO130136	237.8837	238.5397	238.1964	1.7019e-01	1.9190e+00
18	EMPTY	40.7527	41.4403	41.1195	1.4642e-01	1.9011e+00
19	TAO130048	251.9832	252.6360	252.2672	1.8616e-01	1.9223e+00
20	TAO120224	244.9776	245.9124	245.3145	1.9458e-01	1.9206e+00
21	EMPTY	39.3761	39.6057	39.4725	1.1446e-01	1.9010e+00
22	TAO120312	262.4756	263.3103	262.9431	1.8154e-01	1.9249e+00
23	TAO130312	254.3725	255.3029	254.7934	1.8792e-01	1.9229e+00
24	EMPTY	39.1464	40.0646	39.6102	1.8833e-01	1.9011e+00
25	TRT070000	205.6539	206.9107	206.3153	3.3977e-01	1.9125e+00
26	TRT100000	238.4633	239.4020	239.0189	2.1756e-01	1.9191e+00
27	TRT120000	261.3251	262.5295	261.7444	2.3095e-01	1.9246e+00
28	TRT125000	265.3879	266.6779	266.0885	2.0972e-01	1.9257e+00
29	EMPTY	40.0646	40.2940	40.1197	9.8971e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7893	2.1248e-01	1.9011e+00
31	TAF050136	133.2064	135.0192	134.2097	4.0940e-01	1.9028e+00
32	TAF070136	152.1394	154.3179	153.1700	4.2664e-01	1.9047e+00
33	TAF080136	161.5027	162.8808	162.2441	3.3191e-01	1.9057e+00
34	TAF090136	167.6008	169.5702	168.4917	4.2750e-01	1.9065e+00
35	TAF100136	175.8465	178.5919	176.9727	5.1130e-01	1.9077e+00
36	TAF105136	180.5561	185.5860	181.6833	7.4963e-01	1.9084e+00
37	TAF110136	186.4861	191.7080	188.6129	1.1841e+00	1.9095e+00
38	TAF115136	189.8654	192.2838	190.8795	5.0526e-01	1.9098e+00
39	TAF120136	193.9614	195.8873	194.7680	5.0692e-01	1.9105e+00
40	TAF125136	198.2566	199.8856	199.0350	3.7348e-01	1.9112e+00
41	TAF130136	202.1668	203.6078	202.9468	2.8317e-01	1.9119e+00
42	TAF120048	208.6280	210.8464	209.6620	5.2740e-01	1.9131e+00
43	TAF130048	214.7512	216.5633	215.5180	3.8923e-01	1.9142e+00
44	TAF120224	197.0630	199.5696	198.1662	6.1371e-01	1.9110e+00
45	TAF130224	204.3511	206.2814	205.1926	3.6898e-01	1.9123e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.3074	38.4572	37.9468	2.1934e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6470	1.1995e-01	1.9011e+00
48	TAI130048	262.5429	263.6547	263.1102	2.6635e-01	1.9250e+00
49	EMPTY	37.9974	38.6870	38.2641	1.9350e-01	1.9010e+00
50	TAI130224	254.1458	255.2660	254.7021	2.6858e-01	1.9228e+00
51	EMPTY	41.6693	42.3562	41.9716	1.7579e-01	1.9012e+00
52	TRR130000	126.5085	129.9519	128.1989	8.2137e-01	1.9023e+00
53	TSI000001	51.9120	52.7751	52.3829	1.8202e-01	1.9002e+00
54	TSI000002	87.1981	92.7337	89.5355	1.5066e+00	1.9003e+00
55	TSO000001	49.5457	50.5217	50.1010	2.2099e-01	1.9003e+00
56	TSO000002	63.4353	64.2910	63.8804	2.2809e-01	1.9000e+00
57	TAF020136	92.9477	93.9958	93.4255	2.6313e-01	1.9004e+00
58	TAF120312	207.2454	210.0245	208.4725	5.8085e-01	1.9129e+00
59	TAF130312	217.4266	219.5201	218.2113	4.1552e-01	1.9147e+00
60	EMPTY	3.6084	3.6328	3.6229	5.0772e-03	0.0000e+00
61	EMPTY	3.6084	3.6230	3.6151	4.2875e-03	0.0000e+00
62	EMPTY	3.5986	3.6133	3.6070	3.9508e-03	0.0000e+00
63	EMPTY	3.5986	3.6133	3.6055	3.9459e-03	0.0000e+00
64	EMPTY	1.7090	1.7139	1.7120	2.3941e-03	0.0000e+00
65	EMPTY	1.7236	1.7383	1.7259	3.1521e-03	0.0000e+00
66	EMPTY	1.7285	1.7383	1.7343	2.1364e-03	0.0000e+00
67	EMPTY	1.7432	1.7529	1.7453	2.6396e-03	0.0000e+00
68	EMPTY	1.7432	1.7578	1.7517	3.3901e-03	0.0000e+00
69	EMPTY	1.7578	1.7676	1.7623	3.2479e-03	0.0000e+00
70	EMPTY	1.7676	1.7773	1.7707	2.5648e-03	0.0000e+00
71	EMPTY	1.7822	1.7920	1.7879	2.4878e-03	0.0000e+00
72	EMPTY	1.7920	1.7969	1.7946	2.4583e-03	0.0000e+00
73	EMPTY	1.8018	1.8115	1.8064	2.9528e-03	0.0000e+00
74	EMPTY	1.8066	1.8213	1.8144	2.8058e-03	0.0000e+00
75	EMPTY	1.8213	1.8359	1.8249	2.9280e-03	0.0000e+00
76	EMPTY	1.8311	1.8359	1.8330	2.4164e-03	0.0000e+00
77	EMPTY	1.8408	1.8506	1.8446	2.2689e-03	0.0000e+00
78	EMPTY	1.8555	1.8652	1.8611	2.0598e-03	0.0000e+00
79	EMPTY	1.8750	1.8848	1.8795	1.9331e-03	0.0000e+00
80	PAN020136	-16.9712	-16.2083	-16.6065	1.6114e-01	8.7099e-01
81	PAN050136	-31.4458	-30.6829	-31.1132	1.6222e-01	1.6818e+00
82	PAN070136	-20.5868	-19.9764	-20.2679	1.3931e-01	8.7147e-01
83	PAN080136	-10.8811	-10.1182	-10.3364	1.4460e-01	8.7038e-01
84	PAN090136	-10.4114	-10.0299	-10.2176	6.5775e-02	8.7037e-01
85	PAN100136	-10.5741	-4.6232	-10.1011	8.0815e-01	8.7037e-01
86	PAN105136	-7.6525	-4.9059	-5.3881	5.9286e-01	8.7010e-01
87	PAN110136	-6.2931	2.8622	-5.2982	1.4404e+00	8.7010e-01
88	PAN115136	-6.2618	-2.4471	-4.1912	7.8731e-01	8.7006e-01
89	PAN120136	-6.5228	-4.6155	-5.4181	4.9088e-01	8.7011e-01
90	PAN125136	-6.2075	-3.2321	-4.8281	6.6294e-01	8.7008e-01
91	PAN130136	-5.0189	-3.1116	-4.3735	4.4466e-01	8.7007e-01
92	PAN120048	-11.6616	-10.5172	-11.1901	2.3002e-01	8.7045e-01
93	PAN130048	-10.2561	-8.8828	-9.6702	2.7114e-01	8.7034e-01
94	PAN120224	-12.4668	-8.2706	-9.6683	9.4054e-01	8.7034e-01
95	PAN130224	-9.9684	-8.9003	-9.5274	3.5828e-01	8.7033e-01
96	PAN120312	-10.6790	-9.0005	-9.7466	3.5795e-01	8.7034e-01
97	PAN130312	-10.5695	-9.1199	-9.8676	3.4432e-01	8.7035e-01
98	PAB000136	40.3481	40.6227	40.5019	6.5238e-02	5.8877e-01
99	PAB100136	44.1353	44.4558	44.3533	5.8899e-02	5.9050e-01
100	PAB125136	45.2521	45.4352	45.3391	4.4593e-02	5.9097e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1028	40.5911	40.3274	1.1920e-01	7.5675e-01
102	PRV000001	19.4833	19.6054	19.5980	2.9284e-02	7.5160e-01
103	PSR000001	45.0431	45.1651	45.1627	1.7263e-02	7.5845e-01
104	PFM000001	2.3607	2.6354	2.4907	7.4194e-02	5.0004e-01
105	PAN000136	-132.0266	-126.5334	-129.0695	1.1923e+00	4.9306e+00
106	PFM000002	2.5027	2.6378	2.5591	2.8681e-02	2.0010e-01
107	EMPTY	-0.0049	0.0000	-0.0047	9.6655e-04	0.0000e+00
108	EMPTY	-6.2012	-3.8281	-4.4539	6.1962e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0023	2.4642e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0009	1.8950e-03	0.0000e+00
112	VPW000001	100.5906	101.7625	101.1961	2.7692e-01	1.0123e+00
113	VPW000002	118.5500	119.3313	118.9796	1.9331e-01	1.0797e+00
114	VPW000003	146.0538	147.2256	146.6748	2.6672e-01	1.1961e+00
115	VPW000004	104.4569	105.4334	104.9842	2.2408e-01	1.0261e+00
116	VPW000005	138.7472	140.3097	139.5752	3.3146e-01	1.1651e+00
117	VPW000006	146.7150	148.2775	147.5587	3.8549e-01	1.2000e+00
118	IPW000001	538.0472	545.8566	542.4984	1.8933e+00	9.1639e+00
119	IPW000002	1295.6429	1303.4480	1299.3896	2.2932e+00	1.3076e+01
120	IPW000003	1323.2045	1334.9044	1328.9375	2.6548e+00	1.3260e+01
121	IPW000004	377.5297	381.4359	379.6193	9.6170e-01	3.6047e+00
122	IPW000005	252.1279	255.5455	253.7392	6.8516e-01	2.8316e+00
123	IPW000006	262.6953	265.6250	264.3066	6.4875e-01	2.8913e+00
124	EMPTY	-0.0293	-0.0195	-0.0222	2.6488e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0150	2.5800e-03	0.0000e+00
126	EMPTY	-0.0293	-0.0146	-0.0189	3.2178e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0172	3.4513e-03	0.0000e+00
128	IHT000001	129.2428	131.5866	130.1842	6.4197e-01	4.3017e+00
129	IHT000002	132.9584	135.3022	133.9116	6.2470e-01	4.3131e+00
130	IHT000003	132.7584	134.9069	133.7506	5.5361e-01	4.3126e+00
131	IHT000004	131.0900	133.8244	132.0548	6.0927e-01	4.3074e+00
132	IHT000005	129.6428	132.1819	130.6271	5.8255e-01	4.3031e+00
133	IHT000006	124.4166	127.1509	125.6118	6.3090e-01	4.2881e+00
134	IHT000007	131.4053	133.7491	132.5615	5.7160e-01	4.3090e+00
135	IHT000008	129.8428	132.3819	131.2022	5.5237e-01	4.3048e+00
136	IHT000009	130.3488	132.4972	131.5284	5.7040e-01	4.3058e+00
137	IHT000010	132.1466	135.0762	133.4200	5.9483e-01	4.3116e+00
138	IHT000011	130.4688	133.3984	131.8086	6.0619e-01	4.3067e+00
139	IHT000012	128.0875	131.2125	129.5640	5.9863e-01	4.2998e+00
140	IHT000013	91.7828	94.3219	92.9390	5.4224e-01	4.2040e+00
141	IHT000014	127.4191	129.7628	128.5323	5.3707e-01	4.2967e+00
142	IHT000015	94.5266	96.4797	95.5500	4.5087e-01	4.2099e+00
143	IHT000016	88.0459	90.3897	89.0420	4.5206e-01	4.1956e+00
144	IHT000017	104.8828	108.0078	106.0781	6.9658e-01	4.2350e+00
145	IHT000018	-0.8166	1.1366	0.0038	3.8662e-01	4.1000e+00
146	IHT000019	107.3419	109.2950	108.2637	4.3232e-01	4.2405e+00
147	IHT000020	105.9512	107.9044	106.7754	4.6903e-01	4.2368e+00
148	IHT000021	0.3244	2.0822	0.8634	3.9569e-01	4.1000e+00
149	IHT000022	91.9122	93.8653	92.7207	4.8168e-01	4.2035e+00
150	IHT000023	105.1581	107.3066	106.1699	4.7135e-01	4.2352e+00
151	IHT000024	66.5209	68.8647	67.5561	4.8848e-01	4.1553e+00
152	IHT000025	103.1556	105.3041	104.1908	4.9166e-01	4.2303e+00
153	IHT000026	105.1181	107.8525	106.2588	5.6684e-01	4.2355e+00
154	IHT000027	88.9472	91.8769	90.2363	6.1130e-01	4.1981e+00
155	IHT000028	89.6038	91.9475	90.8225	5.0310e-01	4.1994e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8594	107.8125	106.8398	4.6100e-01	4.2369e+00
157	IHT000030	108.3184	110.4669	109.4786	5.2409e-01	4.2436e+00
158	IHT000031	106.5206	108.2784	107.2588	4.9957e-01	4.2380e+00
159	IHT000032	107.3066	109.4550	108.2871	5.0454e-01	4.2406e+00
160	IHT000033	-1.1966	0.5612	-0.5286	4.4659e-01	4.1000e+00
161	IHT000034	93.7100	96.2491	94.9443	5.5445e-01	4.2085e+00
162	IHT000035	123.4847	126.4144	124.8011	6.3603e-01	4.2857e+00
163	IHT000036	92.5781	94.7266	93.5859	4.7080e-01	4.2055e+00

Velocity 1 = 4.0517 (ft/sec) (+/- 10.7035 %)
 Velocity 2 = 4.1160 (ft/sec) (+/- 4.9503 %)
 Pressure drop = -4.6676 (psi)
 Tsat in = 268.0192 (deg F) Tsat out = 274.8254 (deg F)
 Phi inner = 100.7713 (kBtu/hr-ft2) (+/- 1.5696 %)
 Phi outer = 100.0463 (kBtu/hr-ft2) (+/- 1.5541 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.5048	77.1412	76.8728	1.6071e-01	1.9000e+00
1	TRF000002	77.0543	77.6875	77.3558	1.6686e-01	1.9000e+00
2	TFM000001	85.6272	86.6758	86.1108	2.0727e-01	1.9002e+00
3	TIN000001	85.7841	86.4145	86.1270	1.7129e-01	1.9002e+00
4	TRV000001	86.1634	87.1050	86.6866	2.0808e-01	1.9002e+00
5	TSR000001	153.3559	161.1698	157.9774	2.4489e+00	1.9052e+00
6	TAO020136	194.2391	195.2077	194.6661	2.3314e-01	1.9104e+00
7	TAO050136	201.2889	202.0560	201.7212	1.8289e-01	1.9117e+00
8	TAO070136	214.7527	215.7098	215.2957	2.0913e-01	1.9142e+00
9	TAO080136	224.3145	225.4480	224.7850	2.3731e-01	1.9161e+00
10	TAO090136	231.6394	232.9581	232.3720	3.3316e-01	1.9177e+00
11	TAO100136	237.6918	238.9131	238.3645	2.6730e-01	1.9190e+00
12	TAO105136	241.1720	242.6735	241.9726	3.5216e-01	1.9198e+00
13	EMPTY	40.9819	41.4403	41.3327	1.2465e-01	1.9012e+00
14	TAO115136	246.1212	247.3406	246.7260	2.5409e-01	1.9209e+00
15	EMPTY	32.0000	43.2713	37.9068	3.4451e+00	1.9010e+00
16	TAO125136	254.4955	255.0537	254.7423	1.4020e-01	1.9229e+00
17	TAO130136	238.9073	239.6512	239.2133	1.6908e-01	1.9192e+00
18	EMPTY	40.7527	41.4403	41.1129	1.4794e-01	1.9011e+00
19	TAO130048	253.0992	254.0286	253.5050	2.0751e-01	1.9226e+00
20	TAO120224	247.0344	247.8758	247.4942	2.2147e-01	1.9211e+00
21	EMPTY	39.1464	39.6057	39.4885	1.2507e-01	1.9011e+00
22	TAO120312	264.8840	265.8090	265.3296	2.0920e-01	1.9255e+00
23	TAO130312	255.6725	256.4158	256.0781	1.7346e-01	1.9232e+00
24	EMPTY	39.1464	39.8352	39.5963	1.6869e-01	1.9011e+00
25	TRT070000	201.7814	203.5241	202.4654	3.4773e-01	1.9118e+00
26	TRT100000	239.1197	240.1506	239.7587	2.0663e-01	1.9193e+00
27	TRT120000	262.7137	263.5474	263.1694	2.1936e-01	1.9250e+00
28	TRT125000	266.4915	267.5014	266.9724	2.2051e-01	1.9260e+00
29	EMPTY	39.8352	40.2940	40.1068	1.1155e-01	1.9011e+00
30	EMPTY	39.3761	40.2940	39.7649	2.1573e-01	1.9011e+00
31	TAF050136	134.3142	135.6231	134.9698	3.2942e-01	1.9028e+00
32	TAF070136	152.9333	154.9120	153.9425	4.7854e-01	1.9047e+00
33	TAF080136	162.1928	165.6264	163.4731	5.4951e-01	1.9059e+00
34	TAF090136	169.2747	171.3391	170.4327	4.5059e-01	1.9068e+00
35	TAF100136	177.5142	180.4513	179.0191	7.7657e-01	1.9080e+00
36	TAF105136	182.1051	187.2252	184.0257	1.2470e+00	1.9087e+00
37	TAF110136	188.5203	195.1789	191.5309	1.5678e+00	1.9099e+00
38	TAF115136	191.7996	196.7229	193.7022	1.5248e+00	1.9103e+00
39	TAF120136	195.9830	198.0957	196.8288	5.2478e-01	1.9108e+00
40	TAF125136	200.2690	201.4186	200.7924	2.3131e-01	1.9115e+00
41	TAF130136	203.6074	205.0479	204.4247	3.1551e-01	1.9121e+00
42	TAF120048	209.8816	213.3474	211.0615	6.6405e-01	1.9134e+00
43	TAF130048	216.2770	219.1346	217.5276	8.3873e-01	1.9146e+00
44	TAF120224	198.7020	203.8015	200.2136	1.0959e+00	1.9114e+00
45	TAF130224	205.7986	207.1489	206.4859	3.1523e-01	1.9125e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9833	2.3189e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5916	1.0897e-01	1.9011e+00
48	TAI130048	263.6547	264.7652	264.0927	2.5746e-01	1.9252e+00
49	EMPTY	37.9974	38.6870	38.2836	2.1260e-01	1.9010e+00
50	TAI130224	255.3585	256.3840	255.7909	2.5509e-01	1.9231e+00
51	EMPTY	41.4403	42.1273	41.7955	1.8142e-01	1.9012e+00
52	TRR130000	130.5586	132.9839	131.5407	4.5131e-01	1.9025e+00
53	TSI000001	51.8049	52.5599	52.1070	2.0169e-01	1.9002e+00
54	TSI000002	131.1194	132.1308	131.5939	2.4876e-01	1.9026e+00
55	TSO000001	49.5452	50.5228	50.0631	2.2832e-01	1.9003e+00
56	TSO000002	63.0072	64.1843	63.6253	2.2728e-01	1.9000e+00
57	TAF020136	89.3671	90.1035	89.7476	1.8445e-01	1.9003e+00
58	TAF120312	208.7793	212.7978	210.2586	6.8167e-01	1.9132e+00
59	TAF130312	218.9491	221.0393	219.8414	4.2216e-01	1.9151e+00
60	EMPTY	3.6523	3.6768	3.6632	5.2044e-03	0.0000e+00
61	EMPTY	3.6475	3.6621	3.6543	4.2190e-03	0.0000e+00
62	EMPTY	3.6377	3.6523	3.6455	3.2934e-03	0.0000e+00
63	EMPTY	3.6377	3.6475	3.6433	2.9901e-03	0.0000e+00
64	EMPTY	1.7285	1.7285	1.7285	0.0000e+00	0.0000e+00
65	EMPTY	1.7383	1.7432	1.7425	1.7263e-03	0.0000e+00
66	EMPTY	1.7480	1.7529	1.7492	2.1215e-03	0.0000e+00
67	EMPTY	1.7578	1.7627	1.7606	2.4414e-03	0.0000e+00
68	EMPTY	1.7627	1.7725	1.7669	1.9934e-03	0.0000e+00
69	EMPTY	1.7725	1.7773	1.7772	6.9754e-04	0.0000e+00
70	EMPTY	1.7822	1.7920	1.7860	2.2871e-03	0.0000e+00
71	EMPTY	1.7969	1.8018	1.8017	6.9754e-04	0.0000e+00
72	EMPTY	1.8066	1.8115	1.8076	1.9883e-03	0.0000e+00
73	EMPTY	1.8164	1.8213	1.8202	2.0584e-03	0.0000e+00
74	EMPTY	1.8262	1.8311	1.8279	2.3483e-03	0.0000e+00
75	EMPTY	1.8359	1.8408	1.8381	2.4538e-03	0.0000e+00
76	EMPTY	1.8408	1.8457	1.8456	6.9754e-04	0.0000e+00
77	EMPTY	1.8555	1.8652	1.8576	2.6370e-03	0.0000e+00
78	EMPTY	1.8701	1.8750	1.8745	1.4934e-03	0.0000e+00
79	EMPTY	1.8896	1.8945	1.8902	1.6172e-03	0.0000e+00
80	PAN020136	-17.2001	-16.2845	-16.6395	1.7726e-01	8.7099e-01
81	PAN050136	-31.4458	-30.6829	-31.1064	1.9267e-01	1.6818e+00
82	PAN070136	-21.1208	-16.2380	-20.4046	8.0724e-01	8.7149e-01
83	PAN080136	-13.2462	-6.6849	-10.7379	1.0030e+00	8.7041e-01
84	PAN090136	-13.3868	-4.5367	-9.6313	1.4797e+00	8.7033e-01
85	PAN100136	-13.0918	-5.0809	-10.3732	1.4244e+00	8.7032e-01
86	PAN105136	-7.6525	-0.7097	-5.3636	1.0999e+00	8.7010e-01
87	PAN110136	-6.3694	4.7695	-4.8824	1.5854e+00	8.7009e-01
88	PAN115136	-6.2618	-3.0575	-4.3934	6.6368e-01	8.7007e-01
89	PAN120136	-6.2177	-4.3866	-5.3286	5.0043e-01	8.7010e-01
90	PAN125136	-5.5972	-3.6135	-4.4138	3.8467e-01	8.7007e-01
91	PAN130136	-4.5612	-3.4167	-4.1252	3.0077e-01	8.7006e-01
92	PAN120048	-11.5853	-9.6780	-10.7274	3.8005e-01	8.7041e-01
93	PAN130048	-10.4850	-7.2043	-9.5788	5.4632e-01	8.7033e-01
94	PAN120224	-12.4668	-4.0745	-9.6408	1.2334e+00	8.7033e-01
95	PAN130224	-12.7150	-8.2136	-9.1105	8.7925e-01	8.7030e-01
96	PAN120312	-12.3574	-9.0768	-9.8210	7.1883e-01	8.7035e-01
97	PAN130312	-10.4169	-8.2043	-9.7115	4.0746e-01	8.7034e-01
98	PAB000136	40.3023	40.5770	40.4387	5.7213e-02	5.8874e-01
99	PAB100136	43.9522	44.4100	44.3306	7.4034e-02	5.9049e-01
100	PAB125136	45.2064	45.3895	45.2821	4.9046e-02	5.9094e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1028	40.4690	40.3420	1.0850e-01	7.5675e-01
102	PRV000001	19.4833	19.6054	19.5032	4.5586e-02	7.5158e-01
103	PSR000001	45.0431	45.1651	45.1128	6.1035e-02	7.5843e-01
104	PFM000001	2.3607	2.6354	2.4691	7.1587e-02	5.0004e-01
105	PAN000136	-132.0266	-126.9912	-129.2240	1.2062e+00	4.9306e+00
106	PFM000002	2.5196	2.5871	2.5499	2.0686e-02	2.0010e-01
107	EMPTY	-0.0049	0.0000	-0.0048	6.9754e-04	0.0000e+00
108	EMPTY	-6.1963	-3.8379	-4.6637	6.8654e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0041	1.8234e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0031	2.3783e-03	0.0000e+00
112	VPW000001	100.7859	101.3719	101.0889	1.3846e-01	1.0119e+00
113	VPW000002	118.5500	119.1359	118.9007	1.3210e-01	1.0794e+00
114	VPW000003	146.2491	146.8350	146.6357	1.5176e-01	1.1959e+00
115	VPW000004	104.6522	105.2381	104.9392	1.3284e-01	1.0259e+00
116	VPW000005	139.1378	139.7238	139.5204	1.6418e-01	1.1648e+00
117	VPW000006	147.3009	147.8869	147.5401	1.5058e-01	1.1999e+00
118	IPW000001	532.1901	538.0472	535.1787	1.3279e+00	9.1370e+00
119	IPW000002	1307.3506	1313.2043	1311.0540	1.6540e+00	1.3149e+01
120	IPW000003	1332.9545	1338.8044	1335.6212	1.6743e+00	1.3302e+01
121	IPW000004	377.5297	379.4828	378.6854	4.7481e-01	3.5986e+00
122	IPW000005	253.1044	254.5691	253.7820	3.4258e-01	2.8319e+00
123	IPW000006	264.1602	265.6250	264.8577	3.7293e-01	2.8945e+00
124	EMPTY	-0.0293	-0.0146	-0.0225	3.9639e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0159	2.5944e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0190	3.1902e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	3.1679e-03	0.0000e+00
128	IHT000001	129.2428	131.5866	130.2393	5.6416e-01	4.3019e+00
129	IHT000002	132.9584	134.9116	133.8633	5.5486e-01	4.3130e+00
130	IHT000003	132.9538	134.9069	133.7390	5.4880e-01	4.3126e+00
131	IHT000004	130.8947	133.0431	132.0027	5.7275e-01	4.3073e+00
132	IHT000005	129.4475	131.7912	130.5396	5.6652e-01	4.3028e+00
133	IHT000006	124.6119	126.5650	125.4808	5.3349e-01	4.2877e+00
134	IHT000007	131.6006	133.7491	132.4217	5.5670e-01	4.3085e+00
135	IHT000008	129.8428	132.1866	131.0346	5.1712e-01	4.3043e+00
136	IHT000009	130.1534	132.6925	131.3810	5.8729e-01	4.3054e+00
137	IHT000010	132.1466	134.8809	133.3901	5.5342e-01	4.3115e+00
138	IHT000011	130.4688	133.3984	131.7164	5.3461e-01	4.3064e+00
139	IHT000012	128.2828	131.0172	129.4347	5.3525e-01	4.2995e+00
140	IHT000013	91.7828	93.9313	92.7912	4.5691e-01	4.2037e+00
141	IHT000014	127.4191	129.7628	128.3397	4.8338e-01	4.2962e+00
142	IHT000015	94.5266	96.6750	95.4154	4.4763e-01	4.2096e+00
143	IHT000016	88.0459	89.9991	88.8431	4.3825e-01	4.1952e+00
144	IHT000017	105.2734	107.6172	106.2341	5.6500e-01	4.2354e+00
145	IHT000018	-0.8166	1.1366	-0.0752	4.3304e-01	4.1000e+00
146	IHT000019	107.5372	109.4903	108.4898	4.6087e-01	4.2411e+00
147	IHT000020	106.1466	107.9044	106.9039	4.3056e-01	4.2371e+00
148	IHT000021	0.1291	1.6916	0.9103	3.9467e-01	4.1000e+00
149	IHT000022	91.9122	93.4747	92.7213	4.0265e-01	4.2035e+00
150	IHT000023	105.3534	107.1113	106.2503	3.9451e-01	4.2354e+00
151	IHT000024	66.9116	68.6694	67.6211	3.9203e-01	4.1554e+00
152	IHT000025	103.3509	105.3041	104.2318	4.1647e-01	4.2304e+00
153	IHT000026	105.3134	107.4619	106.3299	4.2188e-01	4.2356e+00
154	IHT000027	88.9472	91.2909	90.2546	4.7875e-01	4.1982e+00
155	IHT000028	89.7991	91.9475	90.9430	5.5957e-01	4.1997e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8594	108.0078	107.0273	5.2814e-01	4.2374e+00
157	IHT000030	108.3134	110.6622	109.5820	5.3056e-01	4.2439e+00
158	IHT000031	106.1300	108.2784	107.2938	5.4220e-01	4.2381e+00
159	IHT000032	106.9159	109.4550	108.3549	6.0554e-01	4.2408e+00
160	IHT000033	-1.5872	0.3659	-0.5150	4.9655e-01	4.1000e+00
161	IHT000034	93.9053	96.0537	94.9616	5.2879e-01	4.2085e+00
162	IHT000035	123.8753	126.0238	124.8041	5.0355e-01	4.2857e+00
163	IHT000036	92.7734	94.9219	93.7580	4.9948e-01	4.2058e+00

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Velocity 1 = 0.017100 (ft/sec)

Velocity 2 = 0.007000 (ft/sec)

Pressure Drop = 0.005600 (psi)

Tsat in = 0.093201 (deg F) Tsat out = 0.076477 (deg F)

Phi inner = 0.430801 (kBtu/hr-ft2) Phi outer = 0.127502 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0838	0.1091
1	TRF000002	0.1031	0.1335
2	TFM000001	0.7391	0.8657
3	TIN000001	0.8861	1.0395
4	TRV000001	0.6777	0.7879
5	TSR000001	2.3106	1.4415
6	TAO020136	1.4132	0.7313
7	TAO050136	0.3903	0.1939
8	TAO070136	3.0919	1.4158
9	TAO080136	0.5415	0.2415
10	TAO090136	0.6118	0.2640
11	TAO100136	0.5377	0.2261
12	TAO105136	2.0550	0.8565
13	EMPTY	0.0024	0.0058
14	TAO115136	2.6275	1.0764
15	EMPTY	0.4455	1.1616
16	TAO125136	1.1562	0.4559
17	TAO130136	1.0169	0.4269
18	EMPTY	0.0066	0.0160
19	TAO130048	1.2378	0.4907
20	TAO120224	2.1797	0.8885
21	EMPTY	0.0160	0.0405
22	TAO120312	2.3865	0.9076
23	TAO130312	1.2847	0.5042
24	EMPTY	0.0139	0.0351
25	TRT070000	3.8499	1.8660
26	TRT100000	0.7398	0.3095
27	TRT120000	1.4250	0.5444
28	TRT125000	0.8839	0.3322
29	EMPTY	0.0129	0.0322
30	EMPTY	0.0244	0.0613
31	TAF050136	0.7601	0.5664
32	TAF070136	0.7725	0.5043
33	TAF080136	1.2290	0.7575
34	TAF090136	1.9410	1.1520
35	TAF100136	2.0464	1.1563
36	TAF105136	2.3424	1.2893
37	TAF110136	2.9180	1.5471
38	TAF115136	2.8227	1.4788
39	TAF120136	2.0608	1.0581
40	TAF125136	1.7574	0.8830
41	TAF130136	1.4779	0.7282
42	TAF120048	1.3995	0.6675
43	TAF130048	2.0096	0.9325
44	TAF120224	2.0474	1.0332
45	TAF130224	1.2933	0.6303

#	Name	Abs Diff	%Diff
46	EMPTY	0.0365	0.0962
47	EMPTY	0.0554	0.1397
48	TAI130048	0.9825	0.3734
49	EMPTY	0.0195	0.0510
50	TAI130224	1.0888	0.4275
51	EMPTY	0.1761	0.4196
52	TRR130000	3.3418	2.6067
53	TSI000001	0.2759	0.5267
54	TSI000002	42.0584	46.9740
55	TSO000001	0.0379	0.0757
56	TSO000002	0.2551	0.3993
57	TAF020136	3.6779	3.9367
58	TAF120312	1.7861	0.8568
59	TAF130312	1.6301	0.7470
60	EMPTY	0.0403	1.1124
61	EMPTY	0.0392	1.0843
62	EMPTY	0.0385	1.0674
63	EMPTY	0.0378	1.0484
64	EMPTY	0.0165	0.9638
65	EMPTY	0.0166	0.9618
66	EMPTY	0.0149	0.8591
67	EMPTY	0.0153	0.8766
68	EMPTY	0.0152	0.8677
69	EMPTY	0.0149	0.8455
70	EMPTY	0.0153	0.8641
71	EMPTY	0.0138	0.7719
72	EMPTY	0.0130	0.7244
73	EMPTY	0.0138	0.7640
74	EMPTY	0.0135	0.7441
75	EMPTY	0.0132	0.7233
76	EMPTY	0.0126	0.6874
77	EMPTY	0.0130	0.7048
78	EMPTY	0.0134	0.7200
79	EMPTY	0.0107	0.5693
80	PAN020136	0.0330	0.1987
81	PAN050136	0.0068	0.0219
82	PAN070136	0.1367	0.6745
83	PAN080136	0.4015	3.8843
84	PAN090136	0.5863	5.7381
85	PAN100136	0.2721	2.6938
86	PAN105136	0.0245	0.4547
87	PAN110136	0.4158	7.8479
88	PAN115136	0.2022	4.8244
89	PAN120136	0.0895	1.6519
90	PAN125136	0.4143	8.5810
91	PAN130136	0.2483	5.6774
92	PAN120048	0.4627	4.1349
93	PAN130048	0.0914	0.9452
94	PAN120224	0.0275	0.2844
95	PAN130224	0.4169	4.3758
96	PAN120312	0.0744	0.7633
97	PAN130312	0.1561	1.5819
98	PAB000136	0.0632	0.1560
99	PAB100136	0.0227	0.0512
100	PAB125136	0.0570	0.1257

#	Name	Abs Diff	%Diff
101	PIN000001	0.0146	0.0362
102	PRV000001	0.0948	0.4837
103	PSR000001	0.0499	0.1105
104	PFM000001	0.0216	0.8672
105	PAN000136	0.1545	0.1197
106	PFM000002	0.0092	0.3595
107	EMPTY	0.0001	2.1277
108	EMPTY	0.2098	4.7105
109	EMPTY	0.0018	78.2609
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0022	244.4444
112	VPW000001	0.1072	0.1059
113	VPW000002	0.0789	0.0663
114	VPW000003	0.0391	0.0267
115	VPW000004	0.0450	0.0429
116	VPW000005	0.0548	0.0393
117	VPW000006	0.0186	0.0126
118	IPW000001	7.3197	1.3493
119	IPW000002	11.6643	0.8977
120	IPW000003	6.6837	0.5029
121	IPW000004	0.9339	0.2460
122	IPW000005	0.0428	0.0169
123	IPW000006	0.5511	0.2085
124	EMPTY	0.0003	1.3514
125	EMPTY	0.0009	6.0000
126	EMPTY	0.0001	0.5291
127	EMPTY	0.0003	1.7442
128	IHT000001	0.0551	0.0423
129	IHT000002	0.0483	0.0361
130	IHT000003	0.0116	0.0087
131	IHT000004	0.0521	0.0394
132	IHT000005	0.0875	0.0670
133	IHT000006	0.1310	0.1043
134	IHT000007	0.1398	0.1054
135	IHT000008	0.1676	0.1277
136	IHT000009	0.1474	0.1121
137	IHT000010	0.0299	0.0224
138	IHT000011	0.0922	0.0699
139	IHT000012	0.1293	0.0998
140	IHT000013	0.1478	0.1590
141	IHT000014	0.1926	0.1498
142	IHT000015	0.1346	0.1409
143	IHT000016	0.1989	0.2234
144	IHT000017	0.1560	0.1471
145	IHT000018	0.0790	2078.9473
146	IHT000019	0.2261	0.2088
147	IHT000020	0.1285	0.1203
148	IHT000021	0.0469	5.4320
149	IHT000022	0.0006	0.0006
150	IHT000023	0.0804	0.0757
151	IHT000024	0.0650	0.0962
152	IHT000025	0.0410	0.0393
153	IHT000026	0.0711	0.0669
154	IHT000027	0.0183	0.0203
155	IHT000028	0.1205	0.1327

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1875	0.1755
157	IHT000030	0.1034	0.0944
158	IHT000031	0.0350	0.0326
159	IHT000032	0.0678	0.0626
160	IHT000033	0.0136	2.5728
161	IHT000034	0.0173	0.0182
162	IHT000035	0.0030	0.0024
163	IHT000036	0.1721	0.1839

Velocity 1 = 4.0723 (ft/sec) (+/- 10.6065 %)
Velocity 2 = 4.1092 (ft/sec) (+/- 4.9593 %)
Pressure drop = -4.6461 (psi)
Tsat in = 268.0787 (deg F) Tsat out = 274.8995 (deg F)
Phi inner = 100.7339 (kBtu/hr-ft2) (+/- 1.5698 %)
Phi outer = 100.5295 (kBtu/hr-ft2) (+/- 1.5521 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.3532	77.9892	77.5440	1.4991e-01	1.9000e+00
1	TRF000002	77.6875	78.3203	78.0250	1.2786e-01	1.9000e+00
2	TFM000001	86.6764	87.5148	87.0349	1.9524e-01	1.9002e+00
3	TIN000001	86.4135	87.1493	86.7312	1.7694e-01	1.9002e+00
4	TRV000001	87.6289	88.5699	88.1286	1.9835e-01	1.9002e+00
5	TSR000001	156.9247	160.2857	159.1451	9.3587e-01	1.9053e+00
6	TAO020136	188.3086	189.2820	188.8479	1.8883e-01	1.9095e+00
7	TAO050136	201.5800	202.4438	201.9805	1.4867e-01	1.9117e+00
8	TAO070136	214.9415	215.8040	215.4569	2.2384e-01	1.9142e+00
9	TAO080136	223.6588	224.6047	224.2086	2.1657e-01	1.9160e+00
10	TAO090136	232.3945	233.5255	232.8826	2.3666e-01	1.9178e+00
11	TAO100136	238.0681	238.8198	238.4309	1.7504e-01	1.9190e+00
12	TAO105136	240.3274	241.2663	240.8364	1.9997e-01	1.9196e+00
13	EMPTY	41.2111	41.4403	41.2891	1.0964e-01	1.9011e+00
14	TAO115136	243.2052	244.0511	243.6093	2.0731e-01	1.9202e+00
15	EMPTY	32.2314	43.2713	38.6922	4.0796e+00	1.9010e+00
16	TAO125136	254.5905	255.1491	254.8900	1.4822e-01	1.9229e+00
17	TAO130136	238.4541	239.0131	238.7607	1.4255e-01	1.9191e+00
18	EMPTY	40.7527	41.4403	41.0645	1.3705e-01	1.9011e+00
19	TAO130048	253.1942	253.8454	253.5013	1.4462e-01	1.9226e+00
20	TAO120224	244.7914	245.5400	245.2126	1.6617e-01	1.9206e+00
21	EMPTY	39.3761	39.6057	39.4358	1.0172e-01	1.9010e+00
22	TAO120312	263.4953	264.3290	263.8714	1.6674e-01	1.9252e+00
23	TAO130312	255.9530	256.6032	256.2558	1.6333e-01	1.9232e+00
24	EMPTY	39.1464	39.8352	39.5827	1.8696e-01	1.9011e+00
25	TRT070000	202.6504	203.9078	203.3760	3.3935e-01	1.9119e+00
26	TRT100000	239.4973	240.5284	240.0123	2.1693e-01	1.9194e+00
27	TRT120000	261.5126	262.6236	262.0550	2.3741e-01	1.9247e+00
28	TRT125000	266.3133	267.2328	266.7783	1.8332e-01	1.9259e+00
29	EMPTY	39.8352	40.2940	40.0784	9.7338e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7204	2.2359e-01	1.9011e+00
31	TAF050136	134.9208	136.4306	135.6276	3.3606e-01	1.9029e+00
32	TAF070136	153.6294	155.5083	154.5620	4.1666e-01	1.9048e+00
33	TAF080136	162.4934	164.5535	163.3357	5.1477e-01	1.9059e+00
34	TAF090136	168.6856	170.4561	169.7423	3.9734e-01	1.9067e+00
35	TAF100136	176.7292	178.4934	177.7194	3.2367e-01	1.9078e+00
36	TAF105136	181.5298	182.7906	182.1874	3.1324e-01	1.9085e+00
37	TAF110136	186.3945	189.0071	187.8720	5.9680e-01	1.9093e+00
38	TAF115136	190.0609	191.7066	190.9961	3.3561e-01	1.9098e+00
39	TAF120136	194.4483	195.7962	195.0745	2.7449e-01	1.9105e+00
40	TAF125136	199.0276	200.0834	199.4368	2.2238e-01	1.9113e+00
41	TAF130136	203.1288	204.2810	203.5840	3.0296e-01	1.9120e+00
42	TAF120048	209.6839	214.4030	211.7137	1.3810e+00	1.9135e+00
43	TAF130048	215.8011	217.9931	216.7905	4.2130e-01	1.9145e+00
44	TAF120224	196.5816	197.7395	197.1473	2.8712e-01	1.9109e+00
45	TAF130224	204.1538	205.3125	204.7316	2.5389e-01	1.9122e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9560	1.9541e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5598	1.2271e-01	1.9011e+00
48	TAI130048	263.5624	264.6730	264.1568	2.4170e-01	1.9252e+00
49	EMPTY	37.7675	38.4572	38.1583	1.8138e-01	1.9010e+00
50	TAI130224	254.2381	255.4504	254.8520	2.5640e-01	1.9229e+00
51	EMPTY	41.2111	41.6693	41.4357	1.5689e-01	1.9012e+00
52	TRR130000	128.6391	133.4898	131.5815	9.6235e-01	1.9026e+00
53	TSI000001	52.0226	52.6704	52.3311	1.6455e-01	1.9002e+00
54	TSI000002	135.2599	136.4695	135.9235	2.4698e-01	1.9029e+00
55	TSO000001	49.8665	50.5187	50.1777	1.8727e-01	1.9003e+00
56	TSO000002	63.3284	64.3976	63.7797	2.3705e-01	1.9000e+00
57	TAF020136	88.3091	89.2565	88.7406	2.1400e-01	1.9002e+00
58	TAF120312	208.1091	212.2250	209.3449	6.6419e-01	1.9130e+00
59	TAF130312	218.5704	220.4712	219.2338	3.7897e-01	1.9149e+00
60	EMPTY	3.6230	3.6426	3.6312	4.0204e-03	0.0000e+00
61	EMPTY	3.6133	3.6279	3.6223	3.4681e-03	0.0000e+00
62	EMPTY	3.6084	3.6182	3.6124	2.5515e-03	0.0000e+00
63	EMPTY	3.6084	3.6133	3.6112	2.4344e-03	0.0000e+00
64	EMPTY	1.7139	1.7188	1.7153	2.2603e-03	0.0000e+00
65	EMPTY	1.7285	1.7334	1.7287	9.6655e-04	0.0000e+00
66	EMPTY	1.7334	1.7432	1.7381	1.6972e-03	0.0000e+00
67	EMPTY	1.7480	1.7480	1.7480	0.0000e+00	0.0000e+00
68	EMPTY	1.7529	1.7578	1.7535	1.6028e-03	0.0000e+00
69	EMPTY	1.7627	1.7676	1.7657	2.3941e-03	0.0000e+00
70	EMPTY	1.7725	1.7773	1.7728	1.1714e-03	0.0000e+00
71	EMPTY	1.7822	1.7920	1.7907	2.3778e-03	0.0000e+00
72	EMPTY	1.7969	1.8018	1.7970	6.9053e-04	0.0000e+00
73	EMPTY	1.8066	1.8115	1.8082	2.3008e-03	0.0000e+00
74	EMPTY	1.8164	1.8164	1.8164	0.0000e+00	0.0000e+00
75	EMPTY	1.8262	1.8311	1.8265	1.1714e-03	0.0000e+00
76	EMPTY	1.8311	1.8359	1.8354	1.4797e-03	0.0000e+00
77	EMPTY	1.8457	1.8506	1.8461	1.3381e-03	0.0000e+00
78	EMPTY	1.8604	1.8750	1.8621	2.9197e-03	0.0000e+00
79	EMPTY	1.8799	1.8945	1.8803	2.1702e-03	0.0000e+00
80	PAN020136	-16.8949	-16.3608	-16.6279	1.4724e-01	8.7099e-01
81	PAN050136	-31.5984	-30.6829	-31.1681	1.8157e-01	1.6818e+00
82	PAN070136	-20.5868	-20.1290	-20.3243	1.0697e-01	8.7148e-01
83	PAN080136	-11.1100	-10.1182	-10.5164	2.8350e-01	8.7040e-01
84	PAN090136	-10.3351	-9.4196	-9.9948	2.7322e-01	8.7036e-01
85	PAN100136	-10.2689	-10.0400	-10.1942	6.6279e-02	8.7037e-01
86	PAN105136	-5.0585	-4.7533	-4.9272	7.8655e-02	8.7009e-01
87	PAN110136	-5.3013	-4.9961	-5.1502	7.9332e-02	8.7010e-01
88	PAN115136	-4.6597	-4.3545	-4.5437	6.0173e-02	8.7007e-01
89	PAN120136	-6.2939	-5.2258	-5.5005	2.1907e-01	8.7011e-01
90	PAN125136	-4.8342	-3.6898	-4.6877	1.9426e-01	8.7008e-01
91	PAN130136	-5.0189	-4.6375	-4.8862	8.9625e-02	8.7009e-01
92	PAN120048	-12.1194	-3.8796	-11.1779	1.4915e+00	8.7045e-01
93	PAN130048	-12.6212	-8.8065	-9.8151	9.1127e-01	8.7035e-01
94	PAN120224	-10.1017	-9.7202	-9.9491	8.9877e-02	8.7036e-01
95	PAN130224	-10.1210	-9.7395	-9.9470	6.5467e-02	8.7036e-01
96	PAN120312	-11.5182	-9.7634	-10.2944	3.5450e-01	8.7038e-01
97	PAN130312	-10.4169	-8.2806	-9.7836	4.0671e-01	8.7034e-01
98	PAB000136	40.3481	40.6227	40.4790	6.9829e-02	5.8876e-01
99	PAB100136	44.3185	44.4558	44.3761	4.3190e-02	5.9051e-01
100	PAB125136	45.2521	45.4352	45.3373	4.6250e-02	5.9097e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9808	40.3470	40.1883	1.0243e-01	7.5670e-01
102	PRV000001	19.6054	19.6054	19.6054	7.7069e-06	7.5160e-01
103	PSR000001	45.1651	45.2872	45.1725	2.9284e-02	7.5845e-01
104	PFM000001	2.3607	2.6354	2.4944	6.4632e-02	5.0004e-01
105	PAN000136	-131.5688	-125.6179	-128.6300	1.1811e+00	4.9305e+00
106	PFM000002	2.4858	2.6040	2.5408	2.6834e-02	2.0010e-01
107	EMPTY	-0.0049	0.0049	0.0022	3.9717e-03	0.0000e+00
108	EMPTY	-6.8164	-3.8623	-5.4173	8.0129e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0005	1.4797e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	100.7859	101.5672	101.2469	1.9234e-01	1.0125e+00
113	VPW000002	118.7453	119.3313	119.0890	1.6057e-01	1.0801e+00
114	VPW000003	146.4444	147.2256	146.8467	1.5985e-01	1.1968e+00
115	VPW000004	104.8475	105.6288	105.2264	1.8258e-01	1.0270e+00
116	VPW000005	139.1378	140.3097	139.8096	2.0939e-01	1.1661e+00
117	VPW000006	147.3009	148.2775	147.7853	1.9022e-01	1.2010e+00
118	IPW000001	536.0948	541.9518	538.7111	1.7015e+00	9.1500e+00
119	IPW000002	1309.3019	1317.1069	1313.4773	2.1233e+00	1.3164e+01
120	IPW000003	1327.1045	1336.8544	1332.9547	2.5226e+00	1.3285e+01
121	IPW000004	378.5063	381.9242	380.3420	6.6585e-01	3.6095e+00
122	IPW000005	252.1279	255.5455	254.0907	6.1985e-01	2.8336e+00
123	IPW000006	263.1836	265.6250	264.5703	5.0648e-01	2.8928e+00
124	EMPTY	-0.0293	-0.0098	-0.0201	4.2590e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0121	2.9986e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0159	3.2434e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0145	3.2658e-03	0.0000e+00
128	IHT000001	128.6569	131.5866	130.2701	5.6746e-01	4.3020e+00
129	IHT000002	132.5678	135.6928	134.0054	5.6049e-01	4.3134e+00
130	IHT000003	132.3678	135.4928	133.8522	5.6909e-01	4.3130e+00
131	IHT000004	130.8947	133.6291	132.2267	5.9410e-01	4.3079e+00
132	IHT000005	129.2522	131.9866	130.6896	5.5909e-01	4.3033e+00
133	IHT000006	124.4166	126.9556	125.7017	5.7870e-01	4.2884e+00
134	IHT000007	131.2100	133.9444	132.6201	5.7357e-01	4.3092e+00
135	IHT000008	129.8428	132.7725	131.2842	5.7574e-01	4.3051e+00
136	IHT000009	130.1534	133.0831	131.6026	5.7601e-01	4.3060e+00
137	IHT000010	132.3419	135.2716	133.5645	6.0594e-01	4.3121e+00
138	IHT000011	130.8594	133.7891	132.0547	5.9535e-01	4.3074e+00
139	IHT000012	128.6734	131.0172	129.7124	5.4310e-01	4.3003e+00
140	IHT000013	91.9781	94.3219	93.0836	5.0933e-01	4.2043e+00
141	IHT000014	127.6144	130.1534	128.6963	5.6938e-01	4.2972e+00
142	IHT000015	94.5266	97.0656	95.7102	5.5160e-01	4.2102e+00
143	IHT000016	87.8506	89.9991	89.0069	4.8783e-01	4.1955e+00
144	IHT000017	104.2969	107.6172	105.8984	7.4032e-01	4.2346e+00
145	IHT000018	-1.2072	0.7459	-0.1681	4.2579e-01	4.1000e+00
146	IHT000019	107.5372	109.2950	108.2520	3.7768e-01	4.2405e+00
147	IHT000020	106.1466	107.5137	106.8340	3.5125e-01	4.2369e+00
148	IHT000021	0.1291	1.4963	0.8673	3.4239e-01	4.1000e+00
149	IHT000022	91.7169	93.6700	92.5372	4.2682e-01	4.2031e+00
150	IHT000023	105.5488	107.1113	106.2754	4.2323e-01	4.2355e+00
151	IHT000024	66.7162	68.4741	67.5053	4.3218e-01	4.1552e+00
152	IHT000025	103.3509	105.3041	104.1400	4.7180e-01	4.2302e+00
153	IHT000026	105.5088	107.4619	106.3174	4.7680e-01	4.2356e+00
154	IHT000027	89.5331	91.2909	90.1894	4.7639e-01	4.1980e+00
155	IHT000028	89.6038	91.9475	90.7483	4.9601e-01	4.1992e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8594	108.2031	106.9844	5.1230e-01	4.2373e+00
157	IHT000030	108.3184	110.6622	109.4473	5.1492e-01	4.2436e+00
158	IHT000031	106.3253	108.4737	107.2784	5.0012e-01	4.2380e+00
159	IHT000032	107.5019	109.4550	108.4316	5.1533e-01	4.2410e+00
160	IHT000033	-1.3919	0.3659	-0.4739	4.1806e-01	4.1000e+00
161	IHT000034	94.1006	96.2491	95.1943	4.6186e-01	4.2091e+00
162	IHT000035	123.8753	126.0238	124.9925	4.4997e-01	4.2863e+00
163	IHT000036	92.5781	94.7266	93.8086	4.3090e-01	4.2059e+00

Velocity 1 = 4.1199 (ft/sec) (+/- 10.3819 %)
Velocity 2 = 4.1359 (ft/sec) (+/- 4.9255 %)
Pressure drop = -4.6531 (psi)
Tsats in = 268.1418 (deg F) Tsats out = 274.8968 (deg F)
Phi inner = 100.5214 (kBtu/hr-ft2) (+/- 1.5703 %)
Phi outer = 100.4067 (kBtu/hr-ft2) (+/- 1.5524 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.3532	77.9892	77.6518	1.6144e-01	1.9000e+00
1	TRF000002	77.8984	78.3203	78.0965	1.3891e-01	1.9000e+00
2	TFM000001	85.3144	86.1538	85.6595	2.2144e-01	1.9002e+00
3	TIN000001	85.0462	85.6775	85.3576	1.6483e-01	1.9002e+00
4	TRV000001	86.3764	87.2132	86.6561	1.6308e-01	1.9002e+00
5	TSR000001	159.4945	161.8638	160.9134	5.7954e-01	1.9056e+00
6	TAO020136	192.2961	192.9760	192.6252	1.5833e-01	1.9101e+00
7	TAO050136	200.8128	201.5811	201.2286	1.9242e-01	1.9116e+00
8	TAO070136	214.3662	215.2278	214.7844	1.8514e-01	1.9141e+00
9	TAO080136	222.9989	223.7553	223.3313	2.0517e-01	1.9158e+00
10	TAO090136	231.3596	232.1131	231.7937	1.6527e-01	1.9176e+00
11	TAO100136	236.7527	237.5054	237.0464	1.5192e-01	1.9187e+00
12	TAO105136	239.2938	240.1397	239.7160	1.9282e-01	1.9193e+00
13	EMPTY	40.9819	41.6693	41.3093	1.4032e-01	1.9011e+00
14	TAO115136	242.3582	243.1105	242.7112	1.8165e-01	1.9200e+00
15	EMPTY	32.0000	43.2713	38.5487	3.6798e+00	1.9010e+00
16	TAO125136	253.7557	254.4068	254.0553	1.4980e-01	1.9227e+00
17	TAO130136	237.5275	238.3664	237.9194	1.8056e-01	1.9189e+00
18	EMPTY	40.7527	41.4403	41.0240	1.2086e-01	1.9011e+00
19	TAO130048	252.1729	252.8244	252.5604	1.5928e-01	1.9223e+00
20	TAO120224	244.0427	244.7924	244.3315	1.8813e-01	1.9204e+00
21	EMPTY	39.1464	39.6057	39.4370	1.1262e-01	1.9010e+00
22	TAO120312	262.4760	263.2177	262.9037	1.8126e-01	1.9249e+00
23	TAO130312	254.9327	255.5834	255.2857	1.4693e-01	1.9230e+00
24	EMPTY	39.1464	39.8352	39.5213	2.1827e-01	1.9011e+00
25	TRT070000	202.0678	203.3276	202.6787	3.0840e-01	1.9118e+00
26	TRT100000	238.5602	239.3103	238.9166	1.8946e-01	1.9191e+00
27	TRT120000	260.7718	261.6060	261.1613	2.1055e-01	1.9245e+00
28	TRT125000	264.9367	265.6729	265.2988	1.7162e-01	1.9255e+00
29	EMPTY	39.8352	40.2940	40.0928	1.0080e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7555	2.1238e-01	1.9011e+00
31	TAF050136	133.8141	135.3251	134.5340	3.8723e-01	1.9028e+00
32	TAF070136	152.3436	154.0266	153.2054	4.1659e-01	1.9047e+00
33	TAF080136	161.9069	163.5734	162.5110	3.4377e-01	1.9058e+00
34	TAF090136	167.6036	169.4730	168.4873	3.5679e-01	1.9065e+00
35	TAF100136	175.7485	177.3179	176.5431	3.4751e-01	1.9076e+00
36	TAF105136	179.9825	181.7270	180.8503	3.5214e-01	1.9083e+00
37	TAF110136	185.1351	187.2658	186.3380	5.1677e-01	1.9091e+00
38	TAF115136	188.8997	190.3521	189.7359	3.1607e-01	1.9096e+00
39	TAF120136	193.1992	194.2584	193.7881	2.6429e-01	1.9103e+00
40	TAF125136	197.5904	198.8374	198.1631	2.6051e-01	1.9110e+00
41	TAF130136	201.5911	203.0332	202.4230	2.9012e-01	1.9118e+00
42	TAF120048	208.2362	210.8408	209.2825	5.9792e-01	1.9130e+00
43	TAF130048	214.6557	216.5639	215.3610	4.0000e-01	1.9142e+00
44	TAF120224	195.1337	197.2577	195.9379	3.9444e-01	1.9107e+00
45	TAF130224	202.9932	203.8640	203.5262	2.1527e-01	1.9120e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9552	2.6417e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6010	1.0979e-01	1.9011e+00
48	TAI130048	262.4516	263.4704	263.0470	2.6398e-01	1.9249e+00
49	EMPTY	37.7675	38.6870	38.2930	2.0454e-01	1.9010e+00
50	TAI130224	253.3040	254.3311	253.8053	2.7984e-01	1.9226e+00
51	EMPTY	41.2111	41.8984	41.6319	1.7710e-01	1.9012e+00
52	TRR130000	133.3895	136.3116	134.9485	6.5638e-01	1.9028e+00
53	TSI000001	51.9149	52.4551	52.2015	1.5342e-01	1.9002e+00
54	TSI000002	134.5542	135.8656	135.2668	2.7581e-01	1.9029e+00
55	TSO000001	49.6496	50.5176	50.0817	2.0487e-01	1.9003e+00
56	TSO000002	63.0071	64.0770	63.6165	2.2823e-01	1.9000e+00
57	TAF020136	88.3091	89.1502	88.7403	1.8129e-01	1.9002e+00
58	TAF120312	206.9580	211.3648	208.4921	1.2236e+00	1.9129e+00
59	TAF130312	217.1435	219.2358	218.1358	4.2764e-01	1.9147e+00
60	EMPTY	3.5938	3.6084	3.6012	4.2406e-03	0.0000e+00
61	EMPTY	3.5889	3.5986	3.5926	2.5471e-03	0.0000e+00
62	EMPTY	3.5791	3.5889	3.5842	2.4331e-03	0.0000e+00
63	EMPTY	3.5791	3.5889	3.5829	2.6865e-03	0.0000e+00
64	EMPTY	1.6992	1.7041	1.7024	2.3483e-03	0.0000e+00
65	EMPTY	1.7139	1.7188	1.7146	1.7263e-03	0.0000e+00
66	EMPTY	1.7236	1.7285	1.7242	1.6172e-03	0.0000e+00
67	EMPTY	1.7334	1.7383	1.7347	2.1781e-03	0.0000e+00
68	EMPTY	1.7383	1.7432	1.7415	2.3483e-03	0.0000e+00
69	EMPTY	1.7480	1.7578	1.7529	1.4095e-03	0.0000e+00
70	EMPTY	1.7578	1.7627	1.7608	2.4037e-03	0.0000e+00
71	EMPTY	1.7773	1.7822	1.7775	9.7615e-04	0.0000e+00
72	EMPTY	1.7822	1.7871	1.7834	2.1215e-03	0.0000e+00
73	EMPTY	1.7969	1.7969	1.7969	0.0000e+00	0.0000e+00
74	EMPTY	1.8018	1.8066	1.8040	2.4621e-03	0.0000e+00
75	EMPTY	1.8115	1.8213	1.8147	2.5510e-03	0.0000e+00
76	EMPTY	1.8213	1.8262	1.8214	6.9754e-04	0.0000e+00
77	EMPTY	1.8311	1.8359	1.8350	1.9103e-03	0.0000e+00
78	EMPTY	1.8457	1.8555	1.8506	1.4095e-03	0.0000e+00
79	EMPTY	1.8604	1.8701	1.8685	2.5191e-03	0.0000e+00
80	PAN020136	-16.9712	-16.0557	-16.5383	2.3587e-01	8.7098e-01
81	PAN050136	-31.4458	-30.5303	-31.0129	2.4196e-01	1.6818e+00
82	PAN070136	-20.6631	-20.0527	-20.3268	1.2451e-01	8.7148e-01
83	PAN080136	-10.8811	-9.8130	-10.5681	2.4929e-01	8.7040e-01
84	PAN090136	-11.1743	-9.5721	-9.8758	2.8947e-01	8.7035e-01
85	PAN100136	-10.3452	-9.5823	-10.1599	1.2263e-01	8.7037e-01
86	PAN105136	-5.0585	-4.6770	-4.8732	7.3046e-02	8.7009e-01
87	PAN110136	-5.3013	-4.9961	-5.1378	7.9409e-02	8.7009e-01
88	PAN115136	-4.5834	-4.3545	-4.4900	6.6558e-02	8.7007e-01
89	PAN120136	-5.6073	-5.2258	-5.4251	8.5038e-02	8.7011e-01
90	PAN125136	-4.8342	-4.4528	-4.6723	9.2963e-02	8.7008e-01
91	PAN130136	-4.9426	-4.7137	-4.8570	6.3513e-02	8.7008e-01
92	PAN120048	-11.8142	-10.8224	-11.2506	2.4117e-01	8.7045e-01
93	PAN130048	-10.4087	-9.1117	-9.7314	2.3132e-01	8.7034e-01
94	PAN120224	-10.1780	-9.5676	-9.9304	1.0036e-01	8.7035e-01
95	PAN130224	-10.1973	-9.8921	-10.0416	6.7810e-02	8.7036e-01
96	PAN120312	-11.3656	-7.0931	-10.4392	6.0155e-01	8.7039e-01
97	PAN130312	-13.5449	-8.8147	-9.9373	8.8851e-01	8.7035e-01
98	PAB000136	40.3938	40.7143	40.5218	7.8723e-02	5.8878e-01
99	PAB100136	44.2727	44.4558	44.3811	5.0053e-02	5.9052e-01
100	PAB125136	45.2064	45.4352	45.3353	5.3411e-02	5.9097e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2249	40.7132	40.4790	1.1374e-01	7.5680e-01
102	PRV000001	19.6054	19.7274	19.6477	5.8707e-02	7.5161e-01
103	PSR000001	45.0431	45.2872	45.1901	5.5603e-02	7.5846e-01
104	PFM000001	2.4523	2.7270	2.5551	7.3889e-02	5.0004e-01
105	PAN000136	-132.0266	-125.6179	-128.8223	1.2744e+00	4.9305e+00
106	PFM000002	2.5196	2.6378	2.5754	2.2928e-02	2.0010e-01
107	EMPTY	-0.0049	0.0049	-0.0037	2.3440e-03	0.0000e+00
108	EMPTY	-6.5869	-3.7744	-4.6906	6.5560e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0011	2.2871e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0014	2.2287e-03	0.0000e+00
112	VPW000001	100.9812	101.5672	101.2523	1.4273e-01	1.0125e+00
113	VPW000002	118.7453	119.1359	118.9964	1.1276e-01	1.0798e+00
114	VPW000003	146.4444	147.0303	146.7353	1.3296e-01	1.1963e+00
115	VPW000004	104.6522	105.4334	104.9790	1.8002e-01	1.0261e+00
116	VPW000005	139.1378	139.9191	139.6001	1.9406e-01	1.1652e+00
117	VPW000006	147.1056	147.8869	147.5241	1.6915e-01	1.1998e+00
118	IPW000001	538.0472	545.8566	541.1152	1.5435e+00	9.1588e+00
119	IPW000002	1305.3993	1313.2043	1309.1423	1.8612e+00	1.3137e+01
120	IPW000003	1327.1045	1332.9545	1331.2030	1.3929e+00	1.3274e+01
121	IPW000004	380.4594	382.9008	381.7247	5.8897e-01	3.6186e+00
122	IPW000005	253.5926	255.5455	254.3997	4.8365e-01	2.8353e+00
123	IPW000006	263.6719	265.6250	264.4292	3.8681e-01	2.8920e+00
124	EMPTY	-0.0293	-0.0146	-0.0205	3.8576e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.8191e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0166	2.9765e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	3.6105e-03	0.0000e+00
128	IHT000001	129.0475	131.7819	130.2632	6.0760e-01	4.3020e+00
129	IHT000002	132.5678	135.1069	133.9151	5.7945e-01	4.3132e+00
130	IHT000003	132.3678	135.2975	133.7629	5.9134e-01	4.3127e+00
131	IHT000004	130.5041	133.2384	132.0585	5.9263e-01	4.3074e+00
132	IHT000005	129.0569	131.9866	130.6352	5.7476e-01	4.3031e+00
133	IHT000006	124.0259	126.7603	125.5884	5.6803e-01	4.2880e+00
134	IHT000007	131.0147	133.7491	132.5453	5.8505e-01	4.3089e+00
135	IHT000008	129.6475	132.5772	131.1422	5.6600e-01	4.3046e+00
136	IHT000009	129.9581	132.8878	131.5365	6.0704e-01	4.3058e+00
137	IHT000010	132.3419	134.6856	133.5615	5.3715e-01	4.3121e+00
138	IHT000011	130.6641	133.0078	131.7841	5.3604e-01	4.3066e+00
139	IHT000012	128.4781	131.0172	129.5184	5.6857e-01	4.2997e+00
140	IHT000013	91.7828	94.3219	92.9028	5.4922e-01	4.2039e+00
141	IHT000014	127.6144	129.9581	128.5470	5.3379e-01	4.2968e+00
142	IHT000015	94.7219	97.0656	95.4912	5.0336e-01	4.2097e+00
143	IHT000016	88.2412	90.3897	89.0504	5.1521e-01	4.1956e+00
144	IHT000017	106.2500	108.5938	107.4298	6.0062e-01	4.2384e+00
145	IHT000018	-0.8166	1.3319	0.1002	4.7038e-01	4.1000e+00
146	IHT000019	107.9278	109.6856	108.6173	4.2586e-01	4.2414e+00
147	IHT000020	106.3419	108.0997	107.1948	3.8796e-01	4.2378e+00
148	IHT000021	0.5197	2.4728	1.2411	4.1471e-01	4.1000e+00
149	IHT000022	92.1075	94.2559	92.9684	4.4021e-01	4.2041e+00
150	IHT000023	105.7441	107.6972	106.5692	4.3539e-01	4.2362e+00
151	IHT000024	67.1069	69.0600	67.7407	4.2104e-01	4.1556e+00
152	IHT000025	103.5462	105.6947	104.3394	4.5876e-01	4.2307e+00
153	IHT000026	105.5088	107.8525	106.5531	5.1760e-01	4.2362e+00
154	IHT000027	89.5331	91.8769	90.4898	5.4262e-01	4.1987e+00
155	IHT000028	90.1897	92.3381	91.0546	5.0272e-01	4.1999e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2500	108.2031	107.2106	4.8802e-01	4.2379e+00
157	IHT000030	108.7091	110.8575	109.6856	5.1828e-01	4.2442e+00
158	IHT000031	106.5206	108.6691	107.4612	4.9100e-01	4.2385e+00
159	IHT000032	107.6972	109.8456	108.6100	5.4575e-01	4.2414e+00
160	IHT000033	-1.1966	0.5612	-0.4871	4.6098e-01	4.1000e+00
161	IHT000034	94.2959	96.0537	95.0692	4.5274e-01	4.2088e+00
162	IHT000035	123.8753	126.2191	124.9436	5.3800e-01	4.2862e+00
163	IHT000036	92.9688	94.5313	93.6623	4.4227e-01	4.2056e+00

Velocity 1 = 0.047600 (ft/sec)
 Velocity 2 = 0.026700 (ft/sec)
 Pressure Drop = 0.007000 (psi)
 Tsat in = 0.063110 (deg F) Tsat out = 0.002716 (deg F)
 Phi inner = 0.212502 (kBtu/hr-ft2) Phi outer = 0.122803 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1078	0.1390
1	TRF000002	0.0715	0.0916
2	TFM000001	1.3754	1.5803
3	TIN000001	1.3736	1.5837
4	TRV000001	1.4725	1.6709
5	TSR000001	1.7683	1.1111
6	TAO020136	3.7773	2.0002
7	TAO050136	0.7519	0.3723
8	TAO070136	0.6725	0.3121
9	TAO080136	0.8773	0.3913
10	TAO090136	1.0889	0.4676
11	TAO100136	1.3845	0.5807
12	TAO105136	1.1204	0.4652
13	EMPTY	0.0202	0.0489
14	TAO115136	0.8981	0.3687
15	EMPTY	0.1435	0.3709
16	TAO125136	0.8347	0.3275
17	TAO130136	0.8413	0.3524
18	EMPTY	0.0405	0.0986
19	TAO130048	0.9409	0.3712
20	TAO120224	0.8811	0.3593
21	EMPTY	0.0012	0.0030
22	TAO120312	0.9677	0.3667
23	TAO130312	0.9701	0.3786
24	EMPTY	0.0614	0.1551
25	TRT070000	0.6973	0.3429
26	TRT100000	1.0957	0.4565
27	TRT120000	0.8937	0.3410
28	TRT125000	1.4795	0.5546
29	EMPTY	0.0144	0.0359
30	EMPTY	0.0351	0.0884
31	TAF050136	1.0936	0.8063
32	TAF070136	1.3566	0.8777
33	TAF080136	0.8247	0.5049
34	TAF090136	1.2550	0.7393
35	TAF100136	1.1763	0.6619
36	TAF105136	1.3371	0.7339
37	TAF110136	1.5340	0.8165
38	TAF115136	1.2602	0.6598
39	TAF120136	1.2864	0.6594
40	TAF125136	1.2737	0.6386
41	TAF130136	1.1610	0.5703
42	TAF120048	2.4312	1.1483
43	TAF130048	1.4295	0.6594
44	TAF120224	1.2094	0.6134
45	TAF130224	1.2054	0.5888

#	Name	Abs Diff	%Diff
46	EMPTY	0.0008	0.0021
47	EMPTY	0.0412	0.1042
48	TAI130048	1.1098	0.4201
49	EMPTY	0.1347	0.3530
50	TAI130224	1.0467	0.4107
51	EMPTY	0.1962	0.4735
52	TRR130000	3.3670	2.5589
53	TSI000001	0.1296	0.2477
54	TSI000002	0.6567	0.4831
55	TSO000001	0.0960	0.1913
56	TSO000002	0.1632	0.2559
57	TAF020136	0.0003	0.0003
58	TAF120312	0.8528	0.4074
59	TAF130312	1.0980	0.5008
60	EMPTY	0.0300	0.8262
61	EMPTY	0.0297	0.8199
62	EMPTY	0.0282	0.7806
63	EMPTY	0.0283	0.7837
64	EMPTY	0.0129	0.7521
65	EMPTY	0.0141	0.8156
66	EMPTY	0.0139	0.7997
67	EMPTY	0.0133	0.7609
68	EMPTY	0.0120	0.6843
69	EMPTY	0.0128	0.7249
70	EMPTY	0.0120	0.6769
71	EMPTY	0.0132	0.7371
72	EMPTY	0.0136	0.7568
73	EMPTY	0.0113	0.6249
74	EMPTY	0.0124	0.6827
75	EMPTY	0.0118	0.6460
76	EMPTY	0.0140	0.7628
77	EMPTY	0.0111	0.6013
78	EMPTY	0.0115	0.6176
79	EMPTY	0.0118	0.6276
80	PAN020136	0.0896	0.5389
81	PAN050136	0.1552	0.4979
82	PAN070136	0.0025	0.0123
83	PAN080136	0.0517	0.4916
84	PAN090136	0.1190	1.1906
85	PAN100136	0.0343	0.3365
86	PAN105136	0.0540	1.0960
87	PAN110136	0.0124	0.2408
88	PAN115136	0.0537	1.1819
89	PAN120136	0.0754	1.3708
90	PAN125136	0.0154	0.3285
91	PAN130136	0.0292	0.5976
92	PAN120048	0.0727	0.6504
93	PAN130048	0.0837	0.8528
94	PAN120224	0.0187	0.1880
95	PAN130224	0.0946	0.9510
96	PAN120312	0.1448	1.4066
97	PAN130312	0.1537	1.5710
98	PAB000136	0.0428	0.1057
99	PAB100136	0.0050	0.0113
100	PAB125136	0.0020	0.0044

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2907	0.7233
102	PRV000001	0.0423	0.2158
103	PSR000001	0.0176	0.0390
104	PFM000001	0.0607	2.4334
105	PAN000136	0.1923	0.1495
106	PIA000002	0.0346	1.3618
107	EMPTY	0.0059	268.1818
108	EMPTY	0.7267	13.4144
109	EMPTY	0.0016	320.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0013	1300.0000
112	VPW000001	0.0054	0.0053
113	VPW000002	0.0926	0.0778
114	VPW000003	0.1114	0.0759
115	VPW000004	0.2474	0.2351
116	VPW000005	0.2095	0.1498
117	VPW000006	0.2612	0.1767
118	IPW000001	2.4041	0.4463
119	IPW000002	4.3350	0.3300
120	IPW000003	1.7517	0.1314
121	IPW000004	1.3827	0.3635
122	IPW000005	0.3090	0.1216
123	IPW000006	0.1411	0.0533
124	EMPTY	0.0004	1.9901
125	EMPTY	0.0025	20.6612
126	EMPTY	0.0007	4.4025
127	EMPTY	0.0025	17.2414
128	IHT000001	0.0069	0.0053
129	IHT000002	0.0903	0.0674
130	IHT000003	0.0893	0.0667
131	IHT000004	0.1682	0.1272
132	IHT000005	0.0544	0.0416
133	IHT000006	0.1133	0.0901
134	IHT000007	0.0748	0.0564
135	IHT000008	0.1420	0.1082
136	IHT000009	0.0661	0.0502
137	IHT000010	0.0030	0.0023
138	IHT000011	0.2706	0.2049
139	IHT000012	0.1940	0.1496
140	IHT000013	0.1808	0.1942
141	IHT000014	0.1493	0.1160
142	IHT000015	0.2190	0.2288
143	IHT000016	0.0435	0.0489
144	IHT000017	1.5314	1.4461
145	IHT000018	0.2683	159.6074
146	IHT000019	0.3653	0.3375
147	IHT000020	0.3608	0.3377
148	IHT000021	0.3738	43.0993
149	IHT000022	0.4312	0.4660
150	IHT000023	0.2938	0.2765
151	IHT000024	0.2354	0.3487
152	IHT000025	0.1994	0.1915
153	IHT000026	0.2357	0.2217
154	IHT000027	0.3004	0.3331
155	IHT000028	0.3063	0.3375

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2262	0.2114
157	IHT000030	0.2383	0.2177
158	IHT000031	0.1828	0.1704
159	IHT000032	0.1784	0.1645
160	IHT000033	0.0132	2.7854
161	IHT000034	0.1251	0.1314
162	IHT000035	0.0489	0.0391
163	IHT000036	0.1463	0.1560

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Velocity 1 = 3.5190 (ft/sec) (+/- 13.9530 %)
Velocity 2 = 3.5669 (ft/sec) (+/- 5.8687 %)
Pressure drop = -4.8210 (psi)
Tsat in = 268.0219 (deg F) Tsat out = 275.0919 (deg F)
Phi inner = 99.0348 (kBtu/hr-ft2) (+/- 1.5741 %)
Phi outer = 100.2175 (kBtu/hr-ft2) (+/- 1.5519 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.7772	78.4130	78.0697	1.8109e-01	1.9000e+00
1	TRF000002	78.3203	78.7420	78.5481	1.2666e-01	1.9000e+00
2	TFM000001	85.5251	86.3649	86.0100	2.1806e-01	1.9002e+00
3	TIN000001	85.4666	85.9926	85.7296	1.2614e-01	1.9002e+00
4	TRV000001	86.7969	87.5282	87.1623	1.7054e-01	1.9002e+00
5	TSR000001	164.0317	165.2133	164.5223	3.0136e-01	1.9060e+00
6	TAO020136	200.8179	201.8799	201.3567	2.2832e-01	1.9116e+00
7	TAO050136	213.5097	214.1767	213.7791	1.7062e-01	1.9139e+00
8	TAO070136	228.7787	229.8236	229.3086	2.6093e-01	1.9170e+00
9	TAO080136	238.4921	239.8022	239.0860	3.1293e-01	1.9192e+00
10	TAO090136	248.2290	249.5333	248.6966	3.1254e-01	1.9214e+00
11	TAO100136	253.6816	254.3336	253.9556	1.9844e-01	1.9227e+00
12	TAO105136	257.0523	258.3534	257.6415	2.8761e-01	1.9236e+00
13	EMPTY	40.9819	41.4403	41.3120	1.2387e-01	1.9011e+00
14	TAO115136	260.7025	261.6337	261.1441	2.3910e-01	1.9245e+00
15	EMPTY	32.2314	43.5000	39.8949	2.9682e+00	1.9011e+00
16	TAO125136	274.5206	275.2550	274.9269	1.5645e-01	1.9281e+00
17	TAO130136	257.2475	258.1663	257.7791	2.2129e-01	1.9236e+00
18	EMPTY	41.2111	42.3562	41.6922	2.7472e-01	1.9012e+00
19	TAO130048	273.6809	274.5085	274.1350	1.8507e-01	1.9279e+00
20	TAO120224	263.5843	264.6951	264.0934	2.1741e-01	1.9252e+00
21	EMPTY	39.3761	39.6057	39.5414	1.0413e-01	1.9011e+00
22	TAO120312	285.5846	286.3168	285.8975	1.7449e-01	1.9311e+00
23	TAO130312	276.0515	276.7864	276.3989	1.7229e-01	1.9285e+00
24	EMPTY	39.1464	40.0646	39.5735	1.6728e-01	1.9011e+00
25	TRT070000	213.8431	215.4754	214.5177	4.1515e-01	1.9140e+00
26	TRT100000	258.0277	258.7702	258.4046	2.1459e-01	1.9238e+00
27	TRT120000	280.7552	282.0374	281.3101	3.2538e-01	1.9298e+00
28	TRT125000	285.2163	286.0344	285.6653	1.9395e-01	1.9311e+00
29	EMPTY	40.0646	40.2940	40.1381	1.0810e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7342	2.0820e-01	1.9011e+00
31	TAF050136	140.5454	142.6475	141.6926	4.0255e-01	1.9035e+00
32	TAF070136	162.0161	164.5691	163.5932	5.0108e-01	1.9059e+00
33	TAF080136	172.8609	176.4602	174.3491	9.8436e-01	1.9073e+00
34	TAF090136	181.0305	185.6074	182.7010	1.2014e+00	1.9085e+00
35	TAF100136	190.5876	195.6290	191.6923	8.9127e-01	1.9100e+00
36	TAF105136	195.5015	201.4371	197.0069	1.2709e+00	1.9108e+00
37	TAF110136	201.9084	208.5054	204.3832	1.6552e+00	1.9121e+00
38	TAF115136	205.2753	207.7629	206.4991	4.8478e-01	1.9125e+00
39	TAF120136	210.1453	213.1883	211.2665	5.6965e-01	1.9134e+00
40	TAF125136	215.2288	216.8399	216.1178	3.2034e-01	1.9143e+00
41	TAF130136	219.8466	221.4603	220.5054	3.5653e-01	1.9152e+00
42	TAF120048	227.4211	230.3708	229.0946	6.1229e-01	1.9170e+00
43	TAF130048	235.2295	236.9242	236.1316	3.9671e-01	1.9185e+00
44	TAF120224	212.8027	214.9022	213.7251	5.3298e-01	1.9139e+00
45	TAF130224	222.1153	223.6425	222.6364	3.3743e-01	1.9156e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9376	2.1193e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6332	8.8473e-02	1.9011e+00
48	TAI130048	283.2587	284.0828	283.7218	2.2604e-01	1.9305e+00
49	EMPTY	37.7675	38.6870	38.2365	1.9683e-01	1.9010e+00
50	TAI130224	274.0966	275.2031	274.6851	2.4568e-01	1.9280e+00
51	EMPTY	41.2111	41.8984	41.6281	2.0007e-01	1.9012e+00
52	TRR130000	140.5331	143.5408	142.3840	7.4012e-01	1.9035e+00
53	TSI000001	51.9161	52.5640	52.1948	1.6743e-01	1.9002e+00
54	TSI000002	146.3038	147.3041	146.7737	2.2064e-01	1.9040e+00
55	TSO000001	49.5385	50.4067	49.9317	2.2567e-01	1.9003e+00
56	TSO000002	64.5047	65.4667	64.9601	2.1356e-01	1.9000e+00
57	TAF020136	88.7284	89.5692	89.1550	1.7952e-01	1.9002e+00
58	TAF120312	227.2550	229.9977	228.2180	5.5411e-01	1.9168e+00
59	TAF130312	238.7864	240.4754	239.7117	3.5815e-01	1.9193e+00
60	EMPTY	4.1357	4.1504	4.1443	3.8913e-03	0.0000e+00
61	EMPTY	4.1260	4.1357	4.1322	3.1257e-03	0.0000e+00
62	EMPTY	4.1162	4.1260	4.1195	2.6908e-03	0.0000e+00
63	EMPTY	4.1113	4.1211	4.1148	2.4244e-03	0.0000e+00
64	EMPTY	1.9385	1.9434	1.9391	1.6028e-03	0.0000e+00
65	EMPTY	1.9482	1.9531	1.9519	2.1635e-03	0.0000e+00
66	EMPTY	1.9531	1.9629	1.9582	1.3811e-03	0.0000e+00
67	EMPTY	1.9629	1.9678	1.9676	9.6655e-04	0.0000e+00
68	EMPTY	1.9727	1.9775	1.9729	9.6655e-04	0.0000e+00
69	EMPTY	1.9775	1.9873	1.9824	9.8648e-04	0.0000e+00
70	EMPTY	1.9775	1.9922	1.9896	3.1567e-03	0.0000e+00
71	EMPTY	2.0020	2.0068	2.0053	2.3008e-03	0.0000e+00
72	EMPTY	2.0068	2.0117	2.0109	1.8082e-03	0.0000e+00
73	EMPTY	2.0166	2.0215	2.0214	6.9053e-04	0.0000e+00
74	EMPTY	2.0264	2.0313	2.0266	9.6655e-04	0.0000e+00
75	EMPTY	2.0361	2.0410	2.0364	1.1714e-03	0.0000e+00
76	EMPTY	2.0361	2.0459	2.0426	2.5034e-03	0.0000e+00
77	EMPTY	2.0508	2.0557	2.0555	9.6655e-04	0.0000e+00
78	EMPTY	2.0654	2.0703	2.0699	1.3381e-03	0.0000e+00
79	EMPTY	2.0801	2.0898	2.0850	9.8648e-04	0.0000e+00
80	PAN020136	-17.8104	-16.9712	-17.3420	1.7234e-01	8.7108e-01
81	PAN050136	-32.6665	-31.7510	-32.2667	1.8209e-01	1.6819e+00
82	PAN070136	-22.6467	-17.2299	-21.5862	9.9119e-01	8.7167e-01
83	PAN080136	-13.3225	-2.3362	-10.1777	1.5041e+00	8.7037e-01
84	PAN090136	-13.3868	-10.4114	-11.1011	5.8246e-01	8.7044e-01
85	PAN100136	-11.1844	-9.7349	-10.4337	3.5631e-01	8.7039e-01
86	PAN105136	-6.1266	-4.4481	-5.2217	4.2521e-01	8.7010e-01
87	PAN110136	-5.9879	-4.2332	-5.0922	3.9201e-01	8.7009e-01
88	PAN115136	-5.5752	-3.8967	-4.7115	3.2127e-01	8.7008e-01
89	PAN120136	-6.9043	-4.5392	-5.4257	4.0923e-01	8.7011e-01
90	PAN125136	-5.6735	-2.6217	-4.6481	4.8746e-01	8.7008e-01
91	PAN130136	-5.4767	-4.1034	-4.8190	2.3217e-01	8.7008e-01
92	PAN120048	-11.4327	-10.0594	-10.9673	2.2403e-01	8.7043e-01
93	PAN130048	-10.1798	-9.4169	-9.8624	1.6910e-01	8.7035e-01
94	PAN120224	-10.5594	-9.1099	-10.0742	2.8244e-01	8.7036e-01
95	PAN130224	-10.5024	-9.6632	-10.0142	2.0156e-01	8.7036e-01
96	PAN120312	-10.7552	-9.4583	-10.1434	2.8442e-01	8.7037e-01
97	PAN130312	-10.3406	-9.3488	-9.9179	2.0227e-01	8.7035e-01
98	PAB000136	40.3023	40.5770	40.4405	6.4400e-02	5.8875e-01
99	PAB100136	44.4100	44.5473	44.4988	3.9681e-02	5.9057e-01
100	PAB125136	45.3895	45.5726	45.4810	4.5307e-02	5.9104e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8587	40.2249	40.0296	8.1794e-02	7.5665e-01
102	PRV000001	19.6054	19.8495	19.7201	3.8286e-02	7.5162e-01
103	PSR000001	45.1651	45.4093	45.2897	3.0104e-02	7.5850e-01
104	PFM000001	1.7199	1.9945	1.8499	6.1596e-02	5.0002e-01
105	PAN000136	-135.6887	-131.1111	-133.4731	1.0559e+00	4.9313e+00
106	PFM000002	1.8776	1.9282	1.9019	1.4545e-02	2.0006e-01
107	EMPTY	-0.0049	0.0049	-0.0022	3.8473e-03	0.0000e+00
108	EMPTY	-6.3916	-3.8916	-4.2938	5.3313e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0001	2.5131e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0003	1.1714e-03	0.0000e+00
112	VPW000001	100.9812	101.5672	101.3250	1.1545e-01	1.0128e+00
113	VPW000002	118.9406	119.3313	119.0851	1.1712e-01	1.0801e+00
114	VPW000003	146.6397	147.0303	146.8467	1.0741e-01	1.1968e+00
115	VPW000004	104.8475	105.4334	105.1522	1.3182e-01	1.0267e+00
116	VPW000005	139.3331	139.9191	139.6807	1.3833e-01	1.1655e+00
117	VPW000006	147.4962	147.8869	147.6954	1.1497e-01	1.2006e+00
118	IPW000001	555.6183	561.4753	558.4296	1.1267e+00	9.2235e+00
119	IPW000002	1285.8866	1291.7404	1289.2819	1.4650e+00	1.3013e+01
120	IPW000003	1305.6544	1311.5044	1308.6969	1.1923e+00	1.3134e+01
121	IPW000004	380.4594	382.9008	381.5529	5.5419e-01	3.6174e+00
122	IPW000005	252.6161	253.5926	253.3095	2.8055e-01	2.8292e+00
123	IPW000006	261.2305	262.6953	262.0313	3.7899e-01	2.8784e+00
124	EMPTY	-0.0244	-0.0146	-0.0205	3.4173e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	2.6635e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0171	3.7239e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0153	3.2733e-03	0.0000e+00
128	IHT000001	129.0475	131.3913	130.0631	6.2515e-01	4.3014e+00
129	IHT000002	132.7631	135.1069	133.7749	5.6316e-01	4.3127e+00
130	IHT000003	132.5631	134.9069	133.6647	6.0716e-01	4.3124e+00
131	IHT000004	131.0900	133.2384	131.9532	5.9854e-01	4.3071e+00
132	IHT000005	129.4475	131.5959	130.4435	5.8826e-01	4.3025e+00
133	IHT000006	124.6119	126.7603	125.4712	5.6221e-01	4.2877e+00
134	IHT000007	131.6006	133.3584	132.4287	5.5742e-01	4.3086e+00
135	IHT000008	130.0381	132.3819	131.0576	5.5704e-01	4.3044e+00
136	IHT000009	130.1534	132.3019	131.3916	5.5609e-01	4.3054e+00
137	IHT000010	132.1466	134.8809	133.3301	5.5300e-01	4.3113e+00
138	IHT000011	130.4688	133.3984	131.6797	5.4104e-01	4.3063e+00
139	IHT000012	128.2828	131.2125	129.3804	5.4518e-01	4.2993e+00
140	IHT000013	91.7828	94.1266	92.7789	4.9007e-01	4.2037e+00
141	IHT000014	127.4191	129.3722	128.3565	4.8488e-01	4.2962e+00
142	IHT000015	94.5266	96.4797	95.4055	4.6396e-01	4.2095e+00
143	IHT000016	88.0459	89.9991	88.8740	4.3146e-01	4.1952e+00
144	IHT000017	104.1016	106.8359	105.2813	5.0680e-01	4.2330e+00
145	IHT000018	-1.4025	0.3553	-0.4298	3.7948e-01	4.1000e+00
146	IHT000019	107.1466	109.0997	108.2754	4.1627e-01	4.2406e+00
147	IHT000020	105.9512	107.5137	106.7246	3.7840e-01	4.2366e+00
148	IHT000021	-0.0662	1.6916	0.7853	3.5679e-01	4.1000e+00
149	IHT000022	91.7169	93.4747	92.5098	4.1462e-01	4.2031e+00
150	IHT000023	105.3534	106.9159	106.1464	4.1836e-01	4.2352e+00
151	IHT000024	66.5209	68.0834	67.3374	4.0758e-01	4.1549e+00
152	IHT000025	103.1556	105.1087	103.9720	4.2258e-01	4.2298e+00
153	IHT000026	105.1181	107.0713	106.1143	4.1055e-01	4.2351e+00
154	IHT000027	88.5566	91.2909	90.0175	4.7718e-01	4.1977e+00
155	IHT000028	90.1897	92.1428	91.0334	4.6091e-01	4.1998e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2500	108.2031	107.1484	4.9756e-01	4.2377e+00
157	IHT000030	108.5137	110.4669	109.5606	4.6649e-01	4.2439e+00
158	IHT000031	106.5206	108.6691	107.4346	4.8559e-01	4.2384e+00
159	IHT000032	107.6972	110.0409	108.6152	4.9324e-01	4.2414e+00
160	IHT000033	-1.1966	0.7566	-0.2513	4.0695e-01	4.1000e+00
161	IHT000034	94.1006	96.2491	95.2920	4.4337e-01	4.2093e+00
162	IHT000035	124.2659	126.2191	125.1175	4.4601e-01	4.2867e+00
163	IHT000036	93.1641	94.9219	93.9844	4.1385e-01	4.2063e+00

Velocity 1 = 3.5439 (ft/sec) (+/- 13.7652 %)
Velocity 2 = 3.5893 (ft/sec) (+/- 5.8200 %)
Pressure drop = -4.8360 (psi)
Tsats in = 268.0509 (deg F) Tsats out = 275.0581 (deg F)
Phi inner = 99.1791 (kBtu/hr-ft2) (+/- 1.5738 %)
Phi outer = 99.9579 (kBtu/hr-ft2) (+/- 1.5530 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.7772	78.4130	78.0541	1.8457e-01	1.9000e+00
1	TRF000002	78.1094	78.7420	78.5097	1.6246e-01	1.9000e+00
2	TFM000001	85.4203	86.3644	85.9022	2.2243e-01	1.9002e+00
3	TIN000001	85.1515	85.8876	85.6469	1.7432e-01	1.9002e+00
4	TRV000001	86.6907	87.4245	87.0780	2.1367e-01	1.9002e+00
5	TSR000001	163.2431	165.1147	164.0261	4.9310e-01	1.9059e+00
6	TAO020136	200.7217	201.8795	201.2810	2.5608e-01	1.9116e+00
7	TAO050136	213.0340	214.2720	213.7049	2.1476e-01	1.9139e+00
8	TAO070136	228.8735	229.7278	229.2130	1.7974e-01	1.9170e+00
9	TAO080136	238.7745	240.0813	239.3552	2.9267e-01	1.9192e+00
10	TAO090136	247.9489	249.5337	248.6643	2.8576e-01	1.9214e+00
11	TAO100136	253.5886	254.5195	254.0333	2.3976e-01	1.9227e+00
12	TAO105136	257.0524	258.6323	257.7370	3.2231e-01	1.9236e+00
13	EMPTY	40.9819	41.6693	41.3140	1.3279e-01	1.9011e+00
14	TAO115136	260.4242	261.6335	261.0695	2.7407e-01	1.9244e+00
15	EMPTY	32.0000	43.5000	39.4777	3.4440e+00	1.9010e+00
16	TAO125136	274.5206	275.1638	274.8809	1.5676e-01	1.9281e+00
17	TAO130136	256.9715	258.2595	257.5653	2.6851e-01	1.9236e+00
18	EMPTY	41.2111	42.3562	41.7160	2.0897e-01	1.9012e+00
19	TAO130048	273.8644	274.6000	274.1797	1.6133e-01	1.9279e+00
20	TAO120224	263.6767	264.6946	264.0868	2.3744e-01	1.9252e+00
21	EMPTY	39.3761	39.6057	39.5260	1.1041e-01	1.9011e+00
22	TAO120312	285.5846	286.1339	285.9095	1.3854e-01	1.9311e+00
23	TAO130312	276.0515	276.7864	276.3667	1.5224e-01	1.9285e+00
24	EMPTY	39.1464	39.8352	39.6057	1.8744e-01	1.9011e+00
25	TRT070000	213.8436	215.0923	214.4984	3.3932e-01	1.9140e+00
26	TRT100000	257.6584	258.7697	258.3310	2.3987e-01	1.9237e+00
27	TRT120000	280.2057	281.9456	281.2224	3.6728e-01	1.9298e+00
28	TRT125000	285.2149	286.1247	285.6539	1.7399e-01	1.9311e+00
29	EMPTY	40.0646	40.2940	40.1302	1.0471e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.7930	2.0780e-01	1.9011e+00
31	TAF050136	140.7443	142.3472	141.5137	3.6421e-01	1.9034e+00
32	TAF070136	162.6038	165.1566	163.6092	4.8024e-01	1.9059e+00
33	TAF080136	172.7641	176.6527	175.0820	8.2129e-01	1.9074e+00
34	TAF090136	180.7383	186.3855	182.4548	1.0930e+00	1.9085e+00
35	TAF100136	190.4907	196.0170	192.9277	1.7919e+00	1.9102e+00
36	TAF105136	195.4050	201.6258	197.1194	1.3565e+00	1.9109e+00
37	TAF110136	201.4275	207.6467	204.5273	1.6828e+00	1.9122e+00
38	TAF115136	205.1789	207.7641	206.4672	5.8400e-01	1.9125e+00
39	TAF120136	210.1441	212.7124	211.1747	5.4139e-01	1.9134e+00
40	TAF125136	215.3230	217.8803	216.2304	5.5656e-01	1.9144e+00
41	TAF130136	219.5615	221.9355	220.6603	4.6354e-01	1.9152e+00
42	TAF120048	227.1330	230.5623	228.9481	6.0961e-01	1.9169e+00
43	TAF130048	235.2294	237.3942	236.2249	4.6031e-01	1.9185e+00
44	TAF120224	212.6122	216.0457	213.8956	6.5244e-01	1.9139e+00
45	TAF130224	221.6393	223.6416	222.6569	4.4467e-01	1.9156e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9739	2.1636e-01	1.9010e+00
47	EMPTY	39.3761	40.0646	39.7321	1.4103e-01	1.9011e+00
48	TAI130048	283.0754	284.2655	283.6660	2.7649e-01	1.9305e+00
49	EMPTY	37.9974	38.6870	38.2414	1.7182e-01	1.9010e+00
50	TAI130224	274.0970	275.2957	274.7856	2.8738e-01	1.9280e+00
51	EMPTY	41.2111	41.8984	41.6646	1.8986e-01	1.9012e+00
52	TRR130000	139.7296	142.1379	141.0204	5.9485e-01	1.9034e+00
53	TSI000001	51.8084	52.6716	52.2795	1.9784e-01	1.9002e+00
54	TSI000002	146.3032	147.6032	146.8546	2.9726e-01	1.9040e+00
55	TSO000001	49.5401	50.5156	49.9621	2.2177e-01	1.9003e+00
56	TSO000002	64.6114	65.4668	64.9978	2.0560e-01	1.9000e+00
57	TAF020136	88.6238	89.5697	89.1359	1.9863e-01	1.9002e+00
58	TAF120312	227.2545	229.0524	228.2588	4.7729e-01	1.9168e+00
59	TAF130312	239.0683	240.7566	239.7535	3.3835e-01	1.9193e+00
60	EMPTY	4.1406	4.1553	4.1464	3.6856e-03	0.0000e+00
61	EMPTY	4.1309	4.1406	4.1337	2.8047e-03	0.0000e+00
62	EMPTY	4.1162	4.1260	4.1208	2.3179e-03	0.0000e+00
63	EMPTY	4.1113	4.1211	4.1155	2.2287e-03	0.0000e+00
64	EMPTY	1.9336	1.9434	1.9387	1.3951e-03	0.0000e+00
65	EMPTY	1.9482	1.9531	1.9506	2.4662e-03	0.0000e+00
66	EMPTY	1.9531	1.9629	1.9579	1.2165e-03	0.0000e+00
67	EMPTY	1.9629	1.9727	1.9675	1.5467e-03	0.0000e+00
68	EMPTY	1.9727	1.9727	1.9727	0.0000e+00	0.0000e+00
69	EMPTY	1.9775	1.9873	1.9822	1.3951e-03	0.0000e+00
70	EMPTY	1.9873	1.9922	1.9878	1.4934e-03	0.0000e+00
71	EMPTY	2.0020	2.0068	2.0031	2.1215e-03	0.0000e+00
72	EMPTY	2.0068	2.0117	2.0087	2.4037e-03	0.0000e+00
73	EMPTY	2.0166	2.0215	2.0201	2.2287e-03	0.0000e+00
74	EMPTY	2.0264	2.0313	2.0265	6.9754e-04	0.0000e+00
75	EMPTY	2.0361	2.0361	2.0361	0.0000e+00	0.0000e+00
76	EMPTY	2.0410	2.0508	2.0415	1.7954e-03	0.0000e+00
77	EMPTY	2.0508	2.0557	2.0535	2.4538e-03	0.0000e+00
78	EMPTY	2.0654	2.0703	2.0672	2.3783e-03	0.0000e+00
79	EMPTY	2.0801	2.0898	2.0850	9.9670e-04	0.0000e+00
80	PAN020136	-17.8104	-16.8949	-17.2997	1.6715e-01	8.7107e-01
81	PAN050136	-32.5139	-31.7510	-32.1496	1.4211e-01	1.6819e+00
82	PAN070136	-22.2653	-14.7122	-21.5179	1.1282e+00	8.7166e-01
83	PAN080136	-13.2462	-3.2517	-10.2038	1.5239e+00	8.7037e-01
84	PAN090136	-13.3105	-5.1471	-10.7633	1.1457e+00	8.7042e-01
85	PAN100136	-13.1681	-6.4542	-10.5165	1.0530e+00	8.7040e-01
86	PAN105136	-7.6525	0.0532	-5.0133	1.1406e+00	8.7009e-01
87	PAN110136	-6.2931	-4.3094	-5.2094	3.9765e-01	8.7010e-01
88	PAN115136	-5.2700	-4.1256	-4.7110	2.5655e-01	8.7008e-01
89	PAN120136	-6.4465	-4.5392	-5.2180	4.2742e-01	8.7010e-01
90	PAN125136	-6.8942	-3.5372	-4.8623	5.2874e-01	8.7008e-01
91	PAN130136	-5.6293	-2.8064	-4.8850	4.9359e-01	8.7009e-01
92	PAN120048	-11.2802	-10.3646	-10.9018	2.2241e-01	8.7043e-01
93	PAN130048	-10.1798	-9.0354	-9.8233	2.2427e-01	8.7035e-01
94	PAN120224	-12.3142	-8.6521	-9.9569	6.1810e-01	8.7036e-01
95	PAN130224	-10.4261	-9.0529	-9.9326	2.9014e-01	8.7035e-01
96	PAN120312	-10.7552	-9.4583	-10.0826	2.5288e-01	8.7037e-01
97	PAN130312	-10.1117	-9.6539	-9.8968	1.1724e-01	8.7035e-01
98	PAB000136	40.3481	40.6227	40.4602	5.6112e-02	5.8875e-01
99	PAB100136	44.2727	44.5931	44.4941	5.8613e-02	5.9057e-01
100	PAB125136	45.3895	45.5726	45.4558	4.6777e-02	5.9103e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1028	40.4690	40.2747	1.1396e-01	7.5673e-01
102	PRV000001	19.6054	19.8495	19.7249	3.0414e-02	7.5162e-01
103	PSR000001	45.1651	45.4093	45.2872	2.4917e-02	7.5850e-01
104	PFM000001	1.7199	1.9945	1.8768	6.1981e-02	5.0002e-01
105	PAN000136	-135.6887	-132.0266	-133.8857	9.1270e-01	4.9314e+00
106	PFM000002	1.8776	1.9620	1.9265	1.8000e-02	2.0006e-01
107	EMPTY	-0.0049	0.0000	-0.0047	9.7615e-04	0.0000e+00
108	EMPTY	-5.5518	-3.8428	-4.0910	3.5059e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0033	2.3135e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0029	2.4247e-03	0.0000e+00
112	VPW000001	100.9812	101.3719	101.1686	1.0517e-01	1.0122e+00
113	VPW000002	118.7453	119.1359	118.9685	1.1960e-01	1.0796e+00
114	VPW000003	146.6397	146.8350	146.7353	9.8648e-02	1.1963e+00
115	VPW000004	104.8475	105.2381	105.0548	1.1560e-01	1.0264e+00
116	VPW000005	139.3331	139.7238	139.6161	1.0594e-01	1.1653e+00
117	VPW000006	147.4962	147.8869	147.6437	1.2308e-01	1.2004e+00
118	IPW000001	551.7136	559.5229	555.5786	1.7594e+00	9.2127e+00
119	IPW000002	1285.8866	1293.6917	1289.5499	2.2045e+00	1.3015e+01
120	IPW000003	1307.6045	1317.3545	1312.5391	1.9943e+00	1.3158e+01
121	IPW000004	379.4828	380.9477	380.1802	3.8602e-01	3.6084e+00
122	IPW000005	252.1279	253.5926	252.9650	3.4523e-01	2.8273e+00
123	IPW000006	260.7422	262.2070	261.5693	3.4819e-01	2.8758e+00
124	EMPTY	-0.0293	-0.0146	-0.0223	4.1095e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0153	2.9901e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0186	3.1000e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.3149e-03	0.0000e+00
128	IHT000001	128.8522	130.8053	130.0798	5.1521e-01	4.3014e+00
129	IHT000002	132.5678	134.5209	133.7238	5.1496e-01	4.3126e+00
130	IHT000003	132.5631	134.7116	133.6473	5.0596e-01	4.3123e+00
131	IHT000004	130.6994	133.0431	131.9430	5.3443e-01	4.3071e+00
132	IHT000005	129.2522	131.5959	130.5555	5.1426e-01	4.3028e+00
133	IHT000006	124.2213	126.5650	125.5246	5.0961e-01	4.2878e+00
134	IHT000007	131.2100	133.3584	132.4695	4.8018e-01	4.3087e+00
135	IHT000008	129.8428	132.1866	131.0744	4.8206e-01	4.3044e+00
136	IHT000009	130.1534	132.6925	131.4647	5.4080e-01	4.3056e+00
137	IHT000010	132.3419	134.4903	133.3822	4.9697e-01	4.3115e+00
138	IHT000011	130.6641	132.6172	131.6765	4.6779e-01	4.3063e+00
139	IHT000012	128.6734	130.4312	129.3869	4.5026e-01	4.2993e+00
140	IHT000013	92.1734	93.7359	92.8430	4.1814e-01	4.2038e+00
141	IHT000014	127.6144	129.5675	128.4234	4.3855e-01	4.2964e+00
142	IHT000015	94.7219	96.4797	95.4633	3.8854e-01	4.2097e+00
143	IHT000016	88.0459	89.8037	88.8989	3.9203e-01	4.1953e+00
144	IHT000017	104.8828	108.0078	106.5848	8.2672e-01	4.2363e+00
145	IHT000018	-0.8166	0.9413	0.0165	4.0220e-01	4.1000e+00
146	IHT000019	107.3419	109.2950	108.3662	4.8752e-01	4.2408e+00
147	IHT000020	105.9512	107.7091	106.9039	4.6942e-01	4.2371e+00
148	IHT000021	0.1291	1.6916	0.9581	4.2666e-01	4.1000e+00
149	IHT000022	91.9122	93.6700	92.6695	4.4329e-01	4.2034e+00
150	IHT000023	105.3534	107.5019	106.2583	3.9607e-01	4.2355e+00
151	IHT000024	66.7162	68.4741	67.4497	3.7300e-01	4.1551e+00
152	IHT000025	103.3509	104.9134	104.1083	3.8371e-01	4.2301e+00
153	IHT000026	105.5088	107.2666	106.2661	4.2311e-01	4.2355e+00
154	IHT000027	89.5331	91.0956	90.1829	3.9545e-01	4.1980e+00
155	IHT000028	89.9944	92.1428	90.7636	4.7409e-01	4.1993e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0547	108.3984	106.9276	4.7021e-01	4.2371e+00
157	IHT000030	108.5137	110.6622	109.3866	4.5123e-01	4.2434e+00
158	IHT000031	106.3253	108.2784	107.2619	4.5278e-01	4.2380e+00
159	IHT000032	107.3066	109.6503	108.3908	4.9162e-01	4.2409e+00
160	IHT000033	-1.1966	0.5612	-0.5508	3.8900e-01	4.1000e+00
161	IHT000034	94.2959	96.6397	95.0293	4.7764e-01	4.2087e+00
162	IHT000035	123.8753	126.4144	124.8160	4.9422e-01	4.2858e+00
163	IHT000036	92.7734	95.3125	93.7301	4.6706e-01	4.2058e+00

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Velocity 1 = 0.024900 (ft/sec)

Velocity 2 = 0.022400 (ft/sec)

Pressure Drop = 0.015000 (psi)

Tsat in = 0.028992 (deg F) Tsat out = 0.033783 (deg F)

Phi inner = 0.144302 (kBtu/hr-ft2) Phi outer = 0.259598 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0156	0.0200
1	TRF000002	0.0384	0.0489
2	TFM000001	0.1078	0.1253
3	TIN000001	0.0827	0.0965
4	TRV000001	0.0843	0.0967
5	TSR000001	0.4962	0.3016
6	TAO020136	0.0757	0.0376
7	TAO050136	0.0742	0.0347
8	TAO070136	0.0956	0.0417
9	TAO080136	0.2692	0.1126
10	TAO090136	0.0323	0.0130
11	TAO100136	0.0777	0.0306
12	TAO105136	0.0955	0.0371
13	EMPTY	0.0020	0.0048
14	TAO115136	0.0746	0.0286
15	EMPTY	0.4172	1.0458
16	TAO125136	0.0460	0.0167
17	TAO130136	0.2138	0.0829
18	EMPTY	0.0238	0.0571
19	TAO130048	0.0447	0.0163
20	TAO120224	0.0066	0.0025
21	EMPTY	0.0154	0.0389
22	TAO120312	0.0120	0.0042
23	TAO130312	0.0322	0.0116
24	EMPTY	0.0322	0.0814
25	TRT070000	0.0193	0.0090
26	TRT100000	0.0736	0.0285
27	TRT120000	0.0877	0.0312
28	TRT125000	0.0114	0.0040
29	EMPTY	0.0079	0.0197
30	EMPTY	0.0588	0.1480
31	TAF050136	0.1789	0.1263
32	TAF070136	0.0160	0.0098
33	TAF080136	0.7329	0.4204
34	TAF090136	0.2462	0.1348
35	TAF100136	1.2354	0.6445
36	TAF105136	0.1125	0.0571
37	TAF110136	0.1441	0.0705
38	TAF115136	0.0319	0.0155
39	TAF120136	0.0918	0.0435
40	TAF125136	0.1126	0.0521
41	TAF130136	0.1549	0.0702
42	TAF120048	0.1465	0.0639
43	TAF130048	0.0933	0.0395
44	TAF120224	0.1705	0.0798
45	TAF130224	0.0205	0.0092

#	Name	Abs Diff	%Diff
46	EMPTY	0.0363	0.0957
47	EMPTY	0.0989	0.2495
48	TAI130048	0.0558	0.0197
49	EMPTY	0.0049	0.0128
50	TAI130224	0.1005	0.0366
51	EMPTY	0.0365	0.0877
52	TRR130000	1.3636	0.9577
53	TSI000001	0.0847	0.1623
54	TSI000002	0.0809	0.0551
55	TSO000001	0.0304	0.0609
56	TSO000002	0.0377	0.0580
57	TAF020136	0.0191	0.0214
58	TAF120312	0.0408	0.0179
59	TAF130312	0.0418	0.0174
60	EMPTY	0.0021	0.0507
61	EMPTY	0.0015	0.0363
62	EMPTY	0.0013	0.0316
63	EMPTY	0.0007	0.0170
64	EMPTY	0.0004	0.0206
65	EMPTY	0.0013	0.0666
66	EMPTY	0.0003	0.0153
67	EMPTY	0.0001	0.0051
68	EMPTY	0.0002	0.0101
69	EMPTY	0.0002	0.0101
70	EMPTY	0.0018	0.0905
71	EMPTY	0.0022	0.1097
72	EMPTY	0.0022	0.1094
73	EMPTY	0.0013	0.0643
74	EMPTY	0.0001	0.0049
75	EMPTY	0.0003	0.0147
76	EMPTY	0.0011	0.0538
77	EMPTY	0.0020	0.0973
78	EMPTY	0.0027	0.1304
79	EMPTY	0.0000	0.0000
80	PAN020136	0.0423	0.2439
81	PAN050136	0.1171	0.3629
82	PAN070136	0.0683	0.3164
83	PAN080136	0.0261	0.2564
84	PAN090136	0.3378	3.0429
85	PAN100136	0.0828	0.7936
86	PAN105136	0.2084	3.9910
87	PAN110136	0.1172	2.3016
88	PAN115136	0.0005	0.0106
89	PAN120136	0.2077	3.8281
90	PAN125136	0.2142	4.6083
91	PAN130136	0.0660	1.3696
92	PAN120048	0.0655	0.5972
93	PAN130048	0.0391	0.3965
94	PAN120224	0.1173	1.1644
95	PAN130224	0.0816	0.8148
96	PAN120312	0.0608	0.5994
97	PAN130312	0.0211	0.2127
98	PAB000136	0.0197	0.0487
99	PAB100136	0.0047	0.0106
100	PAB125136	0.0252	0.0554

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2451	0.6123
102	PRV000001	0.0048	0.0243
103	PSR000001	0.0025	0.0055
104	PFM000001	0.0269	1.4541
105	PAN000136	0.4126	0.3091
106	PFM000002	0.0246	1.2934
107	EMPTY	0.0025	113.6364
108	EMPTY	0.2028	4.7231
109	EMPTY	0.0034	3400.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0026	866.6666
112	VPW000001	0.1564	0.1543
113	VPW000002	0.1166	0.0979
114	VPW000003	0.1114	0.0759
115	VPW000004	0.0974	0.0926
116	VPW000005	0.0646	0.0462
117	VPW000006	0.0517	0.0350
118	IPW000001	2.8510	0.5105
119	IPW000002	0.2681	0.0208
120	IPW000003	3.8422	0.2936
121	IPW000004	1.3727	0.3598
122	IPW000005	0.3445	0.1360
123	IPW000006	0.4620	0.1763
124	EMPTY	0.0018	8.7805
125	EMPTY	0.0017	12.5000
126	EMPTY	0.0015	8.7719
127	EMPTY	0.0015	9.8039
128	IHT000001	0.0167	0.0128
129	IHT000002	0.0511	0.0382
130	IHT000003	0.0174	0.0130
131	IHT000004	0.0102	0.0077
132	IHT000005	0.1120	0.0859
133	IHT000006	0.0534	0.0426
134	IHT000007	0.0408	0.0308
135	IHT000008	0.0168	0.0128
136	IHT000009	0.0731	0.0556
137	IHT000010	0.0521	0.0391
138	IHT000011	0.0032	0.0024
139	IHT000012	0.0065	0.0050
140	IHT000013	0.0641	0.0691
141	IHT000014	0.0669	0.0521
142	IHT000015	0.0578	0.0606
143	IHT000016	0.0249	0.0280
144	IHT000017	1.3035	1.2381
145	IHT000018	0.4463	103.8390
146	IHT000019	0.0908	0.0839
147	IHT000020	0.1793	0.1680
148	IHT000021	0.1728	22.0043
149	IHT000022	0.1597	0.1726
150	IHT000023	0.1119	0.1054
151	IHT000024	0.1123	0.1668
152	IHT000025	0.1363	0.1311
153	IHT000026	0.1518	0.1430
154	IHT000027	0.1654	0.1837
155	IHT000028	0.2698	0.2964

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2208	0.2061
157	IHT000030	0.1740	0.1588
158	IHT000031	0.1727	0.1607
159	IHT000032	0.2244	0.2066
160	IHT000033	0.2995	119.1803
161	IHT000034	0.2627	0.2757
162	IHT000035	0.3015	0.2410
163	IHT000036	0.2543	0.2706

Velocity 1 = 3.0747 (ft/sec) (+/- 18.1755 %)
 Velocity 2 = 3.1217 (ft/sec) (+/- 7.1275 %)
 Pressure drop = -4.8872 (psi)
 Tsat in = 268.0881 (deg F) Tsat out = 275.3618 (deg F)
 Phi inner = 100.4318 (kBtu/hr-ft2) (+/- 1.5706 %)
 Phi outer = 100.4276 (kBtu/hr-ft2) (+/- 1.5526 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.9892	78.6248	78.3833	1.8663e-01	1.9000e+00
1	TRF000002	78.5312	78.9529	78.8221	1.1964e-01	1.9001e+00
2	TFM000001	87.0973	87.9355	87.5917	2.0522e-01	1.9002e+00
3	TIN000001	86.9384	87.5690	87.2746	1.5593e-01	1.9002e+00
4	TRV000001	88.1545	89.0951	88.6104	2.1910e-01	1.9002e+00
5	TSR000001	161.2763	165.1162	163.3247	8.0998e-01	1.9059e+00
6	TAO020136	204.8683	205.8304	205.3800	2.1780e-01	1.9123e+00
7	TAO050136	225.1591	225.9147	225.5251	1.8176e-01	1.9162e+00
8	TAO070136	242.9670	244.0018	243.4713	2.2631e-01	1.9202e+00
9	TAO080136	253.1897	254.1166	253.7423	1.8927e-01	1.9226e+00
10	TAO090136	262.0622	263.2648	262.7467	2.5413e-01	1.9249e+00
11	TAO100136	268.0437	268.8742	268.5012	2.0839e-01	1.9264e+00
12	TAO105136	273.2437	274.3489	273.7741	3.0370e-01	1.9278e+00
13	EMPTY	40.9819	41.4403	41.3028	1.2248e-01	1.9011e+00
14	TAO115136	276.6400	277.9303	277.3075	3.7183e-01	1.9287e+00
15	EMPTY	32.0000	43.5000	39.4486	3.2665e+00	1.9010e+00
16	TAO125136	285.5871	286.9549	286.1054	3.2867e-01	1.9312e+00
17	TAO130136	274.2913	275.9255	275.2394	3.6990e-01	1.9282e+00
18	EMPTY	41.6693	42.8139	42.1960	2.5437e-01	1.9012e+00
19	TAO130048	286.8427	288.2095	287.5206	3.2299e-01	1.9316e+00
20	TAO120224	278.6913	280.5246	279.8391	3.6640e-01	1.9294e+00
21	EMPTY	39.3761	39.6057	39.5689	8.5020e-02	1.9011e+00
22	TAO120312	295.1637	296.0740	295.5572	1.8788e-01	1.9340e+00
23	TAO130312	288.6572	290.0225	289.3602	2.4678e-01	1.9321e+00
24	EMPTY	39.1464	39.8352	39.5597	1.7353e-01	1.9011e+00
25	TRT070000	229.3416	230.5784	229.9615	3.2126e-01	1.9172e+00
26	TRT100000	275.8072	276.7249	276.2954	2.0753e-01	1.9285e+00
27	TRT120000	289.4329	290.3452	289.9221	1.8312e-01	1.9323e+00
28	TRT125000	294.5473	295.1825	294.8853	1.6678e-01	1.9338e+00
29	EMPTY	40.0646	40.2940	40.1243	1.0165e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.7066	2.3717e-01	1.9011e+00
31	TAF050136	151.6199	153.9011	152.6913	5.0051e-01	1.9046e+00
32	TAF070136	176.3933	178.6271	177.3887	5.3745e-01	1.9078e+00
33	TAF080136	188.4563	190.6712	189.6804	5.0065e-01	1.9096e+00
34	TAF090136	197.2277	200.1188	198.8632	6.2238e-01	1.9112e+00
35	TAF100136	209.4060	211.4183	210.2687	4.3638e-01	1.9132e+00
36	TAF105136	216.8245	220.8822	218.9704	1.0126e+00	1.9149e+00
37	TAF110136	223.6005	232.0806	228.5954	1.9007e+00	1.9169e+00
38	TAF115136	228.1862	232.6154	230.4569	9.5092e-01	1.9173e+00
39	TAF120136	232.9163	237.3201	234.6719	1.2660e+00	1.9182e+00
40	TAF125136	238.7420	242.6598	240.5938	8.2961e-01	1.9195e+00
41	TAF130136	242.9504	245.1022	243.8862	5.7551e-01	1.9203e+00
42	TAF120048	250.7930	253.6100	251.9047	6.4329e-01	1.9222e+00
43	TAF130048	262.1328	264.4477	263.2402	5.2916e-01	1.9250e+00
44	TAF120224	233.7569	236.1100	234.9170	6.4966e-01	1.9182e+00
45	TAF130224	246.1855	248.3477	247.0167	4.9095e-01	1.9210e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9008	2.0299e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7893	1.5378e-01	1.9011e+00
48	TAI130048	294.1180	295.2102	294.6859	2.4493e-01	1.9337e+00
49	EMPTY	37.7675	38.4572	38.2365	1.7964e-01	1.9010e+00
50	TAI130224	288.8906	290.1707	289.4976	2.8431e-01	1.9322e+00
51	EMPTY	41.2111	41.8984	41.6006	1.8072e-01	1.9012e+00
52	TRR130000	142.0380	144.0420	143.0722	4.1103e-01	1.9036e+00
53	TSI000001	51.9167	52.5646	52.2366	1.7431e-01	1.9002e+00
54	TSI000002	160.3264	161.6135	161.0355	2.8923e-01	1.9056e+00
55	TSO000001	49.3200	50.4056	49.8325	2.2364e-01	1.9003e+00
56	TSO000002	66.1076	67.0683	66.5942	2.1477e-01	1.9000e+00
57	TAF020136	89.0425	89.8836	89.4293	1.9983e-01	1.9003e+00
58	TAF120312	249.7197	255.0322	251.4770	9.5667e-01	1.9221e+00
59	TAF130312	269.1053	272.0527	270.5572	7.5757e-01	1.9269e+00
60	EMPTY	4.9268	4.9512	4.9409	5.7732e-03	0.0000e+00
61	EMPTY	4.9170	4.9268	4.9213	2.7267e-03	0.0000e+00
62	EMPTY	4.8975	4.9072	4.9024	2.0903e-03	0.0000e+00
63	EMPTY	4.8877	4.8975	4.8931	2.0337e-03	0.0000e+00
64	EMPTY	2.2803	2.2852	2.2839	2.1635e-03	0.0000e+00
65	EMPTY	2.2900	2.2949	2.2935	2.2603e-03	0.0000e+00
66	EMPTY	2.2949	2.2998	2.2996	9.6655e-04	0.0000e+00
67	EMPTY	2.3047	2.3096	2.3048	6.9053e-04	0.0000e+00
68	EMPTY	2.3047	2.3096	2.3092	1.3381e-03	0.0000e+00
69	EMPTY	2.3145	2.3193	2.3157	2.1635e-03	0.0000e+00
70	EMPTY	2.3193	2.3242	2.3201	1.8082e-03	0.0000e+00
71	EMPTY	2.3340	2.3389	2.3341	6.9053e-04	0.0000e+00
72	EMPTY	2.3340	2.3389	2.3387	9.6655e-04	0.0000e+00
73	EMPTY	2.3438	2.3486	2.3457	2.4164e-03	0.0000e+00
74	EMPTY	2.3486	2.3535	2.3519	2.3365e-03	0.0000e+00
75	EMPTY	2.3584	2.3633	2.3586	9.6655e-04	0.0000e+00
76	EMPTY	2.3584	2.3633	2.3630	1.1714e-03	0.0000e+00
77	EMPTY	2.3682	2.3779	2.3726	1.7784e-03	0.0000e+00
78	EMPTY	2.3828	2.3877	2.3842	2.2146e-03	0.0000e+00
79	EMPTY	2.3975	2.4023	2.3979	1.3381e-03	0.0000e+00
80	PAN020136	-18.1919	-16.8186	-17.2123	2.7242e-01	8.7106e-01
81	PAN050136	-33.2769	-31.1406	-32.6329	3.2521e-01	1.6820e+00
82	PAN070136	-21.2734	-20.0527	-20.6753	2.5156e-01	8.7153e-01
83	PAN080136	-11.4152	-9.5841	-10.3730	3.2901e-01	8.7039e-01
84	PAN090136	-11.7084	-9.7247	-10.5334	4.4779e-01	8.7040e-01
85	PAN100136	-11.2607	-7.3698	-9.3748	1.0357e+00	8.7032e-01
86	PAN105136	-7.7288	-7.5762	-7.6418	4.3624e-02	8.7021e-01
87	PAN110136	-0.7999	3.4725	1.1105	9.1785e-01	8.7000e-01
88	PAN115136	-6.3381	-6.1093	-6.2390	5.1699e-02	8.7014e-01
89	PAN120136	-7.0569	-2.2504	-5.2716	1.1443e+00	8.7010e-01
90	PAN125136	-7.1993	0.6589	-4.3200	2.2977e+00	8.7007e-01
91	PAN130136	-6.4685	1.5424	-2.5455	1.6711e+00	8.7002e-01
92	PAN120048	-12.1194	-6.0159	-11.1535	1.3529e+00	8.7045e-01
93	PAN130048	-9.7983	-3.0845	-6.9282	1.5132e+00	8.7017e-01
94	PAN120224	-11.9327	-7.1262	-9.0854	1.0243e+00	8.7030e-01
95	PAN130224	-10.4261	-5.5433	-9.0040	8.5720e-01	8.7029e-01
96	PAN120312	-12.3574	-5.4910	-9.7939	1.5372e+00	8.7034e-01
97	PAN130312	-10.2643	-3.6267	-7.1210	1.4150e+00	8.7018e-01
98	PAB000136	40.3938	40.6227	40.4854	4.8055e-02	5.8876e-01
99	PAB100136	44.2269	44.6847	44.4393	1.1393e-01	5.9054e-01
100	PAB125136	45.2979	45.9388	45.6834	1.4210e-01	5.9114e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9808	40.4690	40.2200	1.2565e-01	7.5671e-01
102	PRV000001	19.4833	19.6054	19.5639	5.8413e-02	7.5159e-01
103	PSR000001	45.2872	45.4093	45.4068	1.7263e-02	7.5854e-01
104	PFM000001	1.2621	1.5368	1.4013	7.2207e-02	5.0001e-01
105	PAN000136	-138.4353	-132.9421	-135.3042	1.3666e+00	4.9316e+00
106	PFM000002	1.4214	1.4721	1.4457	1.4940e-02	2.0003e-01
107	EMPTY	-0.0049	0.0049	0.0004	3.9261e-03	0.0000e+00
108	EMPTY	-6.8652	-3.9307	-4.4672	6.5075e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0003	2.0716e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	101.1766	101.5672	101.3914	9.8648e-02	1.0130e+00
113	VPW000002	118.9406	119.3313	119.1164	9.0412e-02	1.0802e+00
114	VPW000003	146.8350	147.2256	146.9522	1.1161e-01	1.1973e+00
115	VPW000004	104.8475	105.4334	105.2225	1.2992e-01	1.0270e+00
116	VPW000005	139.7238	140.1144	139.8877	1.2701e-01	1.1664e+00
117	VPW000006	147.6916	148.0822	147.8204	1.1578e-01	1.2011e+00
118	IPW000001	536.0948	543.9042	540.2339	1.7920e+00	9.1556e+00
119	IPW000002	1299.5455	1311.2531	1306.2968	2.9292e+00	1.3119e+01
120	IPW000003	1325.1544	1331.0044	1327.3386	1.7898e+00	1.3250e+01
121	IPW000004	381.4359	383.3891	382.6760	4.7525e-01	3.6248e+00
122	IPW000005	253.5926	255.0573	254.3250	3.4523e-01	2.8349e+00
123	IPW000006	263.6719	265.1367	264.3750	3.4400e-01	2.8917e+00
124	EMPTY	-0.0293	-0.0098	-0.0200	4.0971e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0128	2.9413e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0167	3.2851e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0144	3.1828e-03	0.0000e+00
128	IHT000001	129.2428	131.7819	130.2233	6.4415e-01	4.3018e+00
129	IHT000002	132.9584	135.4975	133.8921	6.0398e-01	4.3131e+00
130	IHT000003	132.7584	135.2975	133.7936	5.9353e-01	4.3128e+00
131	IHT000004	130.8947	133.4337	132.0782	5.9243e-01	4.3075e+00
132	IHT000005	129.4475	131.7912	130.5529	5.7400e-01	4.3028e+00
133	IHT000006	124.4166	127.1509	125.5493	5.7453e-01	4.2879e+00
134	IHT000007	131.6006	134.1397	132.4834	5.1333e-01	4.3087e+00
135	IHT000008	130.0381	132.5772	131.1279	4.9770e-01	4.3046e+00
136	IHT000009	130.5441	132.6925	131.4034	4.2864e-01	4.3054e+00
137	IHT000010	132.5372	134.6856	133.4590	5.0538e-01	4.3117e+00
138	IHT000011	131.0547	132.8125	131.7813	4.4475e-01	4.3066e+00
139	IHT000012	128.6734	130.4312	129.4546	4.8004e-01	4.2995e+00
140	IHT000013	91.9781	93.9313	92.9000	4.4300e-01	4.2039e+00
141	IHT000014	127.6144	129.7628	128.5479	4.8854e-01	4.2968e+00
142	IHT000015	94.5266	97.0656	95.5383	4.8116e-01	4.2098e+00
143	IHT000016	87.8506	90.5850	88.9990	5.0937e-01	4.1955e+00
144	IHT000017	103.7109	108.7891	106.3320	1.0076e+00	4.2356e+00
145	IHT000018	-1.7931	1.1366	-0.1173	4.4833e-01	4.1000e+00
146	IHT000019	107.3419	109.4903	108.1192	4.8567e-01	4.2402e+00
147	IHT000020	105.7559	107.9044	106.6465	5.1017e-01	4.2364e+00
148	IHT000021	0.1291	2.4728	1.0548	4.9412e-01	4.1000e+00
149	IHT000022	91.7169	93.8653	92.4786	5.2386e-01	4.2030e+00
150	IHT000023	105.1581	107.1113	106.1504	4.6495e-01	4.2352e+00
151	IHT000024	66.5209	68.4741	67.3139	4.2938e-01	4.1549e+00
152	IHT000025	103.1556	104.9134	103.9876	4.4957e-01	4.2298e+00
153	IHT000026	105.3134	107.0713	106.2041	4.6548e-01	4.2353e+00
154	IHT000027	88.9472	91.0956	90.1308	5.2261e-01	4.1979e+00
155	IHT000028	90.1897	92.1428	90.9123	4.6059e-01	4.1996e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.4453	108.2031	107.0977	4.4400e-01	4.2376e+00
157	IHT000030	108.7091	110.6622	109.5567	4.4923e-01	4.2439e+00
158	IHT000031	106.5206	108.6691	107.3956	4.7718e-01	4.2383e+00
159	IHT000032	107.5019	109.6503	108.4941	4.6327e-01	4.2411e+00
160	IHT000033	-1.0013	0.7566	-0.2942	3.9634e-01	4.1000e+00
161	IHT000034	94.1006	96.2491	95.1865	4.5874e-01	4.2090e+00
162	IHT000035	124.0706	126.0238	125.0629	4.7816e-01	4.2865e+00
163	IHT000036	92.9688	94.9219	93.8320	4.7530e-01	4.2060e+00

Velocity 1 = 3.0638 (ft/sec) (+/- 18.3044 %)
Velocity 2 = 3.1528 (ft/sec) (+/- 7.0179 %)
Pressure drop = -4.8346 (psi)
Tsats in = 268.1143 (deg F) Tsats out = 275.3810 (deg F)
Phi inner = 100.4100 (kBtu/hr-ft2) (+/- 1.5706 %)
Phi outer = 100.0975 (kBtu/hr-ft2) (+/- 1.5538 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.2011	78.8366	78.3827	1.5592e-01	1.9000e+00
1	TRF000002	78.5312	78.9529	78.7980	1.2748e-01	1.9001e+00
2	TFM000001	86.9926	88.0390	87.4779	2.3868e-01	1.9002e+00
3	TIN000001	86.7282	87.4638	87.1935	1.6607e-01	1.9002e+00
4	TRV000001	88.2591	88.9911	88.6239	1.8097e-01	1.9002e+00
5	TSR000001	163.8369	165.4120	164.8127	4.0080e-01	1.9060e+00
6	TAO020136	204.9642	205.8304	205.3158	1.9206e-01	1.9123e+00
7	TAO050136	224.9694	225.8212	225.5248	1.8454e-01	1.9162e+00
8	TAO070136	243.0610	244.0957	243.5183	2.0499e-01	1.9202e+00
9	TAO080136	253.3752	254.2099	253.7894	1.6188e-01	1.9226e+00
10	TAO090136	262.3401	263.2643	262.7437	2.0733e-01	1.9249e+00
11	TAO100136	268.1356	268.8739	268.5500	1.7879e-01	1.9264e+00
12	TAO105136	273.1518	274.3490	273.6817	2.7267e-01	1.9277e+00
13	EMPTY	40.9819	41.4403	41.3327	1.3314e-01	1.9012e+00
14	TAO115136	276.3628	277.9309	277.3212	3.3712e-01	1.9287e+00
15	EMPTY	32.2314	43.5000	40.0728	3.3570e+00	1.9011e+00
16	TAO125136	285.6783	287.0458	286.2871	3.5469e-01	1.9313e+00
17	TAO130136	273.8394	275.9255	275.2124	3.2098e-01	1.9282e+00
18	EMPTY	41.6693	42.8139	42.2581	2.9551e-01	1.9012e+00
19	TAO130048	286.6606	288.1178	287.5140	3.4414e-01	1.9316e+00
20	TAO120224	278.4159	279.9756	279.2733	3.9604e-01	1.9293e+00
21	EMPTY	39.3761	39.6057	39.5822	7.0214e-02	1.9011e+00
22	TAO120312	294.9821	295.9833	295.5540	2.3049e-01	1.9340e+00
23	TAO130312	288.5661	289.3869	289.0421	2.0310e-01	1.9321e+00
24	EMPTY	39.3761	39.8352	39.7040	1.4817e-01	1.9011e+00
25	TRT070000	229.2472	230.4824	229.8675	3.1238e-01	1.9171e+00
26	TRT100000	275.8990	276.8159	276.3278	2.1621e-01	1.9285e+00
27	TRT120000	289.6156	290.3452	289.9544	1.5352e-01	1.9323e+00
28	TRT125000	294.5478	295.1839	294.8847	1.6342e-01	1.9338e+00
29	EMPTY	40.0646	40.2940	40.1349	1.0683e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7649	2.1573e-01	1.9011e+00
31	TAF050136	151.8186	153.8027	152.6443	4.4829e-01	1.9046e+00
32	TAF070136	176.1009	178.6282	177.3990	5.4513e-01	1.9078e+00
33	TAF080136	188.4545	190.8618	189.5933	5.2741e-01	1.9096e+00
34	TAF090136	197.3246	200.3113	198.7472	5.1826e-01	1.9111e+00
35	TAF100136	209.2143	211.1312	210.2276	4.5963e-01	1.9132e+00
36	TAF105136	216.6355	220.4137	218.9986	9.3075e-01	1.9149e+00
37	TAF110136	223.9794	230.9536	228.4207	1.6245e+00	1.9168e+00
38	TAF115136	228.6579	232.6154	230.5686	8.8575e-01	1.9173e+00
39	TAF120136	232.8241	236.9476	234.0691	9.7355e-01	1.9180e+00
40	TAF125136	238.5553	242.3795	240.2680	8.4268e-01	1.9194e+00
41	TAF130136	242.7632	245.6639	243.7830	5.9556e-01	1.9202e+00
42	TAF120048	250.3235	253.3271	251.7473	6.9073e-01	1.9221e+00
43	TAF130048	262.2253	264.3549	263.2119	4.7951e-01	1.9250e+00
44	TAF120224	233.6634	237.1445	235.0193	6.9625e-01	1.9183e+00
45	TAF130224	245.7149	248.3477	247.1508	5.4501e-01	1.9210e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9739	2.0049e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8258	1.1436e-01	1.9011e+00
48	TAI130048	294.2091	295.1189	294.6270	2.4349e-01	1.9337e+00
49	EMPTY	37.9974	38.4572	38.2414	1.5139e-01	1.9010e+00
50	TAI130224	288.7072	289.9881	289.4988	2.9495e-01	1.9322e+00
51	EMPTY	41.2111	41.8984	41.5712	1.6198e-01	1.9012e+00
52	TRR130000	139.9327	143.4415	141.7150	7.3020e-01	1.9035e+00
53	TSI000001	52.0250	52.6728	52.3529	1.8412e-01	1.9002e+00
54	TSI000002	160.6237	161.7124	161.1307	2.7516e-01	1.9056e+00
55	TSO000001	49.4285	50.1883	49.8342	1.8105e-01	1.9003e+00
56	TSO000002	65.8940	67.1748	66.7261	2.6768e-01	1.9000e+00
57	TAF020136	89.1475	89.8836	89.4890	2.1091e-01	1.9003e+00
58	TAF120312	250.0930	252.7040	251.1515	6.1671e-01	1.9220e+00
59	TAF130312	269.2893	272.2367	270.5454	6.7912e-01	1.9269e+00
60	EMPTY	4.9268	4.9512	4.9400	7.1873e-03	0.0000e+00
61	EMPTY	4.9072	4.9268	4.9195	5.0941e-03	0.0000e+00
62	EMPTY	4.8877	4.9072	4.9005	4.9529e-03	0.0000e+00
63	EMPTY	4.8828	4.8975	4.8899	4.8890e-03	0.0000e+00
64	EMPTY	2.2754	2.2852	2.2815	2.7351e-03	0.0000e+00
65	EMPTY	2.2852	2.2949	2.2904	2.4080e-03	0.0000e+00
66	EMPTY	2.2900	2.2998	2.2962	2.5944e-03	0.0000e+00
67	EMPTY	2.2998	2.3047	2.3026	2.4414e-03	0.0000e+00
68	EMPTY	2.2998	2.3096	2.3064	2.5511e-03	0.0000e+00
69	EMPTY	2.3096	2.3193	2.3127	2.7646e-03	0.0000e+00
70	EMPTY	2.3145	2.3242	2.3177	2.8866e-03	0.0000e+00
71	EMPTY	2.3291	2.3340	2.3305	2.2287e-03	0.0000e+00
72	EMPTY	2.3291	2.3389	2.3346	2.3655e-03	0.0000e+00
73	EMPTY	2.3389	2.3486	2.3430	2.3047e-03	0.0000e+00
74	EMPTY	2.3438	2.3535	2.3475	2.2871e-03	0.0000e+00
75	EMPTY	2.3486	2.3584	2.3550	2.4826e-03	0.0000e+00
76	EMPTY	2.3535	2.3633	2.3593	2.1547e-03	0.0000e+00
77	EMPTY	2.3633	2.3730	2.3684	1.7146e-03	0.0000e+00
78	EMPTY	2.3779	2.3828	2.3804	2.4662e-03	0.0000e+00
79	EMPTY	2.3926	2.3975	2.3953	2.4538e-03	0.0000e+00
80	PAN020136	-17.5815	-16.8186	-17.1300	1.8217e-01	8.7105e-01
81	PAN050136	-33.1243	-32.0562	-32.6758	2.6135e-01	1.6820e+00
82	PAN070136	-21.1208	-20.2053	-20.6460	1.9777e-01	8.7153e-01
83	PAN080136	-11.2626	-9.7367	-10.3782	3.4365e-01	8.7039e-01
84	PAN090136	-11.8610	-9.4196	-10.6714	5.2303e-01	8.7041e-01
85	PAN100136	-11.6422	-7.7512	-9.5075	1.0206e+00	8.7032e-01
86	PAN105136	-7.7288	-6.8895	-7.6229	1.1842e-01	8.7021e-01
87	PAN110136	-1.5629	3.0148	1.2335	1.0969e+00	8.7001e-01
88	PAN115136	-6.3381	-6.1855	-6.2478	5.3209e-02	8.7014e-01
89	PAN120136	-7.0569	0.4199	-3.7077	1.7530e+00	8.7005e-01
90	PAN125136	-7.2756	4.0922	-5.3247	2.3166e+00	8.7010e-01
91	PAN130136	-5.0952	2.3053	-2.3751	1.4892e+00	8.7002e-01
92	PAN120048	-12.1194	-8.1521	-11.3860	1.0002e+00	8.7047e-01
93	PAN130048	-10.1035	-3.2371	-7.0969	1.3824e+00	8.7018e-01
94	PAN120224	-12.5431	-5.2952	-9.4680	1.4881e+00	8.7032e-01
95	PAN130224	-10.3499	-5.0093	-8.6138	9.8193e-01	8.7027e-01
96	PAN120312	-12.2811	-6.1013	-9.6420	1.3379e+00	8.7033e-01
97	PAN130312	-10.5695	-5.9918	-8.0284	8.8976e-01	8.7023e-01
98	PAB000136	40.3938	40.6227	40.5031	5.4337e-02	5.8877e-01
99	PAB100136	44.2269	44.6847	44.4343	1.0981e-01	5.9054e-01
100	PAB125136	45.2521	45.9846	45.6978	1.5988e-01	5.9114e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1028	40.4690	40.3021	1.0773e-01	7.5674e-01
102	PRV000001	19.4833	19.6054	19.5854	4.5586e-02	7.5160e-01
103	PSR000001	45.2872	45.5313	45.4093	3.5239e-02	7.5854e-01
104	PFM000001	1.2621	1.5368	1.3910	6.4517e-02	5.0001e-01
105	PAN000136	-138.4353	-131.1111	-133.8483	1.7839e+00	4.9314e+00
106	PFM000002	1.4552	1.5059	1.4755	1.1427e-02	2.0003e-01
107	EMPTY	-0.0049	0.0000	-0.0045	1.3508e-03	0.0000e+00
108	EMPTY	-6.5186	-3.8623	-4.2892	5.0856e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0021	2.4414e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0015	2.2737e-03	0.0000e+00
112	VPW000001	101.1766	101.5672	101.3360	1.3025e-01	1.0128e+00
113	VPW000002	118.9406	119.3313	119.0602	1.0409e-01	1.0800e+00
114	VPW000003	146.8350	147.2256	146.9785	1.0378e-01	1.1974e+00
115	VPW000004	105.0428	105.4334	105.1664	1.2413e-01	1.0268e+00
116	VPW000005	139.5284	140.1144	139.8432	1.4819e-01	1.1662e+00
117	VPW000006	147.6916	148.0822	147.8828	1.2282e-01	1.2014e+00
118	IPW000001	538.0472	543.9042	540.7565	1.5340e+00	9.1575e+00
119	IPW000002	1297.5942	1301.4967	1299.4259	1.5634e+00	1.3076e+01
120	IPW000003	1323.2045	1329.0544	1326.5479	1.3202e+00	1.3245e+01
121	IPW000004	381.9242	383.3891	382.4123	3.1518e-01	3.6231e+00
122	IPW000005	253.5926	255.0573	254.2404	3.2121e-01	2.8344e+00
123	IPW000006	263.6719	265.1367	264.4691	3.8206e-01	2.8923e+00
124	EMPTY	-0.0293	-0.0146	-0.0224	3.5824e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0152	2.5669e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0193	2.9833e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.4083e-03	0.0000e+00
128	IHT000001	128.8522	131.3913	129.9603	5.4283e-01	4.3010e+00
129	IHT000002	132.5678	134.9116	133.6839	5.0113e-01	4.3124e+00
130	IHT000003	132.3678	134.9069	133.5636	5.4756e-01	4.3121e+00
131	IHT000004	130.6994	133.2384	131.8433	5.8729e-01	4.3068e+00
132	IHT000005	129.2522	131.5959	130.4080	5.5506e-01	4.3024e+00
133	IHT000006	124.2213	126.7603	125.4090	5.7199e-01	4.2875e+00
134	IHT000007	131.2100	133.5538	132.3460	5.8549e-01	4.3083e+00
135	IHT000008	129.8428	132.1866	130.9549	5.8892e-01	4.3041e+00
136	IHT000009	130.3488	132.4972	131.3771	5.9772e-01	4.3053e+00
137	IHT000010	132.1466	134.2950	133.2108	5.7091e-01	4.3110e+00
138	IHT000011	130.4688	132.8125	131.5131	5.5751e-01	4.3058e+00
139	IHT000012	128.2828	130.2359	129.2394	5.3673e-01	4.2989e+00
140	IHT000013	91.5875	93.7359	92.6079	5.5995e-01	4.2033e+00
141	IHT000014	127.2237	129.5675	128.2481	5.0827e-01	4.2959e+00
142	IHT000015	94.3313	96.2844	95.2839	4.8605e-01	4.2093e+00
143	IHT000016	87.8506	89.6084	88.7594	4.8428e-01	4.1950e+00
144	IHT000017	104.1016	107.0313	105.5206	6.4381e-01	4.2336e+00
145	IHT000018	-1.4025	0.9413	-0.2386	4.7334e-01	4.1000e+00
146	IHT000019	107.1466	109.0997	108.0354	4.3319e-01	4.2399e+00
147	IHT000020	105.5606	107.5137	106.5092	4.8337e-01	4.2361e+00
148	IHT000021	-0.2616	1.8869	0.8665	4.1483e-01	4.1000e+00
149	IHT000022	91.1309	93.2794	92.3506	4.7262e-01	4.2027e+00
150	IHT000023	105.1581	106.7206	105.9912	4.0614e-01	4.2348e+00
151	IHT000024	66.3256	67.8881	67.1667	3.8489e-01	4.1547e+00
152	IHT000025	102.9603	104.7181	103.8611	4.0817e-01	4.2295e+00
153	IHT000026	105.1181	106.8759	106.0389	4.0265e-01	4.2349e+00
154	IHT000027	88.9472	91.0956	89.9517	4.7675e-01	4.1975e+00
155	IHT000028	89.7991	92.1428	90.8035	5.4080e-01	4.1993e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0547	108.0078	106.8917	5.2891e-01	4.2370e+00
157	IHT000030	108.5137	110.2716	109.2591	4.9583e-01	4.2431e+00
158	IHT000031	106.3253	107.8878	107.0866	4.7382e-01	4.2375e+00
159	IHT000032	107.3066	109.2597	108.2194	5.3248e-01	4.2404e+00
160	IHT000033	-1.1966	0.3659	-0.5628	4.5723e-01	4.1000e+00
161	IHT000034	94.1006	96.0537	94.9257	5.0628e-01	4.2085e+00
162	IHT000035	123.8753	126.0238	124.7881	5.6154e-01	4.2857e+00
163	IHT000036	92.7734	94.5313	93.5507	4.8088e-01	4.2054e+00

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Velocity 1 = 0.010900 (ft/sec)

Velocity 2 = 0.031100 (ft/sec)

Pressure Drop = 0.052600 (psi)

Tsat in = 0.026184 (deg F) Tsat out = 0.019226 (deg F)

Phi inner = 0.021797 (kBtu/hr-ft2) Phi outer = 0.330093 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0006	0.0008
1	TRF000002	0.0241	0.0306
2	TFM000001	0.1138	0.1299
3	TIN000001	0.0811	0.0929
4	TRV000001	0.0135	0.0152
5	TSR000001	1.4880	0.9111
6	TAO020136	0.0642	0.0313
7	TAO050136	0.0003	0.0001
8	TAO070136	0.0470	0.0193
9	TAO080136	0.0471	0.0186
10	TAO090136	0.0030	0.0011
11	TAO100136	0.0488	0.0182
12	TAO105136	0.0924	0.0338
13	EMPTY	0.0299	0.0724
14	TAO115136	0.0137	0.0049
15	EMPTY	0.6242	1.5823
16	TAO125136	0.1817	0.0635
17	TAO130136	0.0270	0.0098
18	EMPTY	0.0621	0.1472
19	TAC130048	0.0066	0.0023
20	TAO120224	0.5658	0.2022
21	EMPTY	0.0133	0.0336
22	TAO120312	0.0032	0.0011
23	TAO130312	0.3181	0.1099
24	EMPTY	0.1443	0.3648
25	TRT070000	0.0940	0.0409
26	TRT100000	0.0324	0.0117
27	TRT120000	0.0323	0.0111
28	TRT125000	0.0006	0.0002
29	EMPTY	0.0106	0.0264
30	EMPTY	0.0583	0.1468
31	TAF050136	0.0470	0.0308
32	TAF070136	0.0103	0.0058
33	TAF080136	0.0871	0.0459
34	TAF090136	0.1160	0.0583
35	TAF100136	0.0411	0.0195
36	TAF105136	0.0282	0.0129
37	TAF110136	0.1747	0.0764
38	TAF115136	0.1117	0.0485
39	TAF120136	0.6028	0.2569
40	TAF125136	0.3258	0.1354
41	TAF130136	0.1032	0.0423
42	TAF120048	0.1574	0.0625
43	TAF130048	0.0283	0.0107
44	TAF120224	0.1023	0.0435
45	TAF130224	0.1341	0.0543

#	Name	Abs Diff	%Diff
46	EMPTY	0.0731	0.1929
47	EMPTY	0.0365	0.0917
48	TAI130048	0.0589	0.0200
49	EMPTY	0.0049	0.0128
50	TAI130224	0.0012	0.0004
51	EMPTY	0.0294	0.0707
52	TRR130000	1.3572	0.9486
53	TSI000001	0.1163	0.2226
54	TSI000002	0.0952	0.0591
55	TSO000001	0.0017	0.0034
56	TSO000002	0.1319	0.1981
57	TAF020136	0.0597	0.0668
58	TAF120312	0.3255	0.1294
59	TAF130312	0.0118	0.0044
60	EMPTY	0.0009	0.0182
61	EMPTY	0.0018	0.0366
62	EMPTY	0.0019	0.0388
63	EMPTY	0.0032	0.0654
64	EMPTY	0.0024	0.1051
65	EMPTY	0.0031	0.1352
66	EMPTY	0.0034	0.1478
67	EMPTY	0.0022	0.0955
68	EMPTY	0.0028	0.1213
69	EMPTY	0.0030	0.1296
70	EMPTY	0.0024	0.1035
71	EMPTY	0.0036	0.1542
72	EMPTY	0.0041	0.1753
73	EMPTY	0.0027	0.1151
74	EMPTY	0.0044	0.1871
75	EMPTY	0.0036	0.1526
76	EMPTY	0.0037	0.1566
77	EMPTY	0.0042	0.1770
78	EMPTY	0.0038	0.1594
79	EMPTY	0.0026	0.1084
80	PAN020136	0.0823	0.4781
81	PAN050136	0.0429	0.1315
82	PAN070136	0.0293	0.1417
83	PAN080136	0.0052	0.0501
84	PAN090136	0.1380	1.3101
85	PAN100136	0.1327	1.4155
86	PAN105136	0.0189	0.2473
87	PAN110136	0.1230	11.0761
88	PAN115136	0.0088	0.1410
89	PAN120136	1.5639	29.6665
90	PAN125136	1.0047	23.2569
91	PAN130136	0.1704	6.6942
92	PAN120048	0.2325	2.0845
93	PAN130048	0.1687	2.4350
94	PAN120224	0.3826	4.2112
95	PAN130224	0.3902	4.3336
96	PAN120312	0.1519	1.5510
97	PAN130312	0.9074	12.7426
98	PAB000136	0.0177	0.0437
99	PAB100136	0.0050	0.0113
100	PAB125136	0.0144	0.0315

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0821	0.2041
102	PRV000001	0.0215	0.1099
103	PSR000001	0.0025	0.0055
104	PFM000001	0.0103	0.7350
105	PAN000136	1.4559	1.0760
106	PFM000002	0.0298	2.0613
107	EMPTY	0.0049	1224.9999
108	EMPTY	0.1780	3.9846
109	EMPTY	0.0024	799.9999
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0013	650.0000
112	VPW000001	0.0554	0.0546
113	VPW000002	0.0562	0.0472
114	VPW000003	0.0263	0.0179
115	VPW000004	0.0561	0.0533
116	VPW000005	0.0445	0.0318
117	VPW000006	0.0624	0.0422
118	IPW000001	0.5226	0.0967
119	IPW000002	6.8708	0.5260
120	IPW000003	0.7908	0.0596
121	IPW000004	0.2637	0.0689
122	IPW000005	0.0846	0.0333
123	IPW000006	0.0941	0.0356
124	EMPTY	0.0024	12.0000
125	EMPTY	0.0024	18.7500
126	EMPTY	0.0026	15.5689
127	EMPTY	0.0020	13.8889
128	IHT000001	0.2630	0.2020
129	IHT000002	0.2082	0.1555
130	IHT000003	0.2300	0.1719
131	IHT000004	0.2349	0.1778
132	IHT000005	0.1449	0.1110
133	IHT000006	0.1403	0.1118
134	IHT000007	0.1374	0.1037
135	IHT000008	0.1730	0.1319
136	IHT000009	0.0263	0.0200
137	IHT000010	0.2482	0.1860
138	IHT000011	0.2682	0.2035
139	IHT000012	0.2152	0.1662
140	IHT000013	0.2921	0.3144
141	IHT000014	0.2998	0.2332
142	IHT000015	0.2544	0.2663
143	IHT000016	0.2396	0.2692
144	IHT000017	0.8114	0.7631
145	IHT000018	0.1213	103.4101
146	IHT000019	0.0838	0.0775
147	IHT000020	0.1373	0.1287
148	IHT000021	0.1883	17.8517
149	IHT000022	0.1280	0.1384
150	IHT000023	0.1592	0.1500
151	IHT000024	0.1472	0.2187
152	IHT000025	0.1265	0.1217
153	IHT000026	0.1652	0.1555
154	IHT000027	0.1791	0.1987
155	IHT000028	0.1088	0.1197

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2060	0.1923
157	IHT000030	0.2976	0.2716
158	IHT000031	0.3090	0.2877
159	IHT000032	0.2747	0.2532
160	IHT000033	0.2686	91.2984
161	IHT000034	0.2608	0.2740
162	IHT000035	0.2748	0.2197
163	IHT000036	0.2813	0.2998

Velocity 1 = 2.9041 (ft/sec) (+/- 20.3681 %)
Velocity 2 = 2.9046 (ft/sec) (+/- 8.0136 %)
Pressure drop = -4.7615 (psi)
Tsat in = 267.9976 (deg F) Tsat out = 275.2569 (deg F)
Phi inner = 100.5690 (kBtu/hr-ft2) (+/- 1.5702 %)
Phi outer = 99.9338 (kBtu/hr-ft2) (+/- 1.5548 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.4130	79.0484	78.6841	1.7665e-01	1.9001e+00
1	TRF000002	78.9529	79.5851	79.1510	1.5592e-01	1.9001e+00
2	TFM000001	87.7263	88.5635	88.2180	1.9749e-01	1.9002e+00
3	TIN000001	87.3584	88.0934	87.7930	1.6012e-01	1.9002e+00
4	TRV000001	88.7820	89.6176	89.1980	2.2464e-01	1.9002e+00
5	TSR000001	155.6438	158.0183	156.6278	6.0699e-01	1.9050e+00
6	TAO020136	209.6746	210.3465	210.0145	1.7574e-01	1.9132e+00
7	TAO050136	232.4061	233.3470	232.8674	1.9671e-01	1.9178e+00
8	TAO070136	251.4203	252.4498	251.8599	2.2788e-01	1.9222e+00
9	TAO080136	261.6877	262.6113	262.1701	2.0443e-01	1.9247e+00
10	TAO090136	271.6522	272.5724	272.1874	2.2504e-01	1.9273e+00
11	TAO100136	278.0716	279.0815	278.5912	2.1988e-01	1.9291e+00
12	TAO105136	280.3200	281.7878	281.0855	3.4989e-01	1.9298e+00
13	EMPTY	40.9819	41.4403	41.2616	1.2499e-01	1.9011e+00
14	TAO115136	282.2567	283.5435	282.8763	3.0832e-01	1.9303e+00
15	EMPTY	33.1563	43.5000	40.7313	2.4458e+00	1.9011e+00
16	TAO125136	292.5040	294.2297	293.7119	2.9430e-01	1.9334e+00
17	TAO130136	282.0748	284.1544	283.1519	4.7633e-01	1.9304e+00
18	EMPTY	41.8984	42.8139	42.3837	2.0494e-01	1.9012e+00
19	TAO130048	291.6634	292.4819	292.0437	2.3707e-01	1.9329e+00
20	TAO120224	283.4544	285.2833	284.5208	4.2070e-01	1.9308e+00
21	EMPTY	39.3761	39.6057	39.5919	5.5076e-02	1.9011e+00
22	TAO120312	299.1638	300.0709	299.5868	2.3241e-01	1.9352e+00
23	TAO130312	291.2960	292.7503	291.9887	3.4538e-01	1.9329e+00
24	EMPTY	39.3761	39.8352	39.6194	1.6983e-01	1.9011e+00
25	TRT070000	229.8160	232.2885	231.3617	6.7086e-01	1.9175e+00
26	TRT100000	283.1252	283.9477	283.6128	1.9417e-01	1.9305e+00
27	TRT120000	292.8933	293.4398	293.1758	1.1533e-01	1.9333e+00
28	TRT125000	295.1821	295.9972	295.6335	1.6524e-01	1.9340e+00
29	EMPTY	39.8352	40.2940	40.1289	1.1391e-01	1.9011e+00
30	EMPTY	39.3761	40.2940	39.7985	2.0401e-01	1.9011e+00
31	TAF050136	156.9737	159.4469	157.9850	5.6237e-01	1.9052e+00
32	TAF070136	183.4787	186.6717	185.2110	7.3095e-01	1.9089e+00
33	TAF080136	198.0587	202.6446	199.7323	8.3156e-01	1.9113e+00
34	TAF090136	207.7047	210.4799	209.1464	5.8749e-01	1.9130e+00
35	TAF100136	219.6320	221.7263	220.6012	4.6182e-01	1.9152e+00
36	TAF105136	227.7522	231.6885	229.2912	7.2296e-01	1.9170e+00
37	TAF110136	235.3659	244.9024	239.6224	2.2202e+00	1.9193e+00
38	TAF115136	238.9078	242.7467	240.7046	7.4530e-01	1.9195e+00
39	TAF120136	244.5067	247.0210	245.7829	4.9956e-01	1.9207e+00
40	TAF125136	251.6697	254.9085	253.0890	6.9779e-01	1.9225e+00
41	TAF130136	257.9543	266.6530	262.4432	2.2661e+00	1.9248e+00
42	TAF120048	263.3348	265.5703	264.2047	4.3019e-01	1.9252e+00
43	TAF130048	272.3870	275.8842	274.7345	7.6949e-01	1.9280e+00
44	TAF120224	244.3646	246.7957	245.1671	5.3077e-01	1.9206e+00
45	TAF130224	262.7508	275.8315	269.5947	2.7164e+00	1.9267e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9882	1.9132e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8857	1.4872e-01	1.9011e+00
48	TAI130048	294.8464	296.2104	295.5901	3.1428e-01	1.9340e+00
49	EMPTY	37.7675	38.4572	38.1813	1.5405e-01	1.9010e+00
50	TAI130224	293.0034	296.1046	294.3593	6.8542e-01	1.9336e+00
51	EMPTY	40.9819	41.8984	41.5319	1.9083e-01	1.9012e+00
52	TRR130000	151.6254	153.8132	152.7062	4.7841e-01	1.9046e+00
53	TSI000001	51.9179	52.6729	52.2525	2.1037e-01	1.9002e+00
54	TSI000002	171.3650	172.5428	172.1128	2.8728e-01	1.9070e+00
55	TSO000001	49.6450	50.5125	50.0288	2.0353e-01	1.9003e+00
56	TSO000002	67.4945	68.3479	67.9147	2.3932e-01	1.9000e+00
57	TAF020136	89.6724	90.4086	90.0912	1.9627e-01	1.9003e+00
58	TAF120312	260.7909	263.2931	262.1090	5.5160e-01	1.9247e+00
59	TAF130312	272.0527	275.6380	274.5665	7.7287e-01	1.9280e+00
60	EMPTY	5.0195	5.0537	5.0389	8.4837e-03	0.0000e+00
61	EMPTY	5.0098	5.0293	5.0187	5.5533e-03	0.0000e+00
62	EMPTY	4.9951	5.0195	5.0005	4.6532e-03	0.0000e+00
63	EMPTY	4.9854	4.9951	4.9906	4.0482e-03	0.0000e+00
64	EMPTY	2.3242	2.3340	2.3265	2.6488e-03	0.0000e+00
65	EMPTY	2.3340	2.3389	2.3355	2.3008e-03	0.0000e+00
66	EMPTY	2.3389	2.3438	2.3403	2.2603e-03	0.0000e+00
67	EMPTY	2.3438	2.3535	2.3478	2.1364e-03	0.0000e+00
68	EMPTY	2.3486	2.3535	2.3496	1.9730e-03	0.0000e+00
69	EMPTY	2.3535	2.3584	2.3577	1.7115e-03	0.0000e+00
70	EMPTY	2.3584	2.3682	2.3628	2.0337e-03	0.0000e+00
71	EMPTY	2.3682	2.3779	2.3748	2.5648e-03	0.0000e+00
72	EMPTY	2.3779	2.3828	2.3781	9.6655e-04	0.0000e+00
73	EMPTY	2.3828	2.3877	2.3874	1.1714e-03	0.0000e+00
74	EMPTY	2.3877	2.3926	2.3925	6.9053e-04	0.0000e+00
75	EMPTY	2.3975	2.4023	2.3994	2.4164e-03	0.0000e+00
76	EMPTY	2.4023	2.4121	2.4028	1.7784e-03	0.0000e+00
77	EMPTY	2.4072	2.4170	2.4124	1.5314e-03	0.0000e+00
78	EMPTY	2.4219	2.4268	2.4251	2.3365e-03	0.0000e+00
79	EMPTY	2.4316	2.4414	2.4389	2.6543e-03	0.0000e+00
80	PAN020136	-17.5052	-16.5134	-17.0002	1.9972e-01	8.7104e-01
81	PAN050136	-33.5820	-32.0562	-32.9808	3.6788e-01	1.6820e+00
82	PAN070136	-19.9764	-18.4506	-19.1723	3.4952e-01	8.7132e-01
83	PAN080136	-11.8729	-9.5841	-10.4722	5.5097e-01	8.7039e-01
84	PAN090136	-13.3868	-11.0980	-12.5125	6.7279e-01	8.7056e-01
85	PAN100136	-13.2444	-13.0918	-13.1376	4.0781e-02	8.7062e-01
86	PAN105136	-7.6525	0.9688	-2.5133	1.9747e+00	8.7002e-01
87	PAN110136	-6.3694	2.0229	-4.3796	1.7064e+00	8.7007e-01
88	PAN115136	-5.8041	-0.6924	-3.7136	1.1553e+00	8.7005e-01
89	PAN120136	-5.4547	-2.1741	-3.7778	6.7654e-01	8.7005e-01
90	PAN125136	-7.1993	-3.0795	-5.1241	1.1420e+00	8.7009e-01
91	PAN130136	-0.7465	3.4497	0.9457	9.8740e-01	8.7000e-01
92	PAN120048	-11.8142	-6.9314	-10.1495	1.1195e+00	8.7037e-01
93	PAN130048	-4.9918	-1.9401	-3.2950	6.3282e-01	8.7004e-01
94	PAN120224	-9.2625	-4.4559	-7.1522	1.2727e+00	8.7018e-01
95	PAN130224	-5.0856	-3.2545	-4.2189	5.0130e-01	8.7006e-01
96	PAN120312	-10.6027	-5.8724	-8.6068	1.2494e+00	8.7027e-01
97	PAN130312	-4.3896	-2.4823	-3.3429	3.8101e-01	8.7004e-01
98	PAB000136	40.3023	40.5312	40.4240	5.8935e-02	5.8874e-01
99	PAB100136	44.5931	44.8678	44.7881	5.7614e-02	5.9071e-01
100	PAB125136	45.4352	45.7557	45.6046	6.1520e-02	5.9110e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9808	40.3470	40.2249	8.1794e-02	7.5671e-01
102	PRV000001	19.6054	19.7274	19.6078	1.7263e-02	7.5160e-01
103	PSR000001	44.7989	45.0431	44.8795	6.3406e-02	7.5835e-01
104	PFM000001	1.0790	1.3537	1.2456	7.7795e-02	5.0001e-01
105	PAN000136	-133.8577	-129.2800	-131.8252	9.7506e-01	4.9310e+00
106	PFM000002	1.2187	1.2694	1.2460	1.3606e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	0.0015	3.7239e-03	0.0000e+00
108	EMPTY	-5.9326	-3.9063	-4.2859	4.6284e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0001	1.2041e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	100.9812	101.5672	101.3172	1.4785e-01	1.0127e+00
113	VPW000002	118.9406	119.7219	119.1711	1.5124e-01	1.0804e+00
114	VPW000003	146.6397	147.0303	146.8584	1.1599e-01	1.1969e+00
115	VPW000004	104.8475	105.4334	105.1366	1.2627e-01	1.0267e+00
116	VPW000005	139.5284	140.1144	139.7940	1.7091e-01	1.1660e+00
117	VPW000006	147.4962	148.2775	147.8478	1.8508e-01	1.2013e+00
118	IPW000001	532.1901	538.0472	534.8063	1.4007e+00	9.1357e+00
119	IPW000002	1301.4967	1307.3506	1304.3068	1.4301e+00	1.3107e+01
120	IPW000003	1329.0544	1334.9044	1331.0433	1.6940e+00	1.3273e+01
121	IPW000004	377.5297	379.9711	378.6916	4.8216e-01	3.5986e+00
122	IPW000005	252.1279	253.5926	253.0654	3.9257e-01	2.8279e+00
123	IPW000006	262.6953	264.6484	263.6523	4.4072e-01	2.8876e+00
124	EMPTY	-0.0244	-0.0098	-0.0182	3.2777e-03	0.0000e+00
125	EMPTY	-0.0146	0.0000	-0.0111	2.9660e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0131	3.0309e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0151	3.9766e-03	0.0000e+00
128	IHT000001	129.0475	131.5866	130.1412	5.2199e-01	4.3016e+00
129	IHT000002	132.9584	135.3022	133.8491	4.6213e-01	4.3130e+00
130	IHT000003	133.1491	135.1022	133.8014	4.4400e-01	4.3128e+00
131	IHT000004	131.2853	133.6291	132.0626	4.9989e-01	4.3074e+00
132	IHT000005	130.0334	131.7912	130.5880	4.4706e-01	4.3029e+00
133	IHT000006	124.8072	126.5650	125.5571	4.4180e-01	4.2879e+00
134	IHT000007	131.7959	133.3584	132.5381	4.2864e-01	4.3089e+00
135	IHT000008	130.4288	131.9913	131.1787	4.3110e-01	4.3047e+00
136	IHT000009	130.7394	132.4972	131.5401	4.5720e-01	4.3058e+00
137	IHT000010	132.5372	134.6856	133.3926	5.3799e-01	4.3115e+00
138	IHT000011	130.8594	132.8125	131.7734	5.2858e-01	4.3066e+00
139	IHT000012	128.6734	130.6266	129.4781	5.0477e-01	4.2996e+00
140	IHT000013	91.9781	94.1266	92.8531	4.5718e-01	4.2038e+00
141	IHT000014	127.6144	129.7628	128.5088	4.8823e-01	4.2967e+00
142	IHT000015	94.7219	96.8703	95.4758	4.3407e-01	4.2097e+00
143	IHT000016	88.2412	90.1944	88.9014	4.0219e-01	4.1953e+00
144	IHT000017	106.0547	108.2031	107.0117	4.7719e-01	4.2374e+00
145	IHT000018	-0.8166	1.5272	0.0272	3.9938e-01	4.1000e+00
146	IHT000019	107.3419	108.9044	108.2871	4.2565e-01	4.2406e+00
147	IHT000020	105.9512	107.9044	106.7950	4.9981e-01	4.2368e+00
148	IHT000021	0.3244	1.8869	1.1681	4.5582e-01	4.1000e+00
149	IHT000022	91.5216	93.4747	92.4903	4.8159e-01	4.2030e+00
150	IHT000023	105.3534	107.3066	106.2519	4.7842e-01	4.2354e+00
151	IHT000024	66.5209	68.2787	67.3803	4.4468e-01	4.1550e+00
152	IHT000025	103.3509	105.1087	104.1126	4.4686e-01	4.2301e+00
153	IHT000026	105.3134	107.2666	106.2393	5.0038e-01	4.2354e+00
154	IHT000027	89.1425	91.0956	90.0293	5.2231e-01	4.1977e+00
155	IHT000028	89.7991	91.9475	90.7678	5.4098e-01	4.1993e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0547	108.3984	107.1406	5.4413e-01	4.2377e+00
157	IHT000030	108.5137	110.8575	109.5762	5.2963e-01	4.2439e+00
158	IHT000031	106.3253	108.6691	107.3721	5.0649e-01	4.2383e+00
159	IHT000032	107.6972	109.8456	108.6894	5.3647e-01	4.2416e+00
160	IHT000033	-1.1966	0.7566	-0.3059	4.3791e-01	4.1000e+00
161	IHT000034	94.2959	96.0537	95.0615	4.4963e-01	4.2088e+00
162	IHT000035	124.0706	125.8284	124.8832	4.4180e-01	4.2860e+00
163	IHT000036	92.9688	94.5313	93.6680	3.9279e-01	4.2056e+00

Velocity 1 = 2.8974 (ft/sec) (+/- 20.4629 %)
Velocity 2 = 2.9009 (ft/sec) (+/- 8.0305 %)
Pressure drop = -4.7580 (psi)
Tsats in = 268.1033 (deg F) Tsats out = 275.3138 (deg F)
Phi inner = 100.4636 (kBtu/hr-ft2) (+/- 1.5705 %)
Phi outer = 99.8813 (kBtu/hr-ft2) (+/- 1.5550 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	78.2011	79.0484	78.6637	1.9659e-01	1.9001e+00
1	TRF0000002	78.9529	79.3744	79.1464	1.3493e-01	1.9001e+00
2	TFM0000001	87.6211	88.5635	88.1064	2.0692e-01	1.9002e+00
3	TIN0000001	87.3584	88.0934	87.7419	1.5827e-01	1.9002e+00
4	TRV0000001	88.6774	89.5141	89.2128	1.6609e-01	1.9002e+00
5	TSR0000001	156.1392	158.1190	157.1891	3.8217e-01	1.9051e+00
6	TAO020136	209.4829	210.2509	209.9607	1.8735e-01	1.9132e+00
7	TAO050136	232.6870	233.6277	233.0146	2.0865e-01	1.9178e+00
8	TAO070136	251.5134	252.4490	251.9148	2.4084e-01	1.9222e+00
9	TAO080136	261.5948	262.7029	262.2436	2.3350e-01	1.9247e+00
10	TAO090136	271.6522	272.7558	272.3296	2.2826e-01	1.9274e+00
11	TAO100136	277.8878	279.1732	278.6373	2.9984e-01	1.9291e+00
12	TAO105136	280.3203	281.8793	281.2825	3.0934e-01	1.9298e+00
13	EMPTY	40.9819	41.6693	41.2813	1.3397e-01	1.9011e+00
14	TAO115136	282.3487	283.7268	283.0165	3.3948e-01	1.9303e+00
15	EMPTY	32.0000	43.5000	40.2892	3.0565e+00	1.9011e+00
16	TAO125136	293.2300	294.5017	293.9531	2.5894e-01	1.9335e+00
17	TAO130136	282.3468	284.0655	283.3320	4.2502e-01	1.9304e+00
18	EMPTY	41.8984	42.5851	42.3936	1.7069e-01	1.9012e+00
19	TAO130048	291.8450	292.6635	292.2940	2.1440e-01	1.9330e+00
20	TAO120224	284.0943	285.5575	284.9119	3.4589e-01	1.9309e+00
21	EMPTY	39.3761	39.8352	39.5776	8.9315e-02	1.9011e+00
22	TAO120312	299.1634	300.2532	299.6714	2.7790e-01	1.9352e+00
23	TAO130312	291.2046	292.5693	291.8080	2.7999e-01	1.9329e+00
24	EMPTY	39.1464	39.8352	39.6103	1.9028e-01	1.9011e+00
25	TRT070000	230.7663	232.4786	231.7019	4.1360e-01	1.9175e+00
26	TRT100000	283.2166	284.0377	283.6134	1.7149e-01	1.9305e+00
27	TRT120000	292.8930	293.6216	293.2464	1.6693e-01	1.9333e+00
28	TRT125000	295.0909	296.0880	295.6609	1.8397e-01	1.9340e+00
29	EMPTY	40.0646	40.2940	40.1349	1.0683e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7883	2.1964e-01	1.9011e+00
31	TAF050136	156.5779	158.8528	157.9350	4.8833e-01	1.9052e+00
32	TAF070136	183.8654	186.0920	185.1852	5.3318e-01	1.9089e+00
33	TAF080136	198.4409	200.8322	199.6533	5.3629e-01	1.9113e+00
34	TAF090136	207.8959	210.2888	209.1367	6.3869e-01	1.9130e+00
35	TAF100136	219.7269	222.0115	220.7958	4.8852e-01	1.9153e+00
36	TAF105136	228.0325	231.5012	229.4585	5.9812e-01	1.9171e+00
37	TAF110136	235.7409	245.1817	239.9263	2.4641e+00	1.9194e+00
38	TAF115136	239.8455	242.3727	240.7966	5.0863e-01	1.9196e+00
39	TAF120136	244.6946	246.8350	245.7878	5.4321e-01	1.9207e+00
40	TAF125136	251.9466	255.2782	253.1386	7.1646e-01	1.9225e+00
41	TAF130136	258.9745	266.9295	262.5917	1.9001e+00	1.9248e+00
42	TAF120048	263.5208	265.2924	264.2967	4.3810e-01	1.9253e+00
43	TAF130048	273.2157	275.8843	274.8819	6.7373e-01	1.9281e+00
44	TAF120224	243.9899	246.4219	245.3418	5.4400e-01	1.9206e+00
45	TAF130224	264.1466	273.8904	269.3313	2.3861e+00	1.9266e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9505	2.0449e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.8539	1.4692e-01	1.9011e+00
48	TAI130048	295.0277	296.2096	295.6962	2.6414e-01	1.9340e+00
49	EMPTY	37.7675	38.6870	38.1710	1.8493e-01	1.9010e+00
50	TAI130224	293.0034	295.5580	294.2455	5.5929e-01	1.9336e+00
51	EMPTY	41.2111	41.8984	41.5197	1.7213e-01	1.9012e+00
52	TRR130000	151.4257	153.6151	152.6166	5.0765e-01	1.9046e+00
53	TSI000001	51.9173	52.6729	52.2702	1.8656e-01	1.9002e+00
54	TSI000002	170.8737	172.6414	171.9378	3.5071e-01	1.9070e+00
55	TSO000001	49.5355	50.5125	49.9657	2.1128e-01	1.9003e+00
56	TSO000002	67.2812	68.4542	67.7970	2.6151e-01	1.9000e+00
57	TAF020136	89.6728	90.7236	90.1063	2.1940e-01	1.9003e+00
58	TAF120312	261.0686	264.4961	262.2341	6.4705e-01	1.9247e+00
59	TAF130312	273.3404	275.5465	274.6272	5.6053e-01	1.9280e+00
60	EMPTY	5.0293	5.0537	5.0418	4.9896e-03	0.0000e+00
61	EMPTY	5.0146	5.0293	5.0226	3.4083e-03	0.0000e+00
62	EMPTY	5.0000	5.0098	5.0036	2.3953e-03	0.0000e+00
63	EMPTY	4.9902	4.9951	4.9946	1.4934e-03	0.0000e+00
64	EMPTY	2.3242	2.3291	2.3284	1.7263e-03	0.0000e+00
65	EMPTY	2.3340	2.3438	2.3381	2.0781e-03	0.0000e+00
66	EMPTY	2.3389	2.3438	2.3434	1.3508e-03	0.0000e+00
67	EMPTY	2.3486	2.3486	2.3486	0.0000e+00	0.0000e+00
68	EMPTY	2.3486	2.3584	2.3526	2.1547e-03	0.0000e+00
69	EMPTY	2.3584	2.3633	2.3585	6.9754e-04	0.0000e+00
70	EMPTY	2.3633	2.3682	2.3636	1.1827e-03	0.0000e+00
71	EMPTY	2.3730	2.3779	2.3777	9.7615e-04	0.0000e+00
72	EMPTY	2.3779	2.3828	2.3802	2.4621e-03	0.0000e+00
73	EMPTY	2.3828	2.3926	2.3878	1.2165e-03	0.0000e+00
74	EMPTY	2.3877	2.3975	2.3931	1.7954e-03	0.0000e+00
75	EMPTY	2.3975	2.4072	2.4019	1.6787e-03	0.0000e+00
76	EMPTY	2.3975	2.4072	2.4045	2.6485e-03	0.0000e+00
77	EMPTY	2.4072	2.4170	2.4136	2.4826e-03	0.0000e+00
78	EMPTY	2.4268	2.4268	2.4268	0.0000e+00	0.0000e+00
79	EMPTY	2.4365	2.4414	2.4412	9.7615e-04	0.0000e+00
80	PAN020136	-17.4290	-16.6660	-16.9883	1.7843e-01	8.7104e-01
81	PAN050136	-33.7346	-32.3613	-32.9219	3.0420e-01	1.6820e+00
82	PAN070136	-20.1290	-18.6794	-19.3567	3.4390e-01	8.7134e-01
83	PAN080136	-11.4915	-9.3552	-10.4327	5.2666e-01	8.7039e-01
84	PAN090136	-13.3868	-11.0217	-12.7485	5.6532e-01	8.7058e-01
85	PAN100136	-13.2444	-13.0155	-13.1354	4.4048e-02	8.7062e-01
86	PAN105136	-7.2710	0.9688	-1.6050	1.9976e+00	8.7001e-01
87	PAN110136	-6.3694	-0.6473	-4.8077	1.5670e+00	8.7008e-01
88	PAN115136	-6.2618	0.8335	-3.6243	1.6530e+00	8.7005e-01
89	PAN120136	-5.7599	-1.7163	-3.7669	8.7525e-01	8.7005e-01
90	PAN125136	-6.8942	-2.6980	-4.9059	1.0417e+00	8.7009e-01
91	PAN130136	-0.8228	3.2208	0.5038	1.0362e+00	8.7000e-01
92	PAN120048	-11.4327	-6.3210	-9.6686	1.1857e+00	8.7034e-01
93	PAN130048	-4.9155	-1.9401	-3.1545	6.7089e-01	8.7004e-01
94	PAN120224	-8.4995	-4.3033	-7.1371	9.2855e-01	8.7018e-01
95	PAN130224	-5.0856	-2.4916	-4.3475	5.4069e-01	8.7007e-01
96	PAN120312	-11.2130	-2.5918	-8.2718	1.8427e+00	8.7025e-01
97	PAN130312	-4.1608	-2.3297	-3.3293	4.7981e-01	8.7004e-01
98	PAB000136	40.3938	40.6685	40.4957	7.3138e-02	5.8877e-01
99	PAB100136	44.6847	45.0051	44.8687	7.3272e-02	5.9075e-01
100	PAB125136	45.5268	45.8015	45.6473	6.0335e-02	5.9112e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1028	40.4690	40.3071	1.0390e-01	7.5674e-01
102	PRV000001	19.6054	19.6054	19.6054	5.7813e-06	7.5160e-01
103	PSR000001	44.7989	45.0431	44.9185	3.0414e-02	7.5836e-01
104	PFM000001	1.1706	1.3537	1.2397	6.0645e-02	5.0001e-01
105	PAN000136	-135.6087	-128.8223	-131.7277	1.4126e+00	4.9310e+00
106	PFM000002	1.2187	1.2694	1.2428	1.0905e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	0.0011	3.4906e-03	0.0000e+00
108	EMPTY	-5.5371	-3.9111	-4.2779	4.5639e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0002	1.3951e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9754e-04	0.0000e+00
112	VPW000001	100.9812	101.5672	101.3400	1.7077e-01	1.0128e+00
113	VPW000002	118.7453	119.3313	119.1399	1.5691e-01	1.0803e+00
114	VPW000003	146.4444	147.2256	146.7871	1.7619e-01	1.1966e+00
115	VPW000004	104.6522	106.0194	105.1903	2.3086e-01	1.0269e+00
116	VPW000005	139.1378	140.1144	139.7237	2.2902e-01	1.1657e+00
117	VPW000006	147.3009	148.2775	147.7792	2.1859e-01	1.2010e+00
118	IPW000001	532.1901	538.0472	534.5409	1.4358e+00	9.1347e+00
119	IPW000002	1299.5455	1307.3506	1303.4479	1.9102e+00	1.3101e+01
120	IPW000003	1327.1045	1332.9545	1330.2084	1.8205e+00	1.3268e+01
121	IPW000004	377.5297	379.9711	378.8648	6.8167e-01	3.5998e+00
122	IPW000005	252.1279	253.5926	252.9749	4.4318e-01	2.8274e+00
123	IPW000006	262.2070	264.6484	263.5822	5.1476e-01	2.8872e+00
124	EMPTY	-0.0244	-0.0098	-0.0181	3.5937e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0112	2.6370e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0130	3.3875e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0151	3.1902e-03	0.0000e+00
128	IHT000001	128.8522	131.7819	130.1117	6.2792e-01	4.3015e+00
129	IHT000002	132.5678	135.1069	133.8195	5.9924e-01	4.3129e+00
130	IHT000003	132.3678	135.1022	133.7748	6.0329e-01	4.3127e+00
131	IHT000004	130.5041	133.2384	132.0386	6.2148e-01	4.3074e+00
132	IHT000005	129.2522	131.7912	130.5834	6.4245e-01	4.3029e+00
133	IHT000006	124.2213	126.7603	125.5087	6.0845e-01	4.2878e+00
134	IHT000007	131.0147	133.7491	132.4337	6.2882e-01	4.3086e+00
135	IHT000008	129.6475	132.5772	131.0824	6.2601e-01	4.3044e+00
136	IHT000009	130.3488	133.2784	131.4568	6.2070e-01	4.3056e+00
137	IHT000010	131.9512	134.8809	133.3622	5.6840e-01	4.3114e+00
138	IHT000011	130.4688	133.0078	131.8160	5.4408e-01	4.3067e+00
139	IHT000012	128.0875	130.6266	129.5463	5.5257e-01	4.2998e+00
140	IHT000013	91.7828	94.3219	92.9865	5.6007e-01	4.2041e+00
141	IHT000014	127.4191	129.9581	128.5390	5.1794e-01	4.2968e+00
142	IHT000015	94.3313	96.6750	95.5789	4.7977e-01	4.2099e+00
143	IHT000016	87.8506	89.9991	89.0464	4.5392e-01	4.1956e+00
144	IHT000017	106.0547	108.2031	107.1229	4.8518e-01	4.2376e+00
145	IHT000018	-0.6212	1.5272	0.1480	4.2457e-01	4.1000e+00
146	IHT000019	107.5372	109.4903	108.2985	4.3353e-01	4.2406e+00
147	IHT000020	105.9512	108.0997	106.8680	4.7709e-01	4.2370e+00
148	IHT000021	0.5197	2.4728	1.2372	4.4821e-01	4.1000e+00
149	IHT000022	91.7169	93.8653	92.6137	5.0574e-01	4.2033e+00
150	IHT000023	105.3534	107.3066	106.2822	4.3588e-01	4.2355e+00
151	IHT000024	66.5209	68.2787	67.4417	4.2567e-01	4.1551e+00
152	IHT000025	103.3509	105.1087	104.1680	4.2506e-01	4.2303e+00
153	IHT000026	105.7041	107.4619	106.3259	4.4337e-01	4.2356e+00
154	IHT000027	89.5331	91.0956	90.1749	4.6322e-01	4.1980e+00
155	IHT000028	89.7991	91.9475	90.6760	4.9815e-01	4.1991e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0547	108.3984	106.9515	5.0731e-01	4.2372e+00
157	IHT000030	108.5137	110.6622	109.3548	5.1552e-01	4.2433e+00
158	IHT000031	106.1300	108.4737	107.1264	5.1559e-01	4.2376e+00
159	IHT000032	107.3066	109.4550	108.2832	4.3673e-01	4.2406e+00
160	IHT000033	-1.3919	0.3659	-0.5229	4.0474e-01	4.1000e+00
161	IHT000034	93.9053	95.8584	94.8619	4.4972e-01	4.2083e+00
162	IHT000035	123.4847	125.8284	124.6207	5.0378e-01	4.2852e+00
163	IHT000036	92.5781	94.5313	93.4790	4.0228e-01	4.2052e+00

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Velocity 1 = 0.006700 (ft/sec)

Velocity 2 = 0.003700 (ft/sec)

Pressure Drop = 0.003500 (psi)

Tsat in = 0.105713 (deg F) Tsat out = 0.056915 (deg F)

Phi inner = 0.105400 (kBtu/hr-ft2) Phi outer = 0.052498 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0204	0.0259
1	TRF000002	0.0046	0.0058
2	TFM000001	0.1116	0.1265
3	TIN000001	0.0511	0.0582
4	TRV000001	0.0148	0.0166
5	TSR000001	0.5613	0.3584
6	TAO020136	0.0538	0.0256
7	TAO050136	0.1472	0.0632
8	TAO070136	0.0549	0.0218
9	TAO080136	0.0735	0.0280
10	TAO090136	0.1422	0.0522
11	TAO100136	0.0461	0.0166
12	TAO105136	0.1970	0.0701
13	EMPTY	0.0197	0.0477
14	TAO115136	0.1402	0.0496
15	EMPTY	0.4421	1.0854
16	TAO125136	0.2412	0.0821
17	TAO130136	0.1801	0.0636
18	EMPTY	0.0099	0.0234
19	TAO130048	0.2503	0.0857
20	TAO120224	0.3911	0.1375
21	EMPTY	0.0143	0.0361
22	TAO120312	0.0846	0.0282
23	TAO130312	0.1807	0.0619
24	EMPTY	0.0091	0.0230
25	TRT070000	0.3402	0.1470
26	TRT100000	0.0006	0.0002
27	TRT120000	0.0706	0.0241
28	TRT125000	0.0274	0.0093
29	EMPTY	0.0060	0.0150
30	EMPTY	0.0102	0.0256
31	TAF050136	0.0500	0.0317
32	TAF070136	0.0258	0.0139
33	TAF080136	0.0790	0.0396
34	TAF090136	0.0097	0.0046
35	TAF100136	0.1946	0.0882
36	TAF105136	0.1673	0.0730
37	TAF110136	0.3039	0.1268
38	TAF115136	0.0920	0.0382
39	TAF120136	0.0049	0.0020
40	TAF125136	0.0496	0.0196
41	TAF130136	0.1485	0.0566
42	TAF120048	0.0920	0.0348
43	TAF130048	0.1474	0.0537
44	TAF120224	0.1747	0.0713
45	TAF130224	0.2634	0.0977

#	Name	Abs Diff	%Diff
46	EMPTY	0.0377	0.0992
47	EMPTY	0.0318	0.0797
48	TAI130048	0.1061	0.0359
49	EMPTY	0.0103	0.0270
50	TAI130224	0.1138	0.0387
51	EMPTY	0.0122	0.0294
52	TRR130000	0.0896	0.0587
53	TSI000001	0.0177	0.0339
54	TSI000002	0.1750	0.1017
55	TSO000001	0.0631	0.1261
56	TSO000002	0.1177	0.1733
57	TAF020136	0.0151	0.0168
58	TAF120312	0.1251	0.0477
59	TAF130312	0.0607	0.0221
60	EMPTY	0.0029	0.0576
61	EMPTY	0.0039	0.0777
62	EMPTY	0.0031	0.0620
63	EMPTY	0.0040	0.0801
64	EMPTY	0.0019	0.0817
65	EMPTY	0.0026	0.1113
66	EMPTY	0.0031	0.1325
67	EMPTY	0.0008	0.0341
68	EMPTY	0.0030	0.1277
69	EMPTY	0.0008	0.0339
70	EMPTY	0.0008	0.0339
71	EMPTY	0.0029	0.1221
72	EMPTY	0.0021	0.0883
73	EMPTY	0.0004	0.0168
74	EMPTY	0.0006	0.0251
75	EMPTY	0.0025	0.1042
76	EMPTY	0.0017	0.0707
77	EMPTY	0.0012	0.0497
78	EMPTY	0.0017	0.0701
79	EMPTY	0.0023	0.0943
80	PAN020136	0.0119	0.0700
81	PAN050136	0.0589	0.1786
82	PAN070136	0.1844	0.9618
83	PAN080136	0.0395	0.3772
84	PAN090136	0.2360	1.8861
85	PAN100136	0.0022	0.0167
86	PAN105136	0.9083	36.1397
87	PAN110136	0.4281	9.7749
88	PAN115136	0.0893	2.4047
89	PAN120136	0.0109	0.2885
90	PAN125136	0.2182	4.2583
91	PAN130136	0.4419	46.7273
92	PAN120048	0.4809	4.7382
93	PAN130048	0.1405	4.2640
94	PAN120224	0.0151	0.2111
95	PAN130224	0.1286	3.0482
96	PAN120312	0.3350	3.8923
97	PAN130312	0.0136	0.4068
98	PAB000136	0.0717	0.1774
99	PAB100136	0.0806	0.1800
100	PAB125136	0.0427	0.0936

#	Name	Abs Diff	%Diff
101	PIN000001	0.0822	0.2043
102	PRV000001	0.0024	0.0122
103	PSR000001	0.0390	0.0869
104	PFM000001	0.0059	0.4737
105	PAN000136	0.0975	0.0740
106	PFM000002	0.0032	0.2568
107	EMPTY	0.0004	26.6667
108	EMPTY	0.0080	0.1867
109	EMPTY	0.0001	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0228	0.0225
113	VPW000002	0.0312	0.0262
114	VPW000003	0.0713	0.0486
115	VPW000004	0.0537	0.0511
116	VPW000005	0.0703	0.0503
117	VPW000006	0.0686	0.0464
118	IPW000001	0.2654	0.0496
119	IPW000002	0.8589	0.0659
120	IPW000003	0.8350	0.0627
121	IPW000004	0.1732	0.0457
122	IPW000005	0.0905	0.0358
123	IPW000006	0.0701	0.0266
124	EMPTY	0.0001	0.5494
125	EMPTY	0.0001	0.9009
126	EMPTY	0.0001	0.7634
127	EMPTY	0.0000	0.0000
128	IHT000001	0.0295	0.0227
129	IHT000002	0.0296	0.0221
130	IHT000003	0.0266	0.0199
131	IHT000004	0.0240	0.0182
132	IHT000005	0.0046	0.0035
133	IHT000006	0.0484	0.0385
134	IHT000007	0.1044	0.0788
135	IHT000008	0.0963	0.0734
136	IHT000009	0.0833	0.0633
137	IHT000010	0.0304	0.0228
138	IHT000011	0.0426	0.0323
139	IHT000012	0.0682	0.0527
140	IHT000013	0.1334	0.1437
141	IHT000014	0.0302	0.0235
142	IHT000015	0.1031	0.1080
143	IHT000016	0.1450	0.1631
144	IHT000017	0.1112	0.1039
145	IHT000018	0.1208	444.1176
146	IHT000019	0.0114	0.0105
147	IHT000020	0.0730	0.0684
148	IHT000021	0.0691	5.9156
149	IHT000022	0.1234	0.1334
150	IHT000023	0.0303	0.0285
151	IHT000024	0.0614	0.0911
152	IHT000025	0.0554	0.0532
153	IHT000026	0.0866	0.0815
154	IHT000027	0.1456	0.1617
155	IHT000028	0.0918	0.1011

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1891	0.1765
157	IHT000030	0.2214	0.2021
158	IHT000031	0.2457	0.2288
159	IHT000032	0.4062	0.3737
160	IHT000033	0.2170	70.9382
161	IHT000034	0.1996	0.2100
162	IHT000035	0.2625	0.2102
163	IHT000036	0.1890	0.2018

Velocity 1 = 6.8136 (ft/sec) (+/- 4.9400 %)
Velocity 2 = 6.8543 (ft/sec) (+/- 3.6893 %)
Pressure drop = -3.5026 (psi)
Tsat in = 268.1826 (deg F) Tsat out = 273.5102 (deg F)
Phi inner = 100.9219 (kBtu/hr-ft2) (+/- 1.5692 %)
Phi outer = 100.0321 (kBtu/hr-ft2) (+/- 1.5543 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.8366	79.4718	79.1203	1.7433e-01	1.9001e+00
1	TRF000002	79.3744	80.0064	79.6735	1.4174e-01	1.9001e+00
2	TFM000001	86.1565	87.1006	86.6307	2.3214e-01	1.9002e+00
3	TIN000001	85.8860	86.7269	86.3738	1.8598e-01	1.9002e+00
4	TRV000001	87.2192	88.3692	87.8794	2.7068e-01	1.9002e+00
5	TSR000001	148.4974	149.3948	148.9516	2.1972e-01	1.9042e+00
6	TAO020136	178.2384	179.2190	178.5995	1.9951e-01	1.9079e+00
7	TAO050136	161.4646	162.1573	161.8090	1.8099e-01	1.9057e+00
8	TAO070136	169.3700	170.3578	169.8838	2.0732e-01	1.9067e+00
9	TAO080136	175.7551	176.4405	176.0336	1.8876e-01	1.9076e+00
10	TAO090136	179.7163	180.4006	180.0409	1.8866e-01	1.9081e+00
11	TAO100136	184.1541	185.0311	184.5128	1.7655e-01	1.9088e+00
12	TAO105136	184.6808	185.5579	185.1408	1.9884e-01	1.9089e+00
13	EMPTY	41.2111	41.6693	41.3440	1.2326e-01	1.9012e+00
14	TAO115136	186.8742	187.7519	187.2956	1.8938e-01	1.9092e+00
15	EMPTY	31.7686	42.5851	38.2967	2.8557e+00	1.9010e+00
16	TAO125136	194.4485	195.1256	194.8006	1.5346e-01	1.9105e+00
17	TAO130136	181.9629	182.4514	182.2055	1.4049e-01	1.9085e+00
18	EMPTY	41.6693	42.1273	41.9533	1.5729e-01	1.9012e+00
19	TAO130048	192.6433	193.5141	192.9802	1.6846e-01	1.9102e+00
20	TAO120224	188.0095	188.6901	188.3906	1.7207e-01	1.9094e+00
21	EMPTY	39.1464	39.3761	39.2613	1.1598e-01	1.9010e+00
22	TAO120312	201.5682	202.3387	201.8457	1.8629e-01	1.9117e+00
23	TAO130312	194.5124	195.0918	194.8329	1.4792e-01	1.9105e+00
24	EMPTY	39.1464	39.8352	39.4404	1.9702e-01	1.9010e+00
25	TRT070000	162.7623	163.9561	163.3542	2.6589e-01	1.9059e+00
26	TRT100000	185.4719	186.3472	185.9620	1.6890e-01	1.9090e+00
27	TRT120000	199.8040	200.8627	200.2084	2.1402e-01	1.9114e+00
28	TRT125000	202.1994	202.8722	202.5378	1.6117e-01	1.9118e+00
29	EMPTY	39.8352	40.2940	40.0050	1.1174e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7250	1.8686e-01	1.9011e+00
31	TAF050136	114.9602	116.0846	115.4183	2.6477e-01	1.9014e+00
32	TAF070136	125.9604	127.1748	126.4583	2.4423e-01	1.9021e+00
33	TAF080136	130.8387	131.9483	131.3596	2.4359e-01	1.9025e+00
34	TAF090136	134.2103	135.4218	134.8890	2.9554e-01	1.9028e+00
35	TAF100136	139.1499	140.2584	139.7988	2.2867e-01	1.9033e+00
36	TAF105136	141.8779	142.9764	142.4842	2.4621e-01	1.9035e+00
37	TAF110136	144.3208	145.2220	144.7255	1.8846e-01	1.9038e+00
38	TAF115136	147.4227	148.5220	148.0303	2.1432e-01	1.9041e+00
39	TAF120136	150.0963	150.7934	150.4940	1.8541e-01	1.9044e+00
40	TAF125136	152.8936	153.6887	153.2361	1.9554e-01	1.9047e+00
41	TAF130136	155.3755	156.2706	155.8290	2.0592e-01	1.9050e+00
42	TAF120048	160.0376	161.4347	160.6576	3.4977e-01	1.9055e+00
43	TAF130048	163.8723	164.6636	164.2326	1.9344e-01	1.9060e+00
44	TAF120224	151.1855	152.2818	151.7476	2.5372e-01	1.9045e+00
45	TAF130224	155.6000	156.5982	156.0953	2.1046e-01	1.9050e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9974	2.2279e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3990	1.4851e-01	1.9010e+00
48	TAI130048	199.3690	200.8150	200.2250	3.3591e-01	1.9114e+00
49	EMPTY	37.9974	38.6870	38.3055	1.5824e-01	1.9010e+00
50	TAI130224	193.2442	194.4085	193.7954	2.6839e-01	1.9103e+00
51	EMPTY	39.8352	40.5234	40.1564	1.6711e-01	1.9011e+00
52	TRR130000	117.0510	119.8068	118.6389	7.0476e-01	1.9016e+00
53	TSI000001	50.6257	51.4898	51.0707	1.9464e-01	1.9002e+00
54	TSI000002	107.1402	108.2744	107.7093	2.3669e-01	1.9010e+00
55	TSO000001	49.4244	50.0762	49.7241	1.7884e-01	1.9003e+00
56	TSO000002	58.7174	59.6840	59.2156	1.9258e-01	1.9001e+00
57	TAF020136	87.8778	88.6133	88.2431	1.8312e-01	1.9002e+00
58	TAF120312	159.0774	160.7632	159.7716	3.0911e-01	1.9054e+00
59	TAF130312	164.7399	165.4313	165.1228	1.8240e-01	1.9061e+00
60	EMPTY	2.2363	2.2461	2.2404	2.8523e-03	0.0000e+00
61	EMPTY	2.2363	2.2461	2.2418	2.1249e-03	0.0000e+00
62	EMPTY	2.2412	2.2461	2.2431	2.3941e-03	0.0000e+00
63	EMPTY	2.2461	2.2510	2.2495	2.2603e-03	0.0000e+00
64	EMPTY	1.1133	1.1230	1.1182	9.8648e-04	0.0000e+00
65	EMPTY	1.1328	1.1377	1.1350	2.4484e-03	0.0000e+00
66	EMPTY	1.1475	1.1523	1.1476	6.9053e-04	0.0000e+00
67	EMPTY	1.1572	1.1621	1.1620	6.9053e-04	0.0000e+00
68	EMPTY	1.1719	1.1768	1.1720	6.9053e-04	0.0000e+00
69	EMPTY	1.1816	1.1865	1.1863	9.6655e-04	0.0000e+00
70	EMPTY	1.1963	1.2012	1.1965	9.6655e-04	0.0000e+00
71	EMPTY	1.2109	1.2158	1.2157	6.9053e-04	0.0000e+00
72	EMPTY	1.2207	1.2256	1.2255	6.9053e-04	0.0000e+00
73	EMPTY	1.2402	1.2500	1.2409	1.9754e-03	0.0000e+00
74	EMPTY	1.2500	1.2549	1.2530	2.3941e-03	0.0000e+00
75	EMPTY	1.2646	1.2695	1.2649	1.1714e-03	0.0000e+00
76	EMPTY	1.2744	1.2793	1.2756	2.1065e-03	0.0000e+00
77	EMPTY	1.2891	1.2939	1.2936	1.3381e-03	0.0000e+00
78	EMPTY	1.3086	1.3135	1.3111	2.4642e-03	0.0000e+00
79	EMPTY	1.3281	1.3330	1.3320	1.9730e-03	0.0000e+00
80	PAN020136	-12.6224	-11.2491	-12.0701	2.8024e-01	8.7052e-01
81	PAN050136	-24.1216	-22.9009	-23.5875	2.7443e-01	1.6810e+00
82	PAN070136	-15.1699	-14.1781	-14.7137	1.9769e-01	8.7078e-01
83	PAN080136	-8.2108	-7.7531	-7.9957	1.1188e-01	8.7023e-01
84	PAN090136	-7.9700	-7.5122	-7.8021	8.9877e-02	8.7022e-01
85	PAN100136	-7.9801	-7.6749	-7.8184	9.2019e-02	8.7022e-01
86	PAN105136	-3.8378	-3.4563	-3.6943	7.4943e-02	8.7005e-01
87	PAN110136	-4.0806	-3.8517	-3.9417	7.8125e-02	8.7006e-01
88	PAN115136	-3.5916	-3.2864	-3.4130	8.5278e-02	8.7004e-01
89	PAN120136	-4.0814	-3.7000	-3.9182	8.8558e-02	8.7006e-01
90	PAN125136	-3.8424	-3.5372	-3.6913	7.1454e-02	8.7005e-01
91	PAN130136	-4.1034	-3.7219	-3.9340	9.0259e-02	8.7006e-01
92	PAN120048	-8.6099	-7.9995	-8.2818	1.1663e-01	8.7025e-01
93	PAN130048	-7.8910	-7.5095	-7.7445	1.0990e-01	8.7022e-01
94	PAN120224	-7.5077	-7.2025	-7.3429	8.3519e-02	8.7019e-01
95	PAN130224	-7.9847	-7.5270	-7.7955	1.1559e-01	8.7022e-01
96	PAN120312	-7.7798	-7.2457	-7.5417	1.1183e-01	8.7020e-01
97	PAN130312	-8.1281	-7.5940	-7.9373	1.1865e-01	8.7023e-01
98	PAB000136	40.3481	40.8058	40.5495	9.8310e-02	5.8879e-01
99	PAB100136	43.4487	43.6776	43.5531	3.9280e-02	5.9013e-01
100	PAB125136	44.2451	44.3366	44.3101	3.0798e-02	5.9048e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9808	40.8353	40.3347	1.7996e-01	7.5675e-01
102	PRV000001	19.6054	19.7274	19.7079	4.5206e-02	7.5162e-01
103	PSR000001	43.9444	44.0665	44.0323	5.5366e-02	7.5804e-01
104	PFM000001	6.9384	7.3046	7.1123	9.1084e-02	5.0032e-01
105	PAN000136	-101.3564	-93.1167	-96.9711	1.8705e+00	4.9260e+00
106	PFM000002	7.0811	7.3176	7.1987	4.9221e-02	2.0081e-01
107	EMPTY	-0.0049	0.0049	0.0024	3.4527e-03	0.0000e+00
108	EMPTY	-5.7373	-3.8721	-4.2071	3.9989e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0014	2.4244e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	100.7859	101.1766	100.9930	1.3329e-01	1.0116e+00
113	VPW000002	118.3547	118.9406	118.6945	1.1712e-01	1.0786e+00
114	VPW000003	146.2491	146.8350	146.5147	1.3532e-01	1.1954e+00
115	VPW000004	104.6522	105.0428	104.8553	1.2453e-01	1.0256e+00
116	VPW000005	139.1378	139.7238	139.4620	1.3445e-01	1.1646e+00
117	VPW000006	147.1056	147.6916	147.3868	1.4848e-01	1.1992e+00
118	IPW000001	528.2855	538.0472	533.4786	2.3205e+00	9.1308e+00
119	IPW000002	1309.3019	1321.0094	1314.7262	3.5324e+00	1.3171e+01
120	IPW000003	1334.9044	1342.7045	1338.9602	1.9635e+00	1.3323e+01
121	IPW000004	376.5531	380.4594	378.4670	1.2894e+00	3.5971e+00
122	IPW000005	253.5926	255.0573	254.4031	3.7703e-01	2.8354e+00
123	IPW000006	263.6719	266.6016	265.2930	7.8572e-01	2.8970e+00
124	EMPTY	-0.0244	-0.0098	-0.0194	3.8825e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0128	2.5894e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0160	3.8257e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0149	3.7447e-03	0.0000e+00
128	IHT000001	129.6334	131.7819	130.5436	5.3322e-01	4.3028e+00
129	IHT000002	133.3491	135.3022	134.2514	4.8470e-01	4.3142e+00
130	IHT000003	133.3444	135.4928	134.2272	4.8846e-01	4.3141e+00
131	IHT000004	131.6759	133.6291	132.4962	3.9656e-01	4.3088e+00
132	IHT000005	130.2287	131.7912	130.9748	4.2625e-01	4.3041e+00
133	IHT000006	125.1978	126.7603	125.9165	4.0710e-01	4.2890e+00
134	IHT000007	131.9913	133.7491	132.8194	4.3326e-01	4.3098e+00
135	IHT000008	130.6241	132.3819	131.4639	4.5378e-01	4.3056e+00
136	IHT000009	130.7394	132.8878	131.8252	5.2521e-01	4.3067e+00
137	IHT000010	132.7325	135.0762	133.7364	4.8006e-01	4.3126e+00
138	IHT000011	131.0547	133.3984	132.0781	4.8417e-01	4.3075e+00
139	IHT000012	128.6734	130.8219	129.7828	5.2858e-01	4.3005e+00
140	IHT000013	91.9781	93.9313	93.0211	4.8746e-01	4.2042e+00
141	IHT000014	127.8097	129.9581	128.9034	4.7679e-01	4.2979e+00
142	IHT000015	94.7219	96.4797	95.6555	5.0113e-01	4.2101e+00
143	IHT000016	88.0459	90.1944	89.1436	5.2034e-01	4.1958e+00
144	IHT000017	104.6875	108.2031	106.6172	9.4837e-01	4.2364e+00
145	IHT000018	-1.0119	0.7459	-0.2541	3.9585e-01	4.1000e+00
146	IHT000019	107.5372	108.9044	108.3184	3.4625e-01	4.2407e+00
147	IHT000020	106.3419	107.7091	107.0293	3.7897e-01	4.2374e+00
148	IHT000021	0.1291	1.6916	0.9259	3.2739e-01	4.1000e+00
149	IHT000022	92.1075	93.6700	92.7989	3.7891e-01	4.2037e+00
150	IHT000023	105.7441	107.1113	106.4746	3.4357e-01	4.2360e+00
151	IHT000024	66.7162	68.0834	67.5171	3.5568e-01	4.1552e+00
152	IHT000025	103.3509	104.9134	104.2337	3.4903e-01	4.2304e+00
153	IHT000026	105.5088	107.2666	106.4893	4.1100e-01	4.2360e+00
154	IHT000027	89.3378	91.0956	90.3730	4.0289e-01	4.1984e+00
155	IHT000028	89.9944	92.7288	91.3029	5.7079e-01	4.2004e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2500	108.9844	107.5039	5.6784e-01	4.2386e+00
157	IHT000030	108.5137	111.0528	109.8145	5.9922e-01	4.2445e+00
158	IHT000031	106.5206	108.6691	107.5831	5.5124e-01	4.2388e+00
159	IHT000032	107.6972	110.0409	108.8418	5.6360e-01	4.2420e+00
160	IHT000033	-1.3919	0.5612	-0.3411	4.7497e-01	4.1000e+00
161	IHT000034	94.2959	96.6397	95.4326	5.3915e-01	4.2096e+00
162	IHT000035	124.4613	126.8050	125.4886	5.2320e-01	4.2877e+00
163	IHT000036	93.1641	95.3125	94.1133	4.8490e-01	4.2066e+00

Velocity 1 = 6.8373 (ft/sec) (+/- 4.9225 %)
Velocity 2 = 6.8782 (ft/sec) (+/- 3.6864 %)
Pressure drop = -3.5145 (psi)
Tsats in = 268.1666 (deg F) Tsats out = 273.4227 (deg F)
Phi inner = 100.7722 (kBtu/hr-ft2) (+/- 1.5696 %)
Phi outer = 99.6253 (kBtu/hr-ft2) (+/- 1.5559 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.8366	79.4718	79.1132	1.5099e-01	1.9001e+00
1	TRF000002	79.3744	80.0064	79.6538	1.1688e-01	1.9001e+00
2	TFM000001	86.0528	86.9954	86.6082	2.4589e-01	1.9002e+00
3	TIN000001	85.7808	86.4119	86.0941	1.8522e-01	1.9002e+00
4	TRV000001	86.5924	87.9518	87.0937	2.6214e-01	1.9002e+00
5	TSR000001	147.5015	149.6925	149.0684	4.9462e-01	1.9042e+00
6	TAO020136	178.2387	179.1209	178.6590	2.0988e-01	1.9079e+00
7	TAO050136	161.2686	162.1568	161.6249	1.8343e-01	1.9056e+00
8	TAO070136	169.2709	170.2591	169.7531	2.3149e-01	1.9067e+00
9	TAO080136	175.5616	176.4400	175.9537	1.7886e-01	1.9075e+00
10	TAO090136	179.4238	180.3026	179.8663	2.0803e-01	1.9081e+00
11	TAO100136	183.8619	184.6418	184.3512	1.6698e-01	1.9088e+00
12	TAO105136	184.5832	185.4603	184.9335	2.0464e-01	1.9089e+00
13	EMPTY	41.2111	41.4403	41.3234	1.1573e-01	1.9011e+00
14	TAO115136	186.5814	187.6544	187.1389	2.3727e-01	1.9092e+00
15	EMPTY	32.0000	42.5851	37.8902	2.7681e+00	1.9010e+00
16	TAO125136	194.2563	194.9328	194.6247	1.7604e-01	1.9104e+00
17	TAO130136	181.7735	182.4509	182.0434	1.7123e-01	1.9084e+00
18	EMPTY	41.6693	42.1273	42.0105	1.3321e-01	1.9012e+00
19	TAO130048	192.5469	193.1281	192.8314	1.6800e-01	1.9101e+00
20	TAO120224	187.7181	188.5927	188.1665	1.8481e-01	1.9094e+00
21	EMPTY	39.1464	39.3761	39.2542	1.1579e-01	1.9010e+00
22	TAO120312	201.2791	202.0502	201.6725	1.7126e-01	1.9116e+00
23	TAO130312	194.3195	194.9960	194.6169	1.7174e-01	1.9104e+00
24	EMPTY	39.1464	39.8352	39.4651	1.7420e-01	1.9010e+00
25	TRT070000	162.5617	163.9561	163.2587	2.8142e-01	1.9059e+00
26	TRT100000	185.1809	186.1528	185.7363	2.2254e-01	1.9090e+00
27	TRT120000	199.6111	200.5749	200.0399	2.1990e-01	1.9114e+00
28	TRT125000	202.1044	202.7757	202.4022	1.7077e-01	1.9118e+00
29	EMPTY	39.8352	40.0646	40.0225	8.9774e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7649	2.1058e-01	1.9011e+00
31	TAF050136	114.7554	115.7786	115.2317	2.5008e-01	1.9014e+00
32	TAF070136	125.8615	126.9710	126.3158	2.5948e-01	1.9021e+00
33	TAF080136	130.8406	131.8467	131.2901	2.8805e-01	1.9025e+00
34	TAF090136	134.2107	135.4218	134.7936	2.8191e-01	1.9028e+00
35	TAF100136	139.0489	140.0565	139.6167	2.2787e-01	1.9033e+00
36	TAF105136	141.5779	143.0748	142.3156	2.7845e-01	1.9035e+00
37	TAF110136	144.0215	144.9219	144.5279	2.2209e-01	1.9037e+00
38	TAF115136	147.3242	148.2222	147.8410	2.1919e-01	1.9041e+00
39	TAF120136	149.7975	150.5949	150.2528	1.9264e-01	1.9043e+00
40	TAF125136	152.5972	153.4904	153.0713	1.9765e-01	1.9046e+00
41	TAF130136	155.2766	156.1709	155.6376	2.1534e-01	1.9049e+00
42	TAF120048	159.8400	161.2360	160.5197	3.1134e-01	1.9055e+00
43	TAF130048	163.4773	164.4659	164.0443	2.1997e-01	1.9059e+00
44	TAF120224	150.8864	151.9830	151.5475	2.7050e-01	1.9045e+00
45	TAF130224	155.4000	156.4985	155.8892	2.2354e-01	1.9050e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9270	2.4483e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3433	1.3257e-01	1.9010e+00
48	TAI130048	199.6581	200.5257	200.0478	2.4246e-01	1.9114e+00
49	EMPTY	37.9974	38.4572	38.2273	1.4078e-01	1.9010e+00
50	TAI130224	192.9529	194.1178	193.6838	2.7666e-01	1.9103e+00
51	EMPTY	39.8352	40.5234	40.1302	1.7522e-01	1.9011e+00
52	TRR130000	117.1520	120.0095	118.1611	6.8319e-01	1.9016e+00
53	TSI000001	50.7341	51.7048	51.1765	2.0693e-01	1.9002e+00
54	TSI000002	107.1406	108.4797	107.6389	2.9091e-01	1.9010e+00
55	TSO000001	49.4254	50.1847	49.7547	1.8536e-01	1.9003e+00
56	TSO000002	58.8245	59.6840	59.2368	2.2069e-01	1.9001e+00
57	TAF020136	87.8765	88.7205	88.2443	1.8997e-01	1.9002e+00
58	TAF120312	159.0774	160.5644	159.6786	3.1773e-01	1.9054e+00
59	TAF130312	164.5421	165.4308	164.9896	2.5252e-01	1.9061e+00
60	EMPTY	2.2314	2.2412	2.2378	4.0121e-03	0.0000e+00
61	EMPTY	2.2314	2.2461	2.2392	4.8745e-03	0.0000e+00
62	EMPTY	2.2314	2.2461	2.2398	4.3445e-03	0.0000e+00
63	EMPTY	2.2363	2.2510	2.2452	4.3070e-03	0.0000e+00
64	EMPTY	1.1133	1.1230	1.1164	2.5787e-03	0.0000e+00
65	EMPTY	1.1279	1.1377	1.1329	2.1119e-03	0.0000e+00
66	EMPTY	1.1426	1.1475	1.1450	2.4662e-03	0.0000e+00
67	EMPTY	1.1572	1.1621	1.1589	2.3483e-03	0.0000e+00
68	EMPTY	1.1621	1.1719	1.1688	2.5787e-03	0.0000e+00
69	EMPTY	1.1816	1.1865	1.1825	1.9103e-03	0.0000e+00
70	EMPTY	1.1914	1.1963	1.1944	2.4037e-03	0.0000e+00
71	EMPTY	1.2109	1.2158	1.2134	2.4662e-03	0.0000e+00
72	EMPTY	1.2207	1.2256	1.2241	2.2737e-03	0.0000e+00
73	EMPTY	1.2354	1.2402	1.2387	2.2737e-03	0.0000e+00
74	EMPTY	1.2500	1.2500	1.2500	0.0000e+00	0.0000e+00
75	EMPTY	1.2598	1.2695	1.2642	1.6787e-03	0.0000e+00
76	EMPTY	1.2695	1.2793	1.2745	1.2165e-03	0.0000e+00
77	EMPTY	1.2891	1.2939	1.2893	9.7615e-04	0.0000e+00
78	EMPTY	1.3037	1.3135	1.3086	9.9670e-04	0.0000e+00
79	EMPTY	1.3232	1.3281	1.3280	6.9754e-04	0.0000e+00
80	PAN020136	-12.5461	-11.4017	-12.0261	2.7626e-01	8.7052e-01
81	PAN050136	-23.9690	-22.5957	-23.4272	2.9062e-01	1.6810e+00
82	PAN070136	-15.0936	-14.3307	-14.7340	1.7201e-01	8.7078e-01
83	PAN080136	-8.2108	-7.7531	-7.9524	1.0656e-01	8.7023e-01
84	PAN090136	-7.9700	-7.5122	-7.7987	1.0156e-01	8.7022e-01
85	PAN100136	-7.9801	-7.5223	-7.8057	9.0808e-02	8.7022e-01
86	PAN105136	-3.8378	-3.5326	-3.6883	7.6229e-02	8.7005e-01
87	PAN110136	-4.0806	-3.7754	-3.9435	8.3836e-02	8.7006e-01
88	PAN115136	-3.5153	-3.2101	-3.4032	7.9565e-02	8.7004e-01
89	PAN120136	-4.1577	-3.7762	-3.9335	9.2669e-02	8.7006e-01
90	PAN125136	-3.7661	-3.5372	-3.6805	7.0740e-02	8.7005e-01
91	PAN130136	-4.0271	-3.7219	-3.9446	8.6481e-02	8.7006e-01
92	PAN120048	-8.5336	-7.9232	-8.3062	1.3075e-01	8.7025e-01
93	PAN130048	-7.9673	-7.5095	-7.7462	9.3758e-02	8.7022e-01
94	PAN120224	-7.5077	-6.9736	-7.3286	1.0395e-01	8.7019e-01
95	PAN130224	-8.0610	-7.5270	-7.7714	1.1652e-01	8.7022e-01
96	PAN120312	-7.7798	-7.3220	-7.5353	1.1119e-01	8.7020e-01
97	PAN130312	-8.2043	-7.7466	-7.9241	1.0721e-01	8.7023e-01
98	PAB000136	40.2565	40.8058	40.5386	1.1571e-01	5.8879e-01
99	PAB100136	43.3114	43.6318	43.4992	7.4895e-02	5.9011e-01
100	PAB125136	44.0620	44.3366	44.2460	6.0188e-02	5.9045e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9808	40.8353	40.4815	1.8687e-01	7.5680e-01
102	PRV000001	19.6054	19.7274	19.7224	2.4404e-02	7.5162e-01
103	PSR000001	43.9444	44.0665	44.0291	5.6843e-02	7.5803e-01
104	PFM000001	6.9384	7.3961	7.1626	8.3704e-02	5.0032e-01
105	PAN000136	-101.8142	-93.1167	-97.3020	2.0106e+00	4.9260e+00
106	PFM000002	7.1149	7.3514	7.2497	5.6507e-02	2.0082e-01
107	EMPTY	-0.0049	0.0049	-0.0003	4.3909e-03	0.0000e+00
108	EMPTY	-5.1709	-3.8574	-4.1817	3.2321e-01	0.0000e+00
109	EMPTY	-0.0049	0.0098	-0.0002	2.6293e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	100.5906	101.1766	100.8896	1.3869e-01	1.0112e+00
113	VPW000002	118.5500	118.9406	118.6536	1.2028e-01	1.0784e+00
114	VPW000003	146.0538	146.6397	146.3965	1.3538e-01	1.1948e+00
115	VPW000004	104.6522	105.0428	104.8037	1.2135e-01	1.0254e+00
116	VPW000005	138.9425	139.7238	139.2852	1.8064e-01	1.1638e+00
117	VPW000006	147.1056	147.6916	147.2889	1.2229e-01	1.1988e+00
118	IPW000001	528.2855	534.1425	531.1940	1.9573e+00	9.1225e+00
119	IPW000002	1305.3993	1311.2531	1309.3418	1.5676e+00	1.3138e+01
120	IPW000003	1336.8544	1340.7544	1339.0432	1.2354e+00	1.3323e+01
121	IPW000004	376.0648	378.5063	377.3601	6.5016e-01	3.5899e+00
122	IPW000005	253.5926	255.5455	254.3997	4.6266e-01	2.8353e+00
123	IPW000006	263.1836	265.1367	264.0904	4.2286e-01	2.8901e+00
124	EMPTY	-0.0293	-0.0098	-0.0206	4.2597e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.8619e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0177	3.8206e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.3634e-03	0.0000e+00
128	IHT000001	129.4381	131.5866	130.5223	4.9485e-01	4.3027e+00
129	IHT000002	133.1537	135.3022	134.2260	5.0449e-01	4.3141e+00
130	IHT000003	133.1491	135.1022	134.2053	4.6990e-01	4.3141e+00
131	IHT000004	131.2853	133.4337	132.4572	5.0272e-01	4.3087e+00
132	IHT000005	129.8381	131.9866	130.9382	4.9586e-01	4.3040e+00
133	IHT000006	124.6119	126.5650	125.8355	5.0394e-01	4.2888e+00
134	IHT000007	131.7959	133.7491	132.8083	4.8448e-01	4.3097e+00
135	IHT000008	130.0381	132.7725	131.4770	5.2845e-01	4.3056e+00
136	IHT000009	130.3488	133.2784	131.8952	5.3761e-01	4.3069e+00
137	IHT000010	132.7325	135.2716	133.7967	5.9142e-01	4.3128e+00
138	IHT000011	130.8594	133.5938	132.0950	5.9051e-01	4.3075e+00
139	IHT000012	128.6734	131.2125	129.8174	6.0199e-01	4.3006e+00
140	IHT000013	92.1734	94.3219	93.2058	5.3041e-01	4.2046e+00
141	IHT000014	128.0050	130.1534	128.9257	5.3489e-01	4.2979e+00
142	IHT000015	94.7219	96.8703	95.8101	4.8007e-01	4.2105e+00
143	IHT000016	88.0459	89.9991	89.1979	4.5324e-01	4.1959e+00
144	IHT000017	105.6641	108.3984	107.2505	5.8815e-01	4.2380e+00
145	IHT000018	-1.0119	1.1366	0.0683	4.2399e-01	4.1000e+00
146	IHT000019	107.7325	110.0762	108.6094	4.8028e-01	4.2414e+00
147	IHT000020	106.3419	108.8809	107.3104	4.9468e-01	4.2381e+00
148	IHT000021	0.3244	2.6681	1.1335	4.7341e-01	4.1000e+00
149	IHT000022	92.1075	94.4512	92.9684	4.7327e-01	4.2041e+00
150	IHT000023	105.9394	108.0878	106.7605	4.5278e-01	4.2367e+00
151	IHT000024	67.1069	69.0600	67.7965	4.1452e-01	4.1557e+00
152	IHT000025	103.5462	106.0853	104.5108	4.5876e-01	4.2311e+00
153	IHT000026	105.8994	108.2431	106.8002	4.6973e-01	4.2368e+00
154	IHT000027	89.5331	92.0722	90.5057	4.8418e-01	4.1987e+00
155	IHT000028	90.1897	92.1428	90.9749	5.1442e-01	4.1997e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2500	108.7891	107.2505	5.2836e-01	4.2380e+00
157	IHT000030	108.5137	110.8575	109.5540	4.8072e-01	4.2438e+00
158	IHT000031	106.3253	108.4737	107.3337	4.7733e-01	4.2382e+00
159	IHT000032	107.6972	109.6503	108.6100	4.5349e-01	4.2414e+00
160	IHT000033	-1.5872	0.1706	-0.6943	4.7172e-01	4.1000e+00
161	IHT000034	94.2959	96.0537	95.1170	4.5278e-01	4.2089e+00
162	IHT000035	124.0706	126.0238	125.0552	4.4922e-01	4.2865e+00
163	IHT000036	92.7734	94.7266	93.7420	4.5098e-01	4.2058e+00

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Velocity 1 = 0.023700 (ft/sec)

Velocity 2 = 0.023900 (ft/sec)

Pressure Drop = 0.011900 (psi)

Tsat in = 0.015991 (deg F) Tsat out = 0.087494 (deg F)

Phi inner = 0.149696 (kBtu/hr-ft2) Phi outer = 0.406799 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0071	0.0090
1	TRF000002	0.0197	0.0247
2	TFM000001	0.0225	0.0260
3	TIN000001	0.2797	0.3238
4	TRV000001	0.7857	0.8941
5	TSR000001	0.1168	0.0784
6	TAO020136	0.0595	0.0333
7	TAO050136	0.1841	0.1138
8	TAO070136	0.1307	0.0769
9	TAO080136	0.0799	0.0454
10	TAO090136	0.1746	0.0970
11	TAO100136	0.1616	0.0876
12	TAO105136	0.2073	0.1120
13	EMPTY	0.0206	0.0498
14	TAO115136	0.1567	0.0837
15	EMPTY	0.4065	1.0614
16	TAO125136	0.1759	0.0903
17	TAO130136	0.1621	0.0890
18	EMPTY	0.0572	0.1363
19	TAO130048	0.1488	0.0771
20	TAO120224	0.2241	0.1189
21	EMPTY	0.0071	0.0181
22	TAO120312	0.1732	0.0858
23	TAO130312	0.2160	0.1109
24	EMPTY	0.0247	0.0626
25	TRT070000	0.0955	0.0585
26	TRT100000	0.2257	0.1214
27	TRT120000	0.1685	0.0842
28	TRT125000	0.1356	0.0669
29	EMPTY	0.0175	0.0437
30	EMPTY	0.0399	0.1004
31	TAF050136	0.1866	0.1617
32	TAF070136	0.1425	0.1127
33	TAF080136	0.0695	0.0529
34	TAF090136	0.0954	0.0707
35	TAF100136	0.1821	0.1303
36	TAF105136	0.1686	0.1183
37	TAF110136	0.1976	0.1365
38	TAF115136	0.1893	0.1279
39	TAF120136	0.2412	0.1603
40	TAF125136	0.1648	0.1075
41	TAF130136	0.1914	0.1228
42	TAF120048	0.1379	0.0858
43	TAF130048	0.1883	0.1147
44	TAF120224	0.2001	0.1319
45	TAF130224	0.2061	0.1320

#	Name	Abs Diff	%Diff
46	EMPTY	0.0704	0.1853
47	EMPTY	0.0557	0.1414
48	TAI130048	0.1772	0.0885
49	EMPTY	0.0782	0.2042
50	TAI130224	0.1116	0.0576
51	EMPTY	0.0262	0.0652
52	TRR130000	0.4778	0.4027
53	TSI000001	0.1058	0.2072
54	TSI000002	0.0704	0.0654
55	TSO000001	0.0306	0.0615
56	TSO000002	0.0212	0.0358
57	TAF020136	0.0012	0.0014
58	TAF120312	0.0930	0.0582
59	TAF130312	0.1332	0.0807
60	EMPTY	0.0026	0.1161
61	EMPTY	0.0026	0.1160
62	EMPTY	0.0033	0.1471
63	EMPTY	0.0043	0.1912
64	EMPTY	0.0018	0.1610
65	EMPTY	0.0021	0.1850
66	EMPTY	0.0026	0.2266
67	EMPTY	0.0031	0.2668
68	EMPTY	0.0032	0.2730
69	EMPTY	0.0038	0.3203
70	EMPTY	0.0021	0.1755
71	EMPTY	0.0023	0.1892
72	EMPTY	0.0014	0.1142
73	EMPTY	0.0022	0.1773
74	EMPTY	0.0030	0.2394
75	EMPTY	0.0007	0.0553
76	EMPTY	0.0011	0.0862
77	EMPTY	0.0043	0.3324
78	EMPTY	0.0025	0.1907
79	EMPTY	0.0040	0.3003
80	PAN020136	0.0440	0.3645
81	PAN050136	0.1603	0.6796
82	PAN070136	0.0203	0.1380
83	PAN080136	0.0433	0.5415
84	PAN090136	0.0034	0.0436
85	PAN100136	0.0127	0.1624
86	PAN105136	0.0060	0.1624
87	PAN110136	0.0018	0.0457
88	PAN115136	0.0098	0.2871
89	PAN120136	0.0153	0.3905
90	PAN125136	0.0108	0.2926
91	PAN130136	0.0106	0.2694
92	PAN120048	0.0244	0.2946
93	PAN130048	0.0017	0.0220
94	PAN120224	0.0143	0.1947
95	PAN130224	0.0241	0.3092
96	PAN120312	0.0064	0.0849
97	PAN130312	0.0132	0.1663
98	PAB000136	0.0109	0.0269
99	PAB100136	0.0539	0.1238
100	PAB125136	0.0641	0.1447

#	Name	Abs Diff	%Diff
101	PIN000001	0.1468	0.3639
102	PRV000001	0.0145	0.0736
103	PSR000001	0.0032	0.0073
104	PFM000001	0.0503	0.7072
105	PAN000136	0.3309	0.3412
106	PFM000002	0.0510	0.7085
107	EMPTY	0.0027	112.5000
108	EMPTY	0.0254	0.6037
109	EMPTY	0.0016	114.2857
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.1034	0.1024
113	VPW000002	0.0409	0.0345
114	VPW000003	0.1182	0.0807
115	VPW000004	0.0516	0.0492
116	VPW000005	0.1768	0.1268
117	VPW000006	0.0979	0.0664
118	IPW000001	2.2846	0.4282
119	IPW000002	5.3844	0.4095
120	IPW000003	0.0830	0.0062
121	IPW000004	1.1069	0.2925
122	IPW000005	0.0034	0.0013
123	IPW000006	1.2026	0.4533
124	EMPTY	0.0012	6.1856
125	EMPTY	0.0014	10.9375
126	EMPTY	0.0017	10.6250
127	EMPTY	0.0013	8.7248
128	IHT000001	0.0213	0.0163
129	IHT000002	0.0254	0.0189
130	IHT000003	0.0219	0.0163
131	IHT000004	0.0390	0.0294
132	IHT000005	0.0366	0.0279
133	IHT000006	0.0810	0.0643
134	IHT000007	0.0111	0.0084
135	IHT000008	0.0131	0.0100
136	IHT000009	0.0700	0.0531
137	IHT000010	0.0603	0.0451
138	IHT000011	0.0169	0.0128
139	IHT000012	0.0346	0.0267
140	IHT000013	0.1847	0.1986
141	IHT000014	0.0223	0.0173
142	IHT000015	0.1546	0.1616
143	IHT000016	0.0543	0.0609
144	IHT000017	0.6333	0.5940
145	IHT000018	0.3224	120.8792
146	IHT000019	0.2910	0.2687
147	IHT000020	0.2811	0.2626
148	IHT000021	0.2076	22.4214
149	IHT000022	0.1695	0.1827
150	IHT000023	0.2859	0.2685
151	IHT000024	0.2794	0.4138
152	IHT000025	0.2771	0.2658
153	IHT000026	0.3109	0.2920
154	IHT000027	0.1327	0.1468
155	IHT000028	0.3280	0.3592

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2534	0.2357
157	IHT000030	0.2605	0.2372
158	IHT000031	0.2494	0.2318
159	IHT000032	0.2318	0.2130
160	IHT000033	0.3532	103.5473
161	IHT000034	0.3156	0.3307
162	IHT000035	0.4334	0.3454
163	IHT000036	0.3713	0.3945

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Velocity 1 = 25.9646 (ft/sec) (+/- 3.4791 %)

Velocity 2 = 13.2648 (ft/sec) (+/- 3.4866 %)

Pressure drop = 21.2905 (psi)

Tsat in = 268.1319 (deg F) Tsat out = 227.1699 (deg F)

Phi inner = 100.7329 (kBtu/hr-ft2) (+/- 1.5694 %)

Phi outer = 100.6647 (kBtu/hr-ft2) (+/- 1.5515 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4220	75.0599	74.7324	1.6193e-01	1.9000e+00
1	TRF000002	74.7191	75.3537	75.0914	1.3886e-01	1.9000e+00
2	TFM000001	85.5993	86.4388	86.1095	1.9650e-01	1.9002e+00
3	TIN000001	85.8834	86.5139	86.1925	1.4772e-01	1.9002e+00
4	TRV000001	85.9470	86.8901	86.4566	2.0958e-01	1.9002e+00
5	TSR000001	105.7090	106.4313	106.1151	1.7488e-01	1.9009e+00
6	EMPTY	37.9974	38.9168	38.4664	2.1758e-01	1.9010e+00
7	TAO050136	115.0886	115.8059	115.3900	1.9228e-01	1.9014e+00
8	TAO070136	116.2565	117.0793	116.6291	1.8689e-01	1.9015e+00
9	TAO080136	117.1780	117.9959	117.6420	1.6676e-01	1.9015e+00
10	TAO090136	118.9948	119.8132	119.3121	1.7799e-01	1.9016e+00
11	TAO100136	118.7696	119.5879	119.1110	1.6487e-01	1.9016e+00
12	TAO105136	118.8442	119.6641	119.3175	2.1988e-01	1.9016e+00
13	EMPTY	40.9819	41.4403	41.2799	1.1573e-01	1.9011e+00
14	TAO115136	126.1238	126.9409	126.5224	1.8007e-01	1.9022e+00
15	EMPTY	37.3074	37.5374	37.4040	1.1471e-01	1.9009e+00
16	TAO125136	121.7475	122.3598	122.0476	1.5740e-01	1.9018e+00
17	EMPTY	31.9235	32.3911	32.1527	8.8240e-02	1.9007e+00
18	EMPTY	41.4403	41.6693	41.5273	1.1232e-01	1.9012e+00
19	TAO130048	118.6929	119.3067	118.9938	1.5225e-01	1.9016e+00
20	TAO120224	118.9555	119.5700	119.3384	1.4446e-01	1.9016e+00
21	EMPTY	38.9168	39.1464	39.1327	5.5101e-02	1.9010e+00
22	TAO120312	123.0197	123.6326	123.3935	1.6704e-01	1.9019e+00
23	TAO130312	119.4600	120.0732	119.8704	1.3777e-01	1.9017e+00
24	EMPTY	38.9168	39.6057	39.2567	1.9813e-01	1.9010e+00
25	TRT070000	117.0119	118.0416	117.4626	2.0690e-01	1.9015e+00
26	TRT100000	124.5283	125.3431	125.0272	1.9094e-01	1.9020e+00
27	TRT120000	122.8026	123.6189	123.2209	1.6260e-01	1.9019e+00
28	TRT125000	124.3971	125.3103	124.9353	1.8596e-01	1.9020e+00
29	EMPTY	39.6057	40.0646	39.8535	9.0851e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7204	1.8109e-01	1.9011e+00
31	TAF050136	93.6771	94.5111	94.1087	1.9057e-01	1.9004e+00
32	TAF070136	96.4161	97.2453	96.7750	1.9120e-01	1.9005e+00
33	TAF080136	97.3573	98.0827	97.6623	1.7815e-01	1.9005e+00
34	TAF090136	98.0181	98.9543	98.5196	2.5346e-01	1.9005e+00
35	TAF100136	99.6828	100.5144	100.1133	1.9253e-01	1.9006e+00
36	TAF105136	100.7394	101.7692	101.2928	2.3072e-01	1.9007e+00
37	TAF110136	101.6854	102.5134	102.0727	1.6306e-01	1.9007e+00
38	TAF115136	103.1820	103.9063	103.5108	1.9338e-01	1.9008e+00
39	TAF120136	103.8046	104.4253	104.1171	1.5121e-01	1.9008e+00
40	TAF125136	104.8483	105.4681	105.1440	1.4440e-01	1.9008e+00
41	TAF130136	105.3532	105.9737	105.7233	1.5351e-01	1.9009e+00
42	TAF120048	105.9951	106.7229	106.4009	2.0789e-01	1.9009e+00
43	TAF130048	106.6793	107.2996	107.0327	1.5061e-01	1.9009e+00
44	TAF120224	103.7980	104.8321	104.3298	1.9377e-01	1.9008e+00
45	TAF130224	104.5571	105.1790	104.9737	1.2989e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9100	1.9094e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1051	1.0049e-01	1.9010e+00
48	TAI130048	124.7138	125.9361	125.4902	2.6892e-01	1.9021e+00
49	TAI130136	122.5402	123.4557	122.9898	2.2529e-01	1.9019e+00
50	TAI130224	122.2290	123.5572	122.8606	3.0471e-01	1.9019e+00
51	TAI130312	117.7159	118.6378	118.1647	1.9303e-01	1.9016e+00
52	TRR130000	120.4058	122.1363	121.3042	3.7126e-01	1.9018e+00
53	TSI000001	41.9104	42.6719	42.3132	2.0404e-01	1.9005e+00
54	TSI000002	75.9161	77.1848	76.6033	3.4685e-01	1.9000e+00
55	TSO000001	40.9859	41.7513	41.3291	2.0011e-01	1.9006e+00
56	TSO000002	47.0679	48.1520	47.6992	1.9799e-01	1.9003e+00
57	TAF020136	89.1678	90.0085	89.6199	1.9497e-01	1.9003e+00
58	EMPTY	42.8139	43.5000	43.1387	2.3600e-01	1.9013e+00
59	TAF130312	106.8665	107.6914	107.3346	1.8555e-01	1.9009e+00
60	EMPTY	0.9521	0.9570	0.9558	2.1635e-03	0.0000e+00
61	EMPTY	0.9619	0.9668	0.9667	6.9053e-04	0.0000e+00
62	EMPTY	0.9717	0.9814	0.9766	9.8648e-04	0.0000e+00
63	EMPTY	0.9863	0.9912	0.9906	1.6028e-03	0.0000e+00
64	EMPTY	0.5518	0.5566	0.5565	6.9053e-04	0.0000e+00
65	EMPTY	0.5713	0.5762	0.5760	9.6655e-04	0.0000e+00
66	EMPTY	0.5908	0.5908	0.5908	0.0000e+00	0.0000e+00
67	EMPTY	0.6055	0.6104	0.6064	1.9730e-03	0.0000e+00
68	EMPTY	0.6201	0.6201	0.6201	0.0000e+00	0.0000e+00
69	EMPTY	0.6348	0.6396	0.6388	1.8950e-03	0.0000e+00
70	EMPTY	0.6494	0.6543	0.6526	2.3365e-03	0.0000e+00
71	EMPTY	0.6738	0.6787	0.6739	6.9053e-04	0.0000e+00
72	EMPTY	0.6885	0.6885	0.6885	0.0000e+00	0.0000e+00
73	EMPTY	0.7031	0.7080	0.7052	2.4344e-03	0.0000e+00
74	EMPTY	0.7178	0.7227	0.7182	1.3381e-03	0.0000e+00
75	EMPTY	0.7324	0.7373	0.7371	9.6655e-04	0.0000e+00
76	EMPTY	0.7471	0.7520	0.7494	2.4642e-03	0.0000e+00
77	EMPTY	0.7666	0.7715	0.7672	1.6028e-03	0.0000e+00
78	EMPTY	0.7861	0.7910	0.7907	1.1714e-03	0.0000e+00
79	EMPTY	0.8057	0.8105	0.8104	6.9053e-04	0.0000e+00
80	PAN020136	72.4310	76.5509	74.1201	9.6407e-01	8.8951e-01
81	PAN050136	136.6240	138.3024	137.5029	3.9425e-01	1.7148e+00
82	PAN070136	100.0393	100.0393	100.0394	2.3121e-05	9.0523e-01
83	PAN080136	44.1494	44.8361	44.4668	1.7800e-01	8.7707e-01
84	PAN090136	42.7115	43.3219	43.0396	1.4064e-01	8.7663e-01
85	PAN100136	44.0305	45.4801	45.0086	2.5732e-01	8.7725e-01
86	PAN105136	32.0647	33.5906	32.6400	2.6573e-01	8.7382e-01
87	PAN110136	27.2303	27.6881	27.4897	1.1221e-01	8.7271e-01
88	PAN115136	22.2244	22.6822	22.4792	1.1180e-01	8.7181e-01
89	PAN120136	18.5579	19.0156	18.8890	9.0679e-02	8.7128e-01
90	PAN125136	19.0845	19.4660	19.2661	9.9761e-02	8.7133e-01
91	PAN130136	17.6716	18.0531	17.9127	1.0719e-01	8.7115e-01
92	PAN120048	40.7808	41.7726	41.3148	2.4126e-01	8.7611e-01
93	PAN130048	38.7795	39.9240	39.3090	2.5580e-01	8.7553e-01
94	PAN120224	43.6022	44.2125	43.9425	1.4558e-01	8.7691e-01
95	PAN130224	38.3658	38.9761	38.7411	1.5168e-01	8.7537e-01
96	PAN120312	42.6456	43.1796	42.8623	1.3021e-01	8.7657e-01
97	PAN130312	36.8413	37.5280	37.1541	1.6475e-01	8.7494e-01
98	PAB000136	40.2697	40.6817	40.5151	9.7769e-02	5.8878e-01
99	PAB100136	24.0596	24.2885	24.1805	4.6939e-02	5.8314e-01
100	PAB125136	19.7284	19.8658	19.7962	3.7269e-02	5.8211e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0188	41.1174	40.4460	1.8660e-01	7.5679e-01
102	PRV000001	19.5111	19.6331	19.6014	5.4088e-02	7.5160e-01
103	PSR000001	16.6025	16.7245	16.6928	5.4088e-02	7.5116e-01
104	PFM000001	104.5357	106.2752	105.3963	4.0860e-01	5.6518e-01
105	PAN000136	586.3162	594.0981	589.4380	1.6354e+00	5.1359e+00
106	PFM000002	27.3191	27.3191	27.3191	7.7069e-06	2.1134e-01
107	EMPTY	0.0049	0.0098	0.0077	2.4344e-03	0.0000e+00
108	EMPTY	-10.0000	1.5234	-5.4285	3.1977e+00	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0049	9.8648e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW000001	101.3672	101.9531	101.6914	1.3445e-01	1.0141e+00
113	VPW000002	118.3556	118.9415	118.6525	1.2627e-01	1.0784e+00
114	VPW000003	146.4355	147.0215	146.7090	1.3669e-01	1.1962e+00
115	VPW000004	104.3870	104.9730	104.6410	1.3811e-01	1.0248e+00
116	VPW000005	138.7883	139.3743	139.1671	1.7384e-01	1.1633e+00
117	VPW000006	145.3388	145.9247	145.5185	1.5201e-01	1.1910e+00
118	IPW000001	545.0041	548.9088	547.0345	1.1807e+00	9.1807e+00
119	IPW000002	1310.2026	1318.0077	1312.6218	1.5042e+00	1.3158e+01
120	IPW000003	1331.5125	1337.3625	1334.2813	1.3698e+00	1.3294e+01
121	IPW000004	381.7514	383.2163	382.5326	3.1195e-01	3.6239e+00
122	IPW000005	254.6319	255.6084	255.0322	2.9077e-01	2.8389e+00
123	IPW000006	267.6626	269.6158	268.6003	4.9166e-01	2.9159e+00
124	EMPTY	-0.0293	-0.0146	-0.0229	3.4527e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.6025e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0201	3.5072e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0177	3.5417e-03	0.0000e+00
128	IHT000001	131.5392	133.6877	132.5197	5.1974e-01	4.3088e+00
129	IHT000002	131.0997	133.0529	131.8888	4.7998e-01	4.3069e+00
130	IHT000003	129.7776	131.5354	130.5941	4.7464e-01	4.3030e+00
131	IHT000004	131.9561	134.2999	132.9795	4.7279e-01	4.3103e+00
132	IHT000005	130.2960	132.2491	131.2061	4.5781e-01	4.3048e+00
133	IHT000006	125.8301	127.7832	126.7871	4.4512e-01	4.2916e+00
134	IHT000007	132.2378	134.3863	133.1323	4.8663e-01	4.3107e+00
135	IHT000008	130.8744	132.8275	131.8393	4.8554e-01	4.3068e+00
136	IHT000009	130.6002	132.9440	131.5494	5.3235e-01	4.3059e+00
137	IHT000010	130.3899	132.7336	131.9445	5.0680e-01	4.3071e+00
138	IHT000011	131.4491	133.7928	132.8749	4.6396e-01	4.3099e+00
139	IHT000012	130.6678	133.0116	131.9608	5.1884e-01	4.3071e+00
140	IHT000013	91.9171	94.2608	93.2412	5.0731e-01	4.2047e+00
141	IHT000014	127.6517	129.8002	128.8081	4.6662e-01	4.2976e+00
142	IHT000015	94.7566	96.7097	95.8347	4.7554e-01	4.2105e+00
143	IHT000016	88.6907	90.8391	89.8743	4.5747e-01	4.1973e+00
144	IHT000017	105.6903	107.4482	106.5927	4.3564e-01	4.2363e+00
145	IHT000018	107.4745	109.6229	108.3378	4.0451e-01	4.2407e+00
146	IHT000019	107.8463	109.6041	108.7212	4.2907e-01	4.2417e+00
147	IHT000020	106.4078	107.7749	107.0952	4.0480e-01	4.2376e+00
148	IHT000021	-2.3099	-0.3568	-1.4232	5.0101e-01	4.1000e+00
149	IHT000022	93.0288	94.7866	93.8999	4.3977e-01	4.2062e+00
150	IHT000023	105.6415	107.3993	106.5517	4.0933e-01	4.2362e+00
151	IHT000024	71.2027	72.7652	71.9683	3.9031e-01	4.1627e+00
152	IHT000025	103.5720	104.9392	104.2087	3.8624e-01	4.2304e+00
153	IHT000026	105.6941	107.4519	106.3856	3.8502e-01	4.2358e+00
154	IHT000027	90.3621	92.3152	91.1473	3.7536e-01	4.2001e+00
155	IHT000028	90.6025	92.9462	91.8017	6.0104e-01	4.2015e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.9007	108.4398	107.1702	6.0393e-01	4.2378e+00
157	IHT000030	108.8341	111.3732	109.9513	5.8930e-01	4.2449e+00
158	IHT000031	106.8960	109.4351	107.9038	5.7637e-01	4.2396e+00
159	IHT000032	107.3543	109.8933	108.5223	5.7248e-01	4.2412e+00
160	IHT000033	107.3618	109.9008	108.4751	5.6393e-01	4.2411e+00
161	IHT000034	94.1557	96.4994	95.2299	5.3561e-01	4.2091e+00
162	IHT000035	124.2563	126.4048	125.2056	5.6083e-01	4.2869e+00
163	IHT000036	93.0701	95.0233	93.8983	5.2875e-01	4.2061e+00

Velocity 1 = 25.9670 (ft/sec) (+/- 3.4791 %)
Velocity 2 = 13.2649 (ft/sec) (+/- 3.4866 %)
Pressure drop = 21.2918 (psi)
Tsat in = 268.1228 (deg F) Tsat out = 227.1335 (deg F)
Phi inner = 100.7254 (kBtu/hr-ft2) (+/- 1.5694 %)
Phi outer = 100.6162 (kBtu/hr-ft2) (+/- 1.5518 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4220	75.0599	74.7952	1.7646e-01	1.9000e+00
1	TRF000002	74.9307	75.3537	75.1422	1.2211e-01	1.9000e+00
2	TFM000001	85.5999	86.6489	86.2120	2.1010e-01	1.9002e+00
3	TIN000001	85.9887	86.6192	86.2889	1.4065e-01	1.9002e+00
4	TRV000001	86.0518	86.7862	86.4843	2.1245e-01	1.9002e+00
5	TSR000001	105.4009	106.5344	105.9703	2.4190e-01	1.9009e+00
6	EMPTY	37.9974	38.9168	38.4196	2.2668e-01	1.9010e+00
7	TAO050136	115.1915	115.9082	115.4693	1.6592e-01	1.9014e+00
8	TAO070136	116.3593	117.1821	116.7416	1.7940e-01	1.9015e+00
9	TAO080136	117.4845	118.0981	117.7558	1.4539e-01	1.9015e+00
10	TAO090136	118.9952	119.9152	119.3645	1.8876e-01	1.9016e+00
11	TAO100136	118.8717	119.6900	119.1598	1.6531e-01	1.9016e+00
12	TAO105136	119.0490	119.6639	119.3857	1.6854e-01	1.9016e+00
13	EMPTY	40.9819	41.4403	41.2813	1.1650e-01	1.9011e+00
14	TAO115136	126.0217	127.0424	126.5721	2.4820e-01	1.9022e+00
15	EMPTY	37.3074	37.5374	37.4670	1.0714e-01	1.9009e+00
16	TAO125136	121.8494	122.4616	122.1577	1.4638e-01	1.9018e+00
17	EMPTY	31.9235	32.3911	32.1335	8.5973e-02	1.9007e+00
18	EMPTY	41.4403	41.8984	41.5712	1.2371e-01	1.9012e+00
19	TAO130048	118.7956	119.4088	119.0792	1.2558e-01	1.9016e+00
20	TAO120224	119.0581	119.8766	119.3963	1.6604e-01	1.9016e+00
21	EMPTY	39.1464	39.3761	39.1558	4.5907e-02	1.9010e+00
22	TAO120312	123.1220	123.8363	123.5178	1.5683e-01	1.9019e+00
23	TAO130312	119.6641	120.2771	119.9456	1.3127e-01	1.9017e+00
24	EMPTY	38.9168	39.6057	39.2823	2.0388e-01	1.9010e+00
25	TRT070000	117.1142	117.9375	117.5642	1.7791e-01	1.9015e+00
26	TRT100000	124.8339	125.5463	125.1205	1.9109e-01	1.9020e+00
27	TRT120000	123.0072	123.7206	123.2961	1.5627e-01	1.9019e+00
28	TRT125000	124.7018	125.3118	124.9962	1.4830e-01	1.9020e+00
29	EMPTY	39.6057	40.0646	39.8446	1.1435e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6338	1.9675e-01	1.9011e+00
31	TAF050136	93.7818	94.6152	94.1432	1.9725e-01	1.9004e+00
32	TAF070136	96.4161	97.3497	96.9030	2.0654e-01	1.9005e+00
33	TAF080136	97.3573	98.0832	97.7217	1.5433e-01	1.9005e+00
34	TAF090136	98.1224	99.0581	98.6168	2.2994e-01	1.9006e+00
35	TAF100136	99.7864	100.5144	100.1518	2.0042e-01	1.9006e+00
36	TAF105136	100.8414	101.7697	101.3801	2.1070e-01	1.9007e+00
37	TAF110136	101.8929	102.4107	102.1440	1.4782e-01	1.9007e+00
38	TAF115136	103.1820	104.0096	103.5409	1.8646e-01	1.9008e+00
39	TAF120136	103.9080	104.5286	104.1616	1.6615e-01	1.9008e+00
40	TAF125136	104.9516	105.5713	105.1714	1.4074e-01	1.9008e+00
41	TAF130136	105.4564	106.0769	105.7563	1.6498e-01	1.9009e+00
42	TAF120048	106.0995	106.8273	106.5023	2.0401e-01	1.9009e+00
43	TAF130048	106.7829	107.4026	107.1327	1.5179e-01	1.9009e+00
44	TAF120224	103.9018	104.9359	104.4167	1.7847e-01	1.9008e+00
45	TAF130224	104.7636	105.2822	105.0201	1.3061e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.8895	1.8836e-01	1.9010e+00
47	EMPTY	38.9168	39.1464	39.0902	9.9795e-02	1.9010e+00
48	TAI130048	125.0197	125.9366	125.5726	2.6379e-01	1.9021e+00
49	TAI130136	122.6420	123.4562	123.0179	1.6255e-01	1.9019e+00
50	TAI130224	122.3308	123.3529	122.8296	2.5783e-01	1.9019e+00
51	TAI130312	117.7159	118.7405	118.2136	2.2628e-01	1.9016e+00
52	TRR130000	120.5076	122.2390	121.3851	3.9651e-01	1.9018e+00
53	TSI000001	42.0191	42.7810	42.3704	1.8612e-01	1.9005e+00
54	TSI000002	75.2833	77.6068	76.4020	5.4496e-01	1.9000e+00
55	TSO000001	40.9859	41.7513	41.3739	1.8686e-01	1.9006e+00
56	TSO000002	47.3935	48.2607	47.7209	1.9231e-01	1.9003e+00
57	TAF020136	89.2729	90.1135	89.6589	1.9007e-01	1.9003e+00
58	EMPTY	42.8139	43.5000	43.1593	2.6866e-01	1.9013e+00
59	TAF130312	107.1757	107.7950	107.3843	1.3889e-01	1.9009e+00
60	EMPTY	0.9521	0.9570	0.9552	2.3783e-03	0.0000e+00
61	EMPTY	0.9619	0.9668	0.9667	6.9754e-04	0.0000e+00
62	EMPTY	0.9717	0.9766	0.9760	1.6172e-03	0.0000e+00
63	EMPTY	0.9863	0.9912	0.9902	1.9883e-03	0.0000e+00
64	EMPTY	0.5518	0.5566	0.5565	6.9754e-04	0.0000e+00
65	EMPTY	0.5713	0.5811	0.5760	1.3951e-03	0.0000e+00
66	EMPTY	0.5908	0.5908	0.5908	0.0000e+00	0.0000e+00
67	EMPTY	0.6055	0.6104	0.6064	1.9103e-03	0.0000e+00
68	EMPTY	0.6152	0.6201	0.6199	9.7615e-04	0.0000e+00
69	EMPTY	0.6348	0.6396	0.6376	2.4414e-03	0.0000e+00
70	EMPTY	0.6494	0.6543	0.6526	2.3483e-03	0.0000e+00
71	EMPTY	0.6738	0.6787	0.6741	1.1827e-03	0.0000e+00
72	EMPTY	0.6836	0.6885	0.6884	6.9754e-04	0.0000e+00
73	EMPTY	0.7031	0.7080	0.7050	2.4037e-03	0.0000e+00
74	EMPTY	0.7178	0.7227	0.7185	1.7263e-03	0.0000e+00
75	EMPTY	0.7324	0.7373	0.7370	1.1827e-03	0.0000e+00
76	EMPTY	0.7471	0.7520	0.7494	2.4621e-03	0.0000e+00
77	EMPTY	0.7666	0.7715	0.7673	1.7263e-03	0.0000e+00
78	EMPTY	0.7861	0.7910	0.7908	9.7615e-04	0.0000e+00
79	EMPTY	0.8105	0.8154	0.8106	6.9754e-04	0.0000e+00
80	PAN020136	72.8125	76.3220	74.2434	8.8283e-01	8.8958e-01
81	PAN050136	136.6240	138.1498	137.3589	3.7464e-01	1.7147e+00
82	PAN070136	100.0393	100.0393	100.0394	2.3125e-05	9.0523e-01
83	PAN080136	43.9968	45.0649	44.5309	2.3823e-01	8.7709e-01
84	PAN090136	42.7115	43.3982	43.0354	1.4818e-01	8.7663e-01
85	PAN100136	44.2594	45.4038	44.9507	2.3173e-01	8.7723e-01
86	PAN105136	32.1410	32.9803	32.6330	2.2838e-01	8.7382e-01
87	PAN110136	27.3066	27.7644	27.4857	9.5432e-02	8.7271e-01
88	PAN115136	22.3007	22.6822	22.4315	9.7256e-02	8.7181e-01
89	PAN120136	18.6342	19.1682	18.8895	1.0277e-01	8.7128e-01
90	PAN125136	19.0082	19.4660	19.2511	1.0753e-01	8.7133e-01
91	PAN130136	17.6716	18.0531	17.9020	9.2776e-02	8.7115e-01
92	PAN120048	40.7808	41.6963	41.2852	2.2342e-01	8.7610e-01
93	PAN130048	38.6270	39.7714	39.2560	2.4303e-01	8.7552e-01
94	PAN120224	43.6785	44.2125	43.8949	1.1481e-01	8.7689e-01
95	PAN130224	38.4421	38.9761	38.7410	1.2827e-01	8.7537e-01
96	PAN120312	42.6456	43.1034	42.8683	1.1104e-01	8.7658e-01
97	PAN130312	36.7650	37.3754	37.1278	1.3445e-01	8.7494e-01
98	PAB000136	40.3155	40.8190	40.5089	9.7226e-02	5.8878e-01
99	PAB100136	24.0138	24.2885	24.1671	5.4925e-02	5.8314e-01
100	PAB125136	19.7284	19.8658	19.7826	3.6993e-02	5.8210e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8967	40.9954	40.3103	1.8947e-01	7.5674e-01
102	PRV000001	19.6331	19.6331	19.6331	1.3490e-05	7.5160e-01
103	PSR000001	16.6025	16.7245	16.6946	5.3037e-02	7.5116e-01
104	PFM000001	104.6272	106.6414	105.4138	4.2939e-01	5.6520e-01
105	PAN000136	586.3162	593.6404	589.4739	1.3836e+00	5.1360e+00
106	PFM000002	27.3191	27.3191	27.3191	7.7085e-06	2.1134e-01
107	EMPTY	0.0049	0.0098	0.0078	2.4247e-03	0.0000e+00
108	EMPTY	-10.0000	2.6221	-5.6899	3.5431e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9754e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.5625	101.9531	101.6940	1.1546e-01	1.0141e+00
113	VPW000002	118.3556	118.9415	118.6346	1.1276e-01	1.0783e+00
114	VPW000003	146.4355	147.0215	146.7185	1.3846e-01	1.1963e+00
115	VPW000004	104.3870	104.9730	104.6820	1.3881e-01	1.0250e+00
116	VPW000005	138.9836	139.3743	139.1629	1.4284e-01	1.1633e+00
117	VPW000006	145.3388	145.7294	145.5381	1.0156e-01	1.1911e+00
118	IPW000001	543.0518	548.9088	546.3588	1.3922e+00	9.1782e+00
119	IPW000002	1310.2026	1316.0564	1313.1492	1.3868e+00	1.3162e+01
120	IPW000003	1331.5125	1335.4125	1334.0592	1.1401e+00	1.3292e+01
121	IPW000004	381.2632	382.2397	381.6616	3.1000e-01	3.6181e+00
122	IPW000005	253.6555	255.6084	254.7913	3.9093e-01	2.8375e+00
123	IPW000006	267.6626	269.1275	268.5796	4.0649e-01	2.9158e+00
124	EMPTY	-0.0293	-0.0146	-0.0239	4.0172e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0150	2.9629e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0195	3.3057e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0172	3.0070e-03	0.0000e+00
128	IHT000001	131.3439	133.2970	132.3523	4.5167e-01	4.3083e+00
129	IHT000002	130.7091	133.0529	131.8053	4.8961e-01	4.3067e+00
130	IHT000003	129.3870	131.7308	130.4553	4.9971e-01	4.3025e+00
131	IHT000004	131.7608	134.1046	132.7892	5.1640e-01	4.3097e+00
132	IHT000005	130.1007	132.2491	131.0094	5.4014e-01	4.3042e+00
133	IHT000006	125.6348	127.9785	126.6312	5.0152e-01	4.2911e+00
134	IHT000007	132.0425	134.1910	132.9672	4.8954e-01	4.3102e+00
135	IHT000008	130.6791	133.2182	131.7075	5.3007e-01	4.3064e+00
136	IHT000009	130.4049	132.9440	131.4013	5.7394e-01	4.3054e+00
137	IHT000010	130.9758	133.5149	132.0559	5.9549e-01	4.3074e+00
138	IHT000011	132.2303	134.3788	133.1511	5.1521e-01	4.3108e+00
139	IHT000012	131.2537	133.4022	132.1825	5.1756e-01	4.3078e+00
140	IHT000013	92.6983	94.4561	93.4516	4.5805e-01	4.2052e+00
141	IHT000014	128.2377	129.9955	129.0868	4.0570e-01	4.2984e+00
142	IHT000015	95.3425	97.1003	96.0560	4.4315e-01	4.2110e+00
143	IHT000016	89.2766	91.2297	90.0618	4.1334e-01	4.1978e+00
144	IHT000017	104.3232	106.8622	105.8100	6.7871e-01	4.2343e+00
145	IHT000018	106.8885	109.4276	108.3315	4.8798e-01	4.2407e+00
146	IHT000019	107.4557	109.7994	108.4322	4.5457e-01	4.2410e+00
147	IHT000020	105.4312	107.9703	106.8063	5.0737e-01	4.2368e+00
148	IHT000021	-3.4818	-0.3568	-1.7958	6.0685e-01	4.1000e+00
149	IHT000022	92.2476	94.5913	93.6068	4.9307e-01	4.2055e+00
150	IHT000023	105.0556	107.3993	106.3072	5.2274e-01	4.2356e+00
151	IHT000024	70.6167	73.1558	71.7168	5.3592e-01	4.1623e+00
152	IHT000025	102.7907	105.3298	103.9387	5.2382e-01	4.2297e+00
153	IHT000026	104.9128	107.6472	106.1246	5.3337e-01	4.2351e+00
154	IHT000027	89.9715	92.5105	90.8843	5.2648e-01	4.1995e+00
155	IHT000028	90.6025	92.9462	91.5870	4.6315e-01	4.2010e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.9007	108.0491	106.9410	4.4464e-01	4.2372e+00
157	IHT000030	108.6388	110.5919	109.6712	4.4036e-01	4.2441e+00
158	IHT000031	106.7007	108.6539	107.6374	4.5801e-01	4.2389e+00
159	IHT000032	107.1590	109.1121	108.2272	4.6340e-01	4.2404e+00
160	IHT000033	107.1665	109.1196	108.2028	4.5840e-01	4.2404e+00
161	IHT000034	94.1557	96.3041	95.1163	4.9288e-01	4.2089e+00
162	IHT000035	124.0610	126.4048	125.0934	4.7004e-01	4.2866e+00
163	IHT000036	92.8748	95.0233	93.7597	4.9007e-01	4.2058e+00

Velocity 1 = 0.002399 (ft/sec)
 Velocity 2 = 0.000100 (ft/sec)
 Pressure Drop = 0.001299 (psi)
 Tsat in = 0.009094 (deg F) Tsat out = 0.036407 (deg F)
 Phi inner = 0.007500 (kBtu/hr-ft2) Phi outer = 0.048500 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0628	0.0840
1	TRF000002	0.0508	0.0676
2	TFM000001	0.1025	0.1190
3	TIN000001	0.0964	0.1118
4	TRV000001	0.0277	0.0320
5	TSR000001	0.1448	0.1365
6	EMPTY	0.0468	0.1217
7	TAO050136	0.0793	0.0687
8	TAO070136	0.1125	0.0965
9	TAO080136	0.1138	0.0967
10	TAO090136	0.0524	0.0439
11	TAO100136	0.0488	0.0410
12	TAO105136	0.0682	0.0572
13	EMPTY	0.0014	0.0034
14	TAO115136	0.0497	0.0393
15	EMPTY	0.0630	0.1684
16	TAO125136	0.1101	0.0902
17	EMPTY	0.0192	0.0597
18	EMPTY	0.0439	0.1057
19	TAO130048	0.0854	0.0718
20	TAO120224	0.0579	0.0485
21	EMPTY	0.0231	0.0590
22	TAO120312	0.1243	0.1007
23	TAO130312	0.0752	0.0627
24	EMPTY	0.0256	0.0652
25	TRT070000	0.1016	0.0865
26	TRT100000	0.0933	0.0746
27	TRT120000	0.0752	0.0610
28	TRT125000	0.0609	0.0487
29	EMPTY	0.0089	0.0223
30	EMPTY	0.0866	0.2180
31	TAF050136	0.0345	0.0367
32	TAF070136	0.1280	0.1323
33	TAF080136	0.0594	0.0608
34	TAF090136	0.0972	0.0987
35	TAF100136	0.0385	0.0385
36	TAF105136	0.0873	0.0862
37	TAF110136	0.0713	0.0698
38	TAF115136	0.0301	0.0291
39	TAF120136	0.0445	0.0427
40	TAF125136	0.0274	0.0261
41	TAF130136	0.0330	0.0312
42	TAF120048	0.1014	0.0953
43	TAF130048	0.1000	0.0934
44	TAF120224	0.0869	0.0833
45	TAF130224	0.0464	0.0442

#	Name	Abs Diff	%Diff
46	EMPTY	0.0205	0.0541
47	EMPTY	0.0149	0.0381
48	TAI130048	0.0824	0.0657
49	TAI130136	0.0281	0.0228
50	TAI130224	0.0310	0.0252
51	TAI130312	0.0489	0.0414
52	TRR130000	0.0809	0.0667
53	TSI000001	0.0572	0.1352
54	TSI000002	0.2013	0.2628
55	TSO000001	0.0448	0.1084
56	TSO000002	0.0217	0.0455
57	TAF020136	0.0390	0.0435
58	EMPTY	0.0206	0.0478
59	TAF130312	0.0497	0.0463
60	EMPTY	0.0006	0.0628
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0006	0.0614
63	EMPTY	0.0004	0.0404
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0000	0.0000
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0002	0.0323
69	EMPTY	0.0012	0.1879
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0002	0.0297
72	EMPTY	0.0001	0.0145
73	EMPTY	0.0002	0.0284
74	EMPTY	0.0003	0.0418
75	EMPTY	0.0001	0.0136
76	EMPTY	0.0000	0.0000
77	EMPTY	0.0001	0.0130
78	EMPTY	0.0001	0.0126
79	EMPTY	0.0002	0.0247
80	PAN020136	0.1233	0.1663
81	PAN050136	0.1440	0.1047
82	PAN070136	0.0000	0.0000
83	PAN080136	0.0641	0.1441
84	PAN090136	0.0042	0.0098
85	PAN100136	0.0579	0.1286
86	PAN105136	0.0070	0.0214
87	PAN110136	0.0040	0.0145
88	PAN115136	0.0477	0.2122
89	PAN120136	0.0005	0.0026
90	PAN125136	0.0150	0.0779
91	PAN130136	0.0107	0.0597
92	PAN120048	0.0296	0.0716
93	PAN130048	0.0530	0.1348
94	PAN120224	0.0476	0.1083
95	PAN130224	0.0001	0.0003
96	PAN120312	0.0060	0.0140
97	PAN130312	0.0263	0.0708
98	PAB000136	0.0062	0.0153
99	PAB100136	0.0134	0.0554
100	PAB125136	0.0136	0.0687

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1357	0.3355
102	PRV000001	0.0317	0.1617
103	PSR000001	0.0018	0.0108
104	PFM000001	0.0175	0.0166
105	PAN000136	0.0359	0.0061
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.2987
108	EMPTY	0.2614	4.8153
109	EMPTY	0.0001	2.0408
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.0026	0.0026
113	VPW000002	0.0179	0.0151
114	VPW000003	0.0095	0.0065
115	VPW000004	0.0410	0.0392
116	VPW000005	0.0042	0.0030
117	VPW000006	0.0196	0.0135
118	IPW000001	0.6757	0.1235
119	IPW000002	0.5273	0.0402
120	IPW000003	0.2220	0.0166
121	IPW000004	0.8710	0.2277
122	IPW000005	0.2409	0.0945
123	IPW000006	0.0207	0.0077
124	EMPTY	0.0010	4.3668
125	EMPTY	0.0005	3.4483
126	EMPTY	0.0006	2.9851
127	EMPTY	0.0005	2.8249
128	IHT000001	0.1674	0.1263
129	IHT000002	0.0835	0.0633
130	IHT000003	0.1388	0.1063
131	IHT000004	0.1903	0.1431
132	IHT000005	0.1967	0.1499
133	IHT000006	0.1559	0.1230
134	IHT000007	0.1651	0.1240
135	IHT000008	0.1318	0.1000
136	IHT000009	0.1481	0.1126
137	IHT000010	0.1114	0.0844
138	IHT000011	0.2762	0.2079
139	IHT000012	0.2217	0.1680
140	IHT000013	0.2104	0.2256
141	IHT000014	0.2787	0.2164
142	IHT000015	0.2213	0.2309
143	IHT000016	0.1875	0.2086
144	IHT000017	0.7827	0.7343
145	IHT000018	0.0063	0.0058
146	IHT000019	0.2890	0.2658
147	IHT000020	0.2889	0.2698
148	IHT000021	0.3726	26.1804
149	IHT000022	0.2931	0.3121
150	IHT000023	0.2445	0.2295
151	IHT000024	0.2515	0.3495
152	IHT000025	0.2700	0.2591
153	IHT000026	0.2610	0.2453
154	IHT000027	0.2630	0.2885
155	IHT000028	0.2147	0.2339

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2292	0.2139
157	IHT000030	0.2801	0.2547
158	IHT000031	0.2664	0.2469
159	IHT000032	0.2951	0.2719
160	IHT000033	0.2723	0.2510
161	IHT000034	0.1136	0.1193
162	IHT000035	0.1122	0.0896
163	IHT000036	0.1386	0.1476

Velocity 1 = 19.8354 (ft/sec) (+/- 3.4949 %)
 Velocity 2 = 13.2653 (ft/sec) (+/- 3.4866 %)
 Pressure drop = 10.2419 (psi)
 Tsat in = 268.0536 (deg F) Tsat out = 251.2193 (deg F)
 Phi inner = 100.5602 (kBtu/hr-ft2) (+/- 1.5698 %)
 Phi outer = 100.3141 (kBtu/hr-ft2) (+/- 1.5528 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4220	75.0599	74.7409	1.7841e-01	1.9000e+00
1	TRF000002	74.7191	75.3537	75.0702	1.2539e-01	1.9000e+00
2	TFM000001	86.1245	86.9631	86.5307	2.0171e-01	1.9002e+00
3	TIN000001	86.1984	86.7246	86.5310	1.4763e-01	1.9002e+00
4	TRV000001	86.5748	87.3084	86.9190	1.9160e-01	1.9002e+00
5	TSR000001	110.7434	111.9759	111.5771	2.8022e-01	1.9012e+00
6	EMPTY	37.9974	38.6870	38.3928	2.0262e-01	1.9010e+00
7	TAO050136	121.9149	122.5271	122.2861	1.5918e-01	1.9018e+00
8	TAO070136	123.2468	124.4750	123.8199	2.3116e-01	1.9020e+00
9	TAO080136	124.5956	125.3066	124.9690	1.7832e-01	1.9020e+00
10	TAO090136	126.4311	127.5492	127.0857	2.0856e-01	1.9022e+00
11	TAO100136	127.4320	128.1438	127.7492	1.5993e-01	1.9022e+00
12	TAO105136	127.3214	128.1360	127.6842	1.9847e-01	1.9022e+00
13	EMPTY	40.9819	41.4403	41.2845	1.1748e-01	1.9011e+00
14	TAO115136	134.6824	135.5951	135.1651	2.1925e-01	1.9029e+00
15	EMPTY	37.3074	37.5374	37.4408	1.1471e-01	1.9009e+00
16	TAO125136	130.7614	131.4706	131.1505	1.4945e-01	1.9025e+00
17	EMPTY	31.9235	32.3911	32.1480	6.6130e-02	1.9007e+00
18	EMPTY	41.4403	41.6693	41.5640	1.1533e-01	1.9012e+00
19	TAO130048	127.5268	128.1359	127.8886	1.4383e-01	1.9023e+00
20	TAO120224	127.6245	128.5396	128.1206	1.8446e-01	1.9023e+00
21	EMPTY	39.1464	39.3761	39.1556	4.5456e-02	1.9010e+00
22	TAO120312	132.4859	133.3981	132.9398	2.0706e-01	1.9027e+00
23	TAO130312	128.5063	129.1153	128.8436	1.2381e-01	1.9023e+00
24	EMPTY	38.9168	39.6057	39.3393	1.8763e-01	1.9010e+00
25	TRT070000	126.1689	127.0879	126.5643	1.8876e-01	1.9022e+00
26	TRT100000	134.3540	135.2635	134.8552	2.1492e-01	1.9028e+00
27	TRT120000	132.8558	133.5646	133.3457	1.7150e-01	1.9027e+00
28	TRT125000	134.5817	135.2885	134.9616	1.7814e-01	1.9028e+00
29	EMPTY	39.6057	40.0646	39.8673	1.2275e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6056	2.0215e-01	1.9011e+00
31	TAF050136	96.2737	97.2098	96.8021	2.0012e-01	1.9005e+00
32	TAF070136	99.6199	100.5511	100.1294	2.0034e-01	1.9006e+00
33	TAF080136	100.9643	101.6876	101.3740	1.8320e-01	1.9007e+00
34	TAF090136	102.0650	102.8946	102.5336	2.3700e-01	1.9007e+00
35	TAF100136	104.2522	104.9776	104.6046	1.7009e-01	1.9008e+00
36	TAF105136	105.5596	106.5875	106.1116	2.3435e-01	1.9009e+00
37	TAF110136	106.7299	107.4523	107.1139	1.6140e-01	1.9009e+00
38	TAF115136	108.4410	109.1611	108.8481	1.8255e-01	1.9010e+00
39	TAF120136	109.2491	109.9700	109.6529	1.7370e-01	1.9011e+00
40	TAF125136	110.4831	111.2029	110.8945	1.7602e-01	1.9011e+00
41	TAF130136	111.4216	112.0386	111.7511	1.5270e-01	1.9012e+00
42	TAF120048	111.9152	112.9481	112.4600	2.2010e-01	1.9012e+00
43	TAF130048	113.0638	113.6810	113.4792	1.3618e-01	1.9013e+00
44	TAF120224	109.4700	110.2938	109.8904	1.9272e-01	1.9011e+00
45	TAF130224	110.4695	111.1918	110.9068	1.6757e-01	1.9011e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9054	2.0777e-01	1.9010e+00
47	EMPTY	38.9168	39.1464	39.1281	6.2945e-02	1.9010e+00
48	TAI130048	134.2568	135.6728	135.0943	2.9390e-01	1.9029e+00
49	TAI130136	131.6538	132.5644	132.1638	2.1322e-01	1.9026e+00
50	TAI130224	131.5035	132.6199	132.0354	2.9897e-01	1.9026e+00
51	TAI130312	127.1122	128.1294	127.6411	2.1751e-01	1.9022e+00
52	TRR130000	111.2051	113.5630	112.354	6.0850e-01	1.9012e+00
53	TSI000001	41.8024	42.5639	42.1981	1.9003e-01	1.9005e+00
54	TSI000002	73.6965	76.2342	74.7967	6.6663e-01	1.9000e+00
55	TSO000001	40.5486	41.5323	41.1124	2.0772e-01	1.9006e+00
56	TSO000002	47.6102	48.3693	47.9571	2.0070e-01	1.9003e+00
57	TAF020136	90.4323	91.2738	90.9745	1.8421e-01	1.9003e+00
58	EMPTY	42.8139	43.5000	43.1341	2.3559e-01	1.9013e+00
59	TAF130312	113.8561	114.3702	114.0496	1.3061e-01	1.9013e+00
60	EMPTY	1.1133	1.1182	1.1136	1.1714e-03	0.0000e+00
61	EMPTY	1.1182	1.1279	1.1234	1.6624e-03	0.0000e+00
62	EMPTY	1.1279	1.1377	1.1327	1.2041e-03	0.0000e+00
63	EMPTY	1.1426	1.1475	1.1461	2.2146e-03	0.0000e+00
64	EMPTY	0.6152	0.6201	0.6200	6.9053e-04	0.0000e+00
65	EMPTY	0.6396	0.6396	0.6396	0.0000e+00	0.0000e+00
66	EMPTY	0.6494	0.6543	0.6540	1.1714e-03	0.0000e+00
67	EMPTY	0.6689	0.6689	0.6689	0.0000e+00	0.0000e+00
68	EMPTY	0.6787	0.6836	0.6828	1.8082e-03	0.0000e+00
69	EMPTY	0.6982	0.7031	0.6985	1.1714e-03	0.0000e+00
70	EMPTY	0.7129	0.7129	0.7129	0.0000e+00	0.0000e+00
71	EMPTY	0.7324	0.7422	0.7364	2.1364e-03	0.0000e+00
72	EMPTY	0.7471	0.7471	0.7471	0.0000e+00	0.0000e+00
73	EMPTY	0.7666	0.7666	0.7666	0.0000e+00	0.0000e+00
74	EMPTY	0.7764	0.7813	0.7795	2.3675e-03	0.0000e+00
75	EMPTY	0.7959	0.8008	0.7960	6.9053e-04	0.0000e+00
76	EMPTY	0.8057	0.8105	0.8100	1.6028e-03	0.0000e+00
77	EMPTY	0.8252	0.8301	0.8261	1.8950e-03	0.0000e+00
78	EMPTY	0.8447	0.8496	0.8493	1.1714e-03	0.0000e+00
79	EMPTY	0.8691	0.8740	0.8694	1.1714e-03	0.0000e+00
80	PAN020136	34.9707	37.5647	36.3257	6.7514e-01	8.7473e-01
81	PAN050136	64.9076	66.7387	65.9697	4.5720e-01	1.6881e+00
82	PAN070136	47.9306	50.2957	49.3313	4.8468e-01	8.7870e-01
83	PAN080136	20.4983	21.6427	21.1025	2.2802e-01	8.7160e-01
84	PAN090136	19.5182	20.2811	19.8340	1.9740e-01	8.7141e-01
85	PAN100136	23.2786	24.3467	23.8615	2.7734e-01	8.7204e-01
86	PAN105136	13.6779	14.8986	14.1937	3.0578e-01	8.7072e-01
87	PAN110136	13.6500	14.0315	13.8575	1.0794e-01	8.7069e-01
88	PAN115136	10.5515	11.0855	10.8231	1.2152e-01	8.7042e-01
89	PAN120136	8.5634	9.0211	8.7831	1.1183e-01	8.7028e-01
90	PAN125136	9.1663	9.7766	9.5005	1.3863e-01	8.7032e-01
91	PAN130136	7.9823	8.5163	8.1791	1.1748e-01	8.7024e-01
92	PAN120048	19.0370	20.7154	19.7450	3.4879e-01	8.7140e-01
93	PAN130048	18.3328	19.4009	18.9630	2.7565e-01	8.7129e-01
94	PAN120224	20.7140	21.3243	21.1031	1.5510e-01	8.7160e-01
95	PAN130224	18.0716	18.8345	18.4256	1.4522e-01	8.7122e-01
96	PAN120312	19.9863	20.8255	20.4257	1.6783e-01	8.7150e-01
97	PAN130312	17.2338	17.9967	17.6290	1.7281e-01	8.7112e-01
98	PAB000136	40.1782	40.8190	40.4620	1.4026e-01	5.8875e-01
99	PAB100136	32.2994	32.6198	32.4715	5.7428e-02	5.8565e-01
100	PAB125136	30.3486	30.4859	30.4007	3.0687e-02	5.8496e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.6526	40.9954	40.3508	2.4419e-01	7.5675e-01
102	PRV0000001	19.5111	19.6331	19.5892	5.9189e-02	7.5160e-01
103	PSR0000001	28.8095	28.8095	28.8095	5.7801e-06	7.5345e-01
104	PFM0000001	60.1326	61.8721	61.3685	3.8721e-01	5.2301e-01
105	PAN000136	275.4946	290.1431	283.5512	2.6010e+00	4.9708e+00
106	PFM0000002	27.3191	27.3191	27.3191	7.7069e-06	2.1134e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-4.4482	2.4219	-0.7922	1.6695e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0025	3.3073e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	101.3672	101.9531	101.6680	1.4875e-01	1.0140e+00
113	VPW0000002	118.3556	118.9415	118.6525	1.1327e-01	1.0784e+00
114	VPW0000003	146.4355	147.0215	146.7168	1.4314e-01	1.1963e+00
115	VPW0000004	104.3870	104.9730	104.6761	1.4358e-01	1.0250e+00
116	VPW0000005	138.7883	139.5696	139.1945	1.9266e-01	1.1634e+00
117	VPW0000006	145.1435	145.7294	145.5615	1.3675e-01	1.1912e+00
118	IPW0000001	545.0041	550.8611	547.8547	1.5383e+00	9.1838e+00
119	IPW0000002	1302.3975	1308.2513	1305.9491	1.5110e+00	1.3117e+01
120	IPW0000003	1327.6125	1335.4125	1331.5902	1.4183e+00	1.3277e+01
121	IPW0000004	379.7983	381.7514	380.7454	4.3461e-01	3.6121e+00
122	IPW0000005	253.1672	255.1202	254.2315	4.5938e-01	2.8344e+00
123	IPW0000006	267.6626	269.1275	268.3952	3.7239e-01	2.9147e+00
124	EMPTY	-0.0293	-0.0146	-0.0228	3.2133e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0159	2.5743e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0179	3.5030e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0167	2.6267e-03	0.0000e+00
128	IHT0000001	131.3439	133.8830	132.4572	5.5978e-01	4.3087e+00
129	IHT0000002	130.7091	133.0529	131.8497	5.1654e-01	4.3068e+00
130	IHT0000003	129.5823	131.9261	130.6683	5.5686e-01	4.3032e+00
131	IHT0000004	131.9561	134.2999	132.9912	5.3996e-01	4.3103e+00
132	IHT0000005	130.1007	132.6397	131.2334	5.5943e-01	4.3049e+00
133	IHT0000006	125.6348	127.9785	126.8223	5.5079e-01	4.2917e+00
134	IHT0000007	132.0425	134.1910	133.1362	5.0839e-01	4.3107e+00
135	IHT0000008	130.6791	133.2182	131.8862	5.1703e-01	4.3069e+00
136	IHT0000009	130.4049	132.7487	131.5806	5.2272e-01	4.3060e+00
137	IHT0000010	130.9758	132.9289	131.7531	5.0144e-01	4.3065e+00
138	IHT0000011	131.8397	133.7928	132.7538	4.6928e-01	4.3096e+00
139	IHT0000012	130.8631	133.0116	131.8280	4.6086e-01	4.3067e+00
140	IHT0000013	92.1124	94.0655	93.1006	4.6590e-01	4.2044e+00
141	IHT0000014	127.6517	129.8002	128.7495	4.6503e-01	4.2974e+00
142	IHT0000015	94.9519	97.1003	95.7840	5.1420e-01	4.2104e+00
143	IHT0000016	88.6907	90.8391	89.7844	4.9756e-01	4.1972e+00
144	IHT0000017	105.2997	108.2294	106.5654	5.8957e-01	4.2362e+00
145	IHT0000018	107.2791	109.4276	108.3729	5.4534e-01	4.2408e+00
146	IHT0000019	107.6510	109.9947	108.8423	5.1183e-01	4.2420e+00
147	IHT0000020	106.0171	108.1656	107.0405	4.7933e-01	4.2374e+00
148	IHT0000021	-2.7006	-0.1615	-1.4857	5.5844e-01	4.1000e+00
149	IHT0000022	92.8335	94.9820	93.7944	4.4088e-01	4.2059e+00
150	IHT0000023	105.6415	107.7899	106.5439	4.4097e-01	4.2362e+00
151	IHT0000024	71.0074	73.3511	71.8706	4.3600e-01	4.1625e+00
152	IHT0000025	103.3767	105.5251	104.1970	4.2315e-01	4.2303e+00
153	IHT0000026	105.4988	107.6472	106.4051	4.3362e-01	4.2358e+00
154	IHT0000027	89.9715	92.1199	91.0691	4.4798e-01	4.1999e+00
155	IHT0000028	90.7978	93.3368	91.7744	4.9756e-01	4.2015e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.4866	108.8304	107.1663	4.9006e-01	4.2377e+00
157	IHT000030	109.0294	111.7638	109.9122	5.1485e-01	4.2448e+00
158	IHT000031	107.0914	109.6304	107.8374	4.9707e-01	4.2394e+00
159	IHT000032	107.7449	109.8933	108.4403	5.0248e-01	4.2410e+00
160	IHT000033	107.7524	109.7055	108.3892	4.9569e-01	4.2409e+00
161	IHT000034	94.1557	96.3041	95.1284	4.5075e-01	4.2089e+00
162	IHT000035	124.2563	126.2095	125.1040	4.1500e-01	4.2866e+00
163	IHT000036	93.0701	94.8280	93.8006	3.5690e-01	4.2059e+00

Velocity 1 = 19.8585 (ft/sec) (+/- 3.4947 %)
Velocity 2 = 13.2653 (ft/sec) (+/- 3.4866 %)
Pressure drop = 10.2336 (psi)
Tsats in = 268.0457 (deg F) Tsats out = 251.2963 (deg F)
Phi inner = 100.4437 (kBtu/hr-ft2) (+/- 1.5701 %)
Phi outer = 100.4464 (kBtu/hr-ft2) (+/- 1.5521 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.4220	75.0599	74.7475	1.5710e-01	1.9000e+00
1	TRF0000002	74.9307	75.3537	75.0947	1.3141e-01	1.9000e+00
2	TFM0000001	86.2287	86.9631	86.5626	1.8247e-01	1.9002e+00
3	TIN0000001	86.3038	86.9346	86.5635	1.4248e-01	1.9002e+00
4	TRV0000001	86.6801	87.3084	87.0263	1.5298e-01	1.9002e+00
5	TSR0000001	111.2568	112.0776	111.7384	1.9335e-01	1.9012e+00
6	EMPTY	37.9974	38.9168	38.4665	2.4359e-01	1.9010e+00
7	TAO050136	122.0173	122.7302	122.2667	1.6632e-01	1.9018e+00
8	TAO070136	123.3486	124.2702	123.8044	1.8450e-01	1.9019e+00
9	TAO080136	124.7977	125.3066	124.9849	1.3184e-01	1.9020e+00
10	TAO090136	126.7361	127.5487	127.1156	1.6558e-01	1.9022e+00
11	TAO100136	127.4322	128.1432	127.8096	1.4519e-01	1.9023e+00
12	TAO105136	127.3219	128.0344	127.7165	1.7705e-01	1.9022e+00
13	EMPTY	40.9819	41.4403	41.2953	1.2974e-01	1.9011e+00
14	TAO115136	134.7838	135.6964	135.2101	2.1900e-01	1.9029e+00
15	EMPTY	37.3074	37.7675	37.4952	1.0153e-01	1.9009e+00
16	TAO125136	130.9643	131.4706	131.1914	1.2316e-01	1.9025e+00
17	EMPTY	31.9235	32.3911	32.1717	8.8097e-02	1.9007e+00
18	EMPTY	41.4403	41.6693	41.5899	1.1017e-01	1.9012e+00
19	TAO130048	127.5278	128.2378	127.8836	1.5658e-01	1.9023e+00
20	TAO120224	127.8279	128.5396	128.1556	1.8588e-01	1.9023e+00
21	EMPTY	39.1464	39.3761	39.1699	7.0231e-02	1.9010e+00
22	TAO120312	132.4857	133.3981	132.9614	1.8178e-01	1.9027e+00
23	TAO130312	128.7091	129.2171	128.8588	1.2458e-01	1.9023e+00
24	EMPTY	38.9168	39.6057	39.2730	1.6940e-01	1.9010e+00
25	TRT070000	126.1675	126.8830	126.5598	1.7248e-01	1.9022e+00
26	TRT100000	134.5558	135.2635	134.9313	1.9002e-01	1.9028e+00
27	TRT120000	133.0584	133.7668	133.3887	1.7253e-01	1.9027e+00
28	TRT125000	134.5832	135.4893	134.9734	1.8679e-01	1.9028e+00
29	EMPTY	39.6057	40.0646	39.8539	1.2248e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6900	2.0793e-01	1.9011e+00
31	TAF050136	96.4821	97.2098	96.7833	1.7649e-01	1.9005e+00
32	TAF070136	99.7241	100.4489	100.1167	1.7663e-01	1.9006e+00
33	TAF080136	101.0684	101.6876	101.3509	1.4865e-01	1.9007e+00
34	TAF090136	101.9618	102.9977	102.5199	2.8038e-01	1.9007e+00
35	TAF100136	104.3555	104.8741	104.6181	1.6929e-01	1.9008e+00
36	TAF105136	105.7665	106.6906	106.0979	2.1180e-01	1.9009e+00
37	TAF110136	106.7311	107.4523	107.0883	1.3968e-01	1.9009e+00
38	TAF115136	108.4405	109.2640	108.8586	1.9424e-01	1.9010e+00
39	TAF120136	109.4549	109.9700	109.6570	1.4385e-01	1.9011e+00
40	TAF125136	110.6892	111.2029	110.9238	1.4960e-01	1.9011e+00
41	TAF130136	111.4224	112.1418	111.7452	1.4080e-01	1.9012e+00
42	TAF120048	111.9139	112.8442	112.4752	2.4516e-01	1.9012e+00
43	TAF130048	113.2695	113.6810	113.4814	1.2488e-01	1.9013e+00
44	TAF120224	109.5733	110.1915	109.8990	1.7627e-01	1.9011e+00
45	TAF130224	110.6756	111.1918	110.9494	1.3417e-01	1.9011e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.8707	1.3218e-01	1.9010e+00
47	EMPTY	38.9168	39.1464	39.1230	7.0247e-02	1.9010e+00
48	TAI130048	134.4592	135.6723	135.0846	2.5161e-01	1.9029e+00
49	TAI130136	131.8561	132.5644	132.1825	1.8020e-01	1.9026e+00
50	TAI130224	131.4020	132.7215	132.1684	3.1562e-01	1.9026e+00
51	TAI130312	127.1122	128.0279	127.5855	2.2416e-01	1.9022e+00
52	TRR130000	110.9999	112.8460	111.9103	5.0007e-01	1.9012e+00
53	TSI000001	41.8024	42.5639	42.2062	1.8435e-01	1.9005e+00
54	TSI000002	73.6965	75.3891	74.5689	3.6609e-01	1.9000e+00
55	TSO000001	40.7668	41.4230	41.1014	1.8863e-01	1.9006e+00
56	TSO000002	47.6103	48.3687	48.0084	1.8820e-01	1.9003e+00
57	TAF020136	90.5372	91.4826	90.9747	1.8742e-01	1.9003e+00
58	EMPTY	42.8139	43.5000	43.2060	2.5138e-01	1.9013e+00
59	TAF130312	113.7546	114.3702	114.0493	1.6313e-01	1.9013e+00
60	EMPTY	1.1133	1.1182	1.1137	1.3508e-03	0.0000e+00
61	EMPTY	1.1230	1.1279	1.1235	1.4934e-03	0.0000e+00
62	EMPTY	1.1328	1.1377	1.1329	6.9754e-04	0.0000e+00
63	EMPTY	1.1426	1.1475	1.1461	2.2287e-03	0.0000e+00
64	EMPTY	0.6201	0.6201	0.6201	0.0000e+00	0.0000e+00
65	EMPTY	0.6396	0.6396	0.6396	0.0000e+00	0.0000e+00
66	EMPTY	0.6494	0.6543	0.6542	6.9754e-04	0.0000e+00
67	EMPTY	0.6689	0.6738	0.6694	1.4934e-03	0.0000e+00
68	EMPTY	0.6787	0.6836	0.6833	1.1827e-03	0.0000e+00
69	EMPTY	0.6982	0.7031	0.6985	1.1827e-03	0.0000e+00
70	EMPTY	0.7129	0.7178	0.7132	1.1827e-03	0.0000e+00
71	EMPTY	0.7324	0.7373	0.7369	1.3508e-03	0.0000e+00
72	EMPTY	0.7471	0.7520	0.7472	6.9754e-04	0.0000e+00
73	EMPTY	0.7666	0.7666	0.7666	0.0000e+00	0.0000e+00
74	EMPTY	0.7764	0.7813	0.7807	1.6172e-03	0.0000e+00
75	EMPTY	0.7910	0.7959	0.7958	6.9754e-04	0.0000e+00
76	EMPTY	0.8057	0.8105	0.8097	1.8234e-03	0.0000e+00
77	EMPTY	0.8252	0.8301	0.8259	1.7263e-03	0.0000e+00
78	EMPTY	0.8447	0.8545	0.8497	1.2165e-03	0.0000e+00
79	EMPTY	0.8691	0.8691	0.8691	0.0000e+00	0.0000e+00
80	PAN020136	34.9707	37.7173	36.4872	6.2053e-01	8.7477e-01
81	PAN050136	64.7551	67.0439	65.9291	4.6220e-01	1.6881e+00
82	PAN070136	48.3883	50.2194	49.3023	3.7907e-01	8.7869e-01
83	PAN080136	20.4220	21.9479	21.0495	2.7608e-01	8.7159e-01
84	PAN090136	19.2130	20.3574	19.7828	2.2574e-01	8.7140e-01
85	PAN100136	22.9734	24.3467	23.8500	2.7733e-01	8.7204e-01
86	PAN105136	13.5253	14.5934	14.1481	2.6491e-01	8.7072e-01
87	PAN110136	13.5737	14.1078	13.8587	1.2041e-01	8.7069e-01
88	PAN115136	10.6277	11.1618	10.8006	1.2726e-01	8.7042e-01
89	PAN120136	8.4871	8.9448	8.7331	1.1151e-01	8.7027e-01
90	PAN125136	9.3189	9.7003	9.5042	1.1338e-01	8.7032e-01
91	PAN130136	7.9060	8.3637	8.1738	1.1562e-01	8.7024e-01
92	PAN120048	18.8844	20.2577	19.6800	2.9218e-01	8.7139e-01
93	PAN130048	18.1802	19.4772	18.9307	2.9645e-01	8.7129e-01
94	PAN120224	20.6377	21.4006	21.0565	1.6043e-01	8.7159e-01
95	PAN130224	18.1479	18.6819	18.4484	1.2303e-01	8.7122e-01
96	PAN120312	20.0626	20.6729	20.3880	1.3194e-01	8.7149e-01
97	PAN130312	17.2338	17.9204	17.6433	1.5627e-01	8.7112e-01
98	PAB000136	40.1324	40.7275	40.4566	1.1960e-01	5.8875e-01
99	PAB100136	32.3451	32.6198	32.4843	5.9801e-02	5.8566e-01
100	PAB125136	30.3486	30.5317	30.4410	4.0179e-02	5.8497e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7747	40.7512	40.2106	2.3507e-01	7.5671e-01
102	PRV000001	19.5111	19.6331	19.6082	4.9708e-02	7.5160e-01
103	PSR000001	28.8095	28.9316	28.8120	1.7439e-02	7.5345e-01
104	PFM000001	60.7734	62.0552	61.5115	3.3399e-01	5.2311e-01
105	PAN000136	278.6990	288.7698	283.3233	2.3955e+00	4.9707e+00
106	PFM000002	27.3191	27.3191	27.3191	7.7085e-06	2.1134e-01
107	EMPTY	0.0049	0.0098	0.0051	9.7615e-04	0.0000e+00
108	EMPTY	-10.0000	9.9951	-0.8178	3.2171e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0030	2.9594e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.5625	102.1484	101.6781	1.1906e-01	1.0140e+00
113	VPW000002	118.3556	118.9415	118.6904	1.1960e-01	1.0785e+00
114	VPW000003	146.4355	147.0215	146.7504	1.2491e-01	1.1964e+00
115	VPW000004	104.5823	104.9730	104.7179	1.2095e-01	1.0251e+00
116	VPW000005	138.9836	139.5696	139.2785	1.3881e-01	1.1638e+00
117	VPW000006	145.1435	145.7294	145.4823	1.4797e-01	1.1908e+00
118	IPW000001	546.9564	552.8135	549.7853	1.4403e+00	9.1910e+00
119	IPW000002	1304.3488	1310.2026	1306.3002	1.4903e+00	1.3119e+01
120	IPW000003	1325.6625	1331.5125	1329.7614	1.3928e+00	1.3265e+01
121	IPW000004	380.2866	381.7514	380.8843	3.6301e-01	3.6130e+00
122	IPW000005	254.1437	255.1202	254.4625	3.5307e-01	2.8357e+00
123	IPW000006	267.1743	269.1275	268.2108	4.5273e-01	2.9137e+00
124	EMPTY	-0.0293	-0.0146	-0.0222	3.4615e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0153	2.6370e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0191	3.1260e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0173	3.0003e-03	0.0000e+00
128	IHT000001	131.3439	133.4923	132.4520	5.0961e-01	4.3086e+00
129	IHT000002	130.9044	132.8576	131.8850	4.5716e-01	4.3069e+00
130	IHT000003	129.5823	131.7308	130.6825	4.6782e-01	4.3032e+00
131	IHT000004	131.7608	134.2999	133.0044	5.1474e-01	4.3103e+00
132	IHT000005	130.1007	132.2491	131.2167	4.7508e-01	4.3049e+00
133	IHT000006	125.8301	127.9785	126.8266	4.9514e-01	4.2917e+00
134	IHT000007	132.0425	134.1910	133.1665	4.9077e-01	4.3108e+00
135	IHT000008	130.8744	132.8275	131.9228	4.5228e-01	4.3070e+00
136	IHT000009	130.4049	132.7487	131.6405	5.2345e-01	4.3061e+00
137	IHT000010	130.5852	132.7336	131.6534	4.6682e-01	4.3062e+00
138	IHT000011	131.8397	133.5975	132.6130	4.1996e-01	4.3091e+00
139	IHT000012	130.8631	132.8162	131.7281	4.9314e-01	4.3064e+00
140	IHT000013	92.1124	94.0655	93.0929	4.3762e-01	4.2044e+00
141	IHT000014	127.6517	129.6049	128.7559	4.2296e-01	4.2974e+00
142	IHT000015	94.5613	96.9050	95.6933	4.0654e-01	4.2102e+00
143	IHT000016	88.6907	90.6438	89.7151	3.8762e-01	4.1970e+00
144	IHT000017	104.5185	106.8622	105.6864	5.7842e-01	4.2340e+00
145	IHT000018	107.0838	109.4276	108.1521	5.6537e-01	4.2402e+00
146	IHT000019	107.6510	109.7994	108.6434	4.3094e-01	4.2415e+00
147	IHT000020	106.0171	107.9703	106.8900	4.2023e-01	4.2370e+00
148	IHT000021	-2.8959	-0.7474	-1.6762	4.6413e-01	4.1000e+00
149	IHT000022	92.8335	94.3960	93.6347	3.8909e-01	4.2056e+00
150	IHT000023	105.6415	107.2040	106.3989	3.5353e-01	4.2358e+00
151	IHT000024	71.0074	72.7652	71.7567	3.8104e-01	4.1623e+00
152	IHT000025	103.3767	105.1345	104.1180	3.5877e-01	4.2301e+00
153	IHT000026	105.6941	107.0613	106.3120	3.5958e-01	4.2356e+00
154	IHT000027	90.3621	91.9246	90.9839	4.2131e-01	4.1997e+00
155	IHT000028	90.7978	92.9462	91.6349	5.1828e-01	4.2012e+00

AIM

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1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910

301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
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Test: Feb01_02		sum2	Date: Thu Feb 1 11:34:49 1990		Page: 4	
#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2913	108.4398	107.0606	5.2802e-01	4.2375e+00
157	IHT000030	109.0294	110.9826	109.7828	5.0587e-01	4.2444e+00
158	IHT000031	106.8960	109.0445	107.7450	4.9403e-01	4.2392e+00
159	IHT000032	107.5496	109.5027	108.3269	4.7757e-01	4.2407e+00
160	IHT000033	107.5571	109.5102	108.3105	4.9795e-01	4.2407e+00
161	IHT000034	94.3510	96.4994	95.1682	4.7953e-01	4.2090e+00
162	IHT000035	124.2563	126.6001	125.1970	5.0220e-01	4.2869e+00
163	IHT000036	92.8748	95.0233	93.8036	4.7093e-01	4.2059e+00

Velocity 1 = 0.023100 (ft/sec)
 Velocity 2 = 0.000000 (ft/sec)
 Pressure Drop = 0.008301 (psi)
 Tsat in = 0.007904 (deg F) Tsat out = 0.076996 (deg F)
 Phi inner = 0.116501 (kBtu/hr-ft2) Phi outer = 0.132301 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0066	0.0088
1	TRF000002	0.0245	0.0326
2	TFM000001	0.0319	0.0369
3	TIN000001	0.0325	0.0376
4	TRV000001	0.1073	0.1234
5	TSR000001	0.1613	0.1446
6	EMPTY	0.0737	0.1920
7	TAO050136	0.0194	0.0159
8	TAO070136	0.0155	0.0125
9	TAO080136	0.0159	0.0127
10	TAO090136	0.0299	0.0235
11	TAO100136	0.0604	0.0473
12	TAO105136	0.0323	0.0253
13	EMPTY	0.0108	0.0262
14	TAO115136	0.0450	0.0333
15	EMPTY	0.0544	0.1453
16	TAO125136	0.0409	0.0312
17	EMPTY	0.0237	0.0737
18	EMPTY	0.0259	0.0623
19	TAO130048	0.0050	0.0039
20	TAO120224	0.0350	0.0273
21	EMPTY	0.0143	0.0365
22	TAO120312	0.0216	0.0162
23	TAO130312	0.0152	0.0118
24	EMPTY	0.0663	0.1685
25	TRT070000	0.0045	0.0036
26	TRT100000	0.0761	0.0564
27	TRT120000	0.0430	0.0322
28	TRT125000	0.0118	0.0088
29	EMPTY	0.0134	0.0336
30	EMPTY	0.0844	0.2131
31	TAF050136	0.0188	0.0194
32	TAF070136	0.0127	0.0127
33	TAF080136	0.0231	0.0228
34	TAF090136	0.0137	0.0134
35	TAF100136	0.0135	0.0129
36	TAF105136	0.0137	0.0129
37	TAF110136	0.0256	0.0239
38	TAF115136	0.0105	0.0096
39	TAF120136	0.0041	0.0037
40	TAF125136	0.0293	0.0264
41	TAF130136	0.0059	0.0053
42	TAF120048	0.0152	0.0135
43	TAF130048	0.0022	0.0019
44	TAF120224	0.0086	0.0078
45	TAF130224	0.0426	0.0384

#	Name	Abs Diff	%Diff
46	EMPTY	0.0347	0.0915
47	EMPTY	0.0051	0.0130
48	TAI130048	0.0097	0.0072
49	TAI130136	0.0187	0.0141
50	TAI130224	0.1330	0.1007
51	TAI130312	0.0556	0.0436
52	TRR130000	0.4431	0.3944
53	TSI000001	0.0081	0.0192
54	TSI000002	0.2278	0.3046
55	TSO000001	0.0110	0.0268
56	TSO000002	0.0513	0.1070
57	TAF020136	0.0002	0.0002
58	EMPTY	0.0719	0.1667
59	TAF130312	0.0003	0.0003
60	EMPTY	0.0001	0.0090
61	EMPTY	0.0001	0.0089
62	EMPTY	0.0002	0.0177
63	EMPTY	0.0000	0.0000
64	EMPTY	0.0001	0.0161
65	EMPTY	0.0000	0.0000
66	EMPTY	0.0002	0.0306
67	EMPTY	0.0005	0.0747
68	EMPTY	0.0005	0.0732
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0003	0.0421
71	EMPTY	0.0005	0.0679
72	EMPTY	0.0001	0.0134
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0012	0.1539
75	EMPTY	0.0002	0.0251
76	EMPTY	0.0003	0.0370
77	EMPTY	0.0002	0.0242
78	EMPTY	0.0004	0.0471
79	EMPTY	0.0003	0.0345
80	PAN020136	0.1615	0.4446
81	PAN050136	0.0406	0.0615
82	PAN070136	0.0290	0.0588
83	PAN080136	0.0530	0.2512
84	PAN090136	0.0512	0.2581
85	PAN100136	0.0115	0.0482
86	PAN105136	0.0456	0.3213
87	PAN110136	0.0012	0.0087
88	PAN115136	0.0225	0.2079
89	PAN120136	0.0500	0.5693
90	PAN125136	0.0037	0.0389
91	PAN130136	0.0053	0.0648
92	PAN120048	0.0650	0.3292
93	PAN130048	0.0323	0.1703
94	PAN120224	0.0466	0.2208
95	PAN130224	0.0228	0.1237
96	PAN120312	0.0377	0.1846
97	PAN130312	0.0143	0.0811
98	PAB000136	0.0054	0.0133
99	PAB100136	0.0128	0.0394
100	PAB125136	0.0403	0.1326

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1402	0.3474
102	PRV000001	0.0190	0.0970
103	PSR000001	0.0025	0.0087
104	PFM000001	0.1430	0.2330
105	PAN000136	0.2279	0.0804
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	4.0816
108	EMPTY	0.0256	3.2315
109	EMPTY	0.0005	20.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0101	0.0099
113	VPW000002	0.0379	0.0319
114	VPW000003	0.0336	0.0229
115	VPW000004	0.0418	0.0399
116	VPW000005	0.0840	0.0603
117	VPW000006	0.0792	0.0544
118	IPW000001	1.9206	0.3524
119	IPW000002	0.3511	0.0269
120	IPW000003	1.8289	0.1373
121	IPW000004	0.1389	0.0365
122	IPW000005	0.2310	0.0909
123	IPW000006	0.1844	0.0687
124	EMPTY	0.0006	2.6316
125	EMPTY	0.0006	3.7736
126	EMPTY	0.0012	6.7039
127	EMPTY	0.0006	3.5928
128	IHT000001	0.0052	0.0039
129	IHT000002	0.0353	0.0268
130	IHT000003	0.0142	0.0109
131	IHT000004	0.0132	0.0099
132	IHT000005	0.0167	0.0127
133	IHT000006	0.0043	0.0034
134	IHT000007	0.0303	0.0228
135	IHT000008	0.0366	0.0278
136	IHT000009	0.0599	0.0455
137	IHT000010	0.0997	0.0757
138	IHT000011	0.1408	0.1061
139	IHT000012	0.0999	0.0758
140	IHT000013	0.0077	0.0083
141	IHT000014	0.0064	0.0050
142	IHT000015	0.0907	0.0947
143	IHT000016	0.0693	0.0772
144	IHT000017	0.8790	0.8248
145	IHT000018	0.2208	0.2037
146	IHT000019	0.1989	0.1827
147	IHT000020	0.1505	0.1406
148	IHT000021	0.1905	12.8222
149	IHT000022	0.1597	0.1703
150	IHT000023	0.1450	0.1361
151	IHT000024	0.1139	0.1585
152	IHT000025	0.0790	0.0758
153	IHT000026	0.0931	0.0875
154	IHT000027	0.0852	0.0936
155	IHT000028	0.1395	0.1520

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1057	0.0986
157	IHT000030	0.1294	0.1177
158	IHT000031	0.0924	0.0857
159	IHT000032	0.1134	0.1046
160	IHT000033	0.0787	0.0726
161	IHT000034	0.0398	0.0418
162	IHT000035	0.0930	0.0743
163	IHT000036	0.0030	0.0032

Velocity 1 = 14.0382 (ft/sec) (+/- 3.5658 %)
 Velocity 2 = 13.2655 (ft/sec) (+/- 3.4866 %)
 Pressure drop = 2.5021 (psi)
 Tsat in = 268.1926 (deg F) Tsat out = 264.3761 (deg F)
 Phi inner = 99.2324 (kBtu/hr-ft2) (+/- 1.5732 %)
 Phi outer = 100.8024 (kBtu/hr-ft2) (+/- 1.5498 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6347	75.2724	74.9238	1.5343e-01	1.9000e+00
1	TRF000002	75.1422	75.3537	75.2564	1.0647e-01	1.9000e+00
2	TFM000001	86.2293	87.2772	86.7805	2.5918e-01	1.9002e+00
3	TIN000001	86.5139	87.1442	86.8020	1.3049e-01	1.9002e+00
4	TRV000001	86.7849	87.6235	87.2941	2.0182e-01	1.9002e+00
5	TSR000001	116.6787	121.7735	119.8454	1.6659e+00	1.9017e+00
6	EMPTY	37.9974	38.9168	38.4296	2.3048e-01	1.9010e+00
7	TAO050136	131.8367	132.5443	132.3038	1.5808e-01	1.9026e+00
8	TAO070136	135.0837	135.9965	135.5035	2.1784e-01	1.9029e+00
9	TAO080136	136.0951	136.6988	136.4029	1.4599e-01	1.9030e+00
10	TAO090136	141.8811	142.5845	142.3013	1.5550e-01	1.9035e+00
11	TAO100136	144.3875	145.0896	144.7545	1.7035e-01	1.9038e+00
12	TAO105136	144.9179	145.6211	145.2653	1.6002e-01	1.9038e+00
13	EMPTY	40.9819	41.4403	41.2799	1.2465e-01	1.9011e+00
14	TAO115136	149.0228	149.7257	149.3867	1.9856e-01	1.9042e+00
15	EMPTY	37.5374	37.9974	37.7169	1.0688e-01	1.9010e+00
16	TAO125136	145.7167	146.4169	146.1030	1.5265e-01	1.9039e+00
17	EMPTY	31.6897	32.6248	32.1947	2.0782e-01	1.9007e+00
18	EMPTY	41.4403	41.6693	41.5044	1.0390e-01	1.9012e+00
19	TAO130048	143.1208	143.7232	143.4279	1.6386e-01	1.9036e+00
20	TAO120224	142.4822	143.2868	142.8142	1.8530e-01	1.9036e+00
21	EMPTY	38.9168	39.6057	39.1924	1.2275e-01	1.9010e+00
22	TAO120312	149.1140	150.2152	149.5847	2.4377e-01	1.9043e+00
23	TAO130312	144.2161	144.9178	144.5587	1.5037e-01	1.9037e+00
24	EMPTY	38.9168	39.6057	39.2383	1.9683e-01	1.9010e+00
25	TRT070000	139.2225	140.0329	139.6338	1.8678e-01	1.9033e+00
26	TRT100000	151.1015	151.6007	151.3393	1.3936e-01	1.9045e+00
27	TRT120000	149.6424	150.3421	150.0843	1.6038e-01	1.9043e+00
28	TRT125000	151.2539	151.9505	151.5947	1.8081e-01	1.9045e+00
29	EMPTY	39.6057	40.0646	39.8306	1.1812e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6332	2.0552e-01	1.9011e+00
31	TAF050136	100.8328	101.4539	101.1288	1.7121e-01	1.9007e+00
32	TAF070136	105.0824	105.9059	105.5783	2.1076e-01	1.9009e+00
33	TAF080136	106.9219	107.6417	107.3151	1.8881e-01	1.9009e+00
34	TAF090136	108.5755	109.6060	109.1175	2.4084e-01	1.9010e+00
35	TAF100136	111.6938	112.4150	112.0545	1.7321e-01	1.9012e+00
36	TAF105136	113.7312	114.6501	114.1940	2.3329e-01	1.9013e+00
37	TAF110136	115.2314	115.9478	115.6471	1.8182e-01	1.9014e+00
38	TAF115136	117.5658	118.3834	117.9848	1.9518e-01	1.9016e+00
39	TAF120136	118.9526	119.4634	119.1677	1.2605e-01	1.9016e+00
40	TAF125136	120.2634	121.3795	120.8544	2.7127e-01	1.9017e+00
41	TAF130136	121.7446	122.3571	122.0040	1.4010e-01	1.9018e+00
42	TAF120048	123.1535	123.9747	123.5578	2.1074e-01	1.9019e+00
43	TAF130048	124.8231	125.4340	125.1061	1.2735e-01	1.9020e+00
44	TAF120224	119.3110	120.4347	119.8155	2.1782e-01	1.9017e+00
45	TAF130224	121.0826	121.6970	121.3468	1.6692e-01	1.9018e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9146	1.9020e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1556	9.2329e-02	1.9010e+00
48	TAI130048	151.3425	151.7425	151.5246	1.0812e-01	1.9045e+00
49	TAI130136	147.0063	147.6071	147.4004	1.1692e-01	1.9040e+00
50	TAI130224	146.8505	147.5528	147.1736	1.5999e-01	1.9040e+00
51	TAI130312	145.4034	145.9053	145.7387	1.2599e-01	1.9039e+00
52	TRR130000	111.7182	113.4612	112.7088	3.5424e-01	1.9012e+00
53	TSI000001	42.0204	42.6726	42.4094	1.6603e-01	1.9005e+00
54	TSI000002	84.7577	85.5975	85.1758	2.6429e-01	1.9002e+00
55	TSO000001	41.2040	41.8600	41.6174	1.6276e-01	1.9005e+00
56	TSO000002	48.5852	49.4521	49.0035	1.9452e-01	1.9003e+00
57	TAF020136	92.4302	93.1657	92.8690	1.7570e-01	1.9004e+00
58	EMPTY	42.5851	43.5000	43.1112	2.4989e-01	1.9013e+00
59	TAF130312	126.1005	126.9132	126.4155	1.8506e-01	1.9021e+00
60	EMPTY	1.3965	1.4063	1.4021	1.9754e-03	0.0000e+00
61	EMPTY	1.4063	1.4160	1.4101	2.2689e-03	0.0000e+00
62	EMPTY	1.4160	1.4209	1.4169	1.8950e-03	0.0000e+00
63	EMPTY	1.4258	1.4307	1.4283	2.4642e-03	0.0000e+00
64	EMPTY	0.7422	0.7471	0.7431	1.8950e-03	0.0000e+00
65	EMPTY	0.7617	0.7617	0.7617	0.0000e+00	0.0000e+00
66	EMPTY	0.7764	0.7764	0.7764	0.0000e+00	0.0000e+00
67	EMPTY	0.7910	0.7959	0.7911	6.9053e-04	0.0000e+00
68	EMPTY	0.8008	0.8057	0.8028	2.4344e-03	0.0000e+00
69	EMPTY	0.8154	0.8203	0.8200	1.1714e-03	0.0000e+00
70	EMPTY	0.8301	0.8350	0.8333	2.3365e-03	0.0000e+00
71	EMPTY	0.8545	0.8545	0.8545	0.0000e+00	0.0000e+00
72	EMPTY	0.8643	0.8691	0.8651	1.8950e-03	0.0000e+00
73	EMPTY	0.8789	0.8887	0.8838	9.8648e-04	0.0000e+00
74	EMPTY	0.8936	0.8984	0.8968	2.3365e-03	0.0000e+00
75	EMPTY	0.9082	0.9131	0.9123	1.8082e-03	0.0000e+00
76	EMPTY	0.9229	0.9277	0.9231	1.1714e-03	0.0000e+00
77	EMPTY	0.9375	0.9424	0.9421	1.1714e-03	0.0000e+00
78	EMPTY	0.9619	0.9619	0.9619	0.0000e+00	0.0000e+00
79	EMPTY	0.9814	0.9863	0.9824	1.9730e-03	0.0000e+00
80	PAN020136	8.2678	10.5566	9.4610	5.3010e-01	8.7032e-01
81	PAN050136	15.0114	16.5373	15.7682	3.8867e-01	1.6805e+00
82	PAN070136	13.1405	14.5138	13.7982	3.0552e-01	8.7068e-01
83	PAN080136	3.8662	4.5529	4.2019	1.7975e-01	8.7006e-01
84	PAN090136	4.4119	5.0223	4.7156	1.5451e-01	8.7008e-01
85	PAN100136	3.9762	4.5865	4.3027	1.5105e-01	8.7007e-01
86	PAN105136	4.2175	4.8278	4.4784	1.3533e-01	8.7007e-01
87	PAN110136	3.8081	4.2659	4.0172	1.1719e-01	8.7006e-01
88	PAN115136	3.2272	3.8376	3.5583	1.3403e-01	8.7005e-01
89	PAN120136	1.4680	1.9258	1.6511	9.9892e-02	8.7001e-01
90	PAN125136	0.7739	1.2317	1.0288	1.0635e-01	8.7000e-01
91	PAN130136	0.8869	1.3447	1.1372	1.1012e-01	8.7000e-01
92	PAN120048	3.2441	4.2360	3.7019	2.6653e-01	8.7005e-01
93	PAN130048	2.0822	3.3792	2.9138	2.7411e-01	8.7003e-01
94	PAN120224	5.4552	6.1418	5.8245	1.5821e-01	8.7012e-01
95	PAN130224	2.2024	2.9654	2.6175	1.4056e-01	8.7002e-01
96	PAN120312	4.1171	4.7275	4.4254	1.4124e-01	8.7007e-01
97	PAN130312	1.8987	2.5853	2.2039	1.4459e-01	8.7002e-01
98	PAB000136	40.2239	40.9564	40.5563	1.4411e-01	5.8880e-01
99	PAB100136	38.3876	38.6623	38.4975	5.5489e-02	5.8793e-01
100	PAB125136	37.9474	38.1305	38.0362	4.2792e-02	5.8774e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.6526	40.9954	40.2507	2.9206e-01	7.5672e-01
102	PRV000001	19.6331	19.7552	19.6356	1.7263e-02	7.5160e-01
103	PSR000001	37.3544	37.4765	37.3715	4.2787e-02	7.5580e-01
104	PFM000001	30.1948	31.0188	30.6178	1.9301e-01	5.0583e-01
105	PAN000136	61.7190	75.4519	69.2721	3.0995e+00	4.9230e+00
106	PFM000002	27.3191	27.3191	27.3191	7.7069e-06	2.1134e-01
107	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
108	EMPTY	-6.7090	-5.8740	-6.3068	2.1419e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.3672	102.5391	102.0039	2.3281e-01	1.0152e+00
113	VPW000002	118.3556	119.3322	118.8243	1.9331e-01	1.0791e+00
114	VPW000003	146.2402	147.0215	146.7246	2.0969e-01	1.1963e+00
115	VPW000004	104.1917	105.1683	104.7503	2.0124e-01	1.0252e+00
116	VPW000005	138.5930	139.7649	139.2140	2.2213e-01	1.1635e+00
117	VPW000006	145.1435	146.1200	145.6552	2.1573e-01	1.1916e+00
118	IPW000001	562.5752	572.3369	567.2216	1.8871e+00	9.2569e+00
119	IPW000002	1284.8361	1300.4463	1292.7972	2.9458e+00	1.3035e+01
120	IPW000003	1306.1625	1317.8625	1312.5192	2.8082e+00	1.3158e+01
121	IPW000004	383.7046	387.6108	385.9896	9.2771e-01	3.6467e+00
122	IPW000005	253.1672	255.6084	254.1436	5.1254e-01	2.8339e+00
123	IPW000006	265.2212	267.6626	266.1100	5.1910e-01	2.9016e+00
124	EMPTY	-0.0293	-0.0146	-0.0205	4.0673e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.7902e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0165	3.6765e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	4.2038e-03	0.0000e+00
128	IHT000001	131.3439	133.8830	132.3751	5.9456e-01	4.3084e+00
129	IHT000002	130.7091	133.2482	131.8029	6.0232e-01	4.3066e+00
130	IHT000003	129.3870	132.1214	130.5980	6.1384e-01	4.3030e+00
131	IHT000004	131.5655	134.2999	132.9053	6.4115e-01	4.3100e+00
132	IHT000005	129.9054	132.2491	131.1202	5.9227e-01	4.3046e+00
133	IHT000006	125.4394	127.9785	126.8184	5.9896e-01	4.2917e+00
134	IHT000007	131.8472	134.3863	133.1050	5.6794e-01	4.3106e+00
135	IHT000008	130.8744	132.8275	131.8862	5.2451e-01	4.3069e+00
136	IHT000009	130.4049	132.5533	131.5767	5.4960e-01	4.3060e+00
137	IHT000010	130.7805	132.9289	131.7218	4.9393e-01	4.3064e+00
138	IHT000011	131.8397	133.9881	132.8241	4.8482e-01	4.3098e+00
139	IHT000012	130.8631	133.0116	131.9022	5.0754e-01	4.3070e+00
140	IHT000013	92.1124	94.6514	93.1865	5.2977e-01	4.2046e+00
141	IHT000014	127.6517	129.9955	128.6752	5.1230e-01	4.2972e+00
142	IHT000015	94.7566	96.9050	95.7566	5.6309e-01	4.2103e+00
143	IHT000016	89.0813	91.2297	90.0461	5.4877e-01	4.1977e+00
144	IHT000017	104.9091	107.2528	106.1826	5.6254e-01	4.2353e+00
145	IHT000018	106.8885	109.2323	108.0760	5.2621e-01	4.2401e+00
146	IHT000019	106.8697	109.4088	108.5806	5.7258e-01	4.2413e+00
147	IHT000020	105.2359	108.1656	106.9780	5.8639e-01	4.2373e+00
148	IHT000021	-3.2865	0.0338	-1.4623	6.7498e-01	4.1000e+00
149	IHT000022	92.0523	95.1773	93.9273	6.0618e-01	4.2062e+00
150	IHT000023	104.8603	107.5946	106.4228	4.8488e-01	4.2359e+00
151	IHT000024	70.0308	72.7652	71.6167	4.7292e-01	4.1621e+00
152	IHT000025	102.5954	105.3298	104.1149	4.8051e-01	4.2301e+00
153	IHT000026	104.7175	107.8425	106.3465	5.3614e-01	4.2357e+00
154	IHT000027	89.9715	92.7058	91.3113	5.7319e-01	4.2004e+00
155	IHT000028	90.9931	93.1415	91.9931	4.6961e-01	4.2019e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2913	108.6351	107.1468	4.9109e-01	4.2377e+00
157	IHT000030	108.8341	111.3732	109.8263	4.8942e-01	4.2445e+00
158	IHT000031	106.8960	109.2398	107.8023	4.6649e-01	4.2394e+00
159	IHT000032	107.5496	109.6980	108.4598	4.6288e-01	4.2410e+00
160	IHT000033	107.5571	109.7055	108.4321	4.6895e-01	4.2410e+00
161	IHT000034	94.1557	96.3041	95.2065	4.5316e-01	4.2091e+00
162	IHT000035	124.0610	126.2095	125.0806	4.7889e-01	4.2866e+00
163	IHT000036	92.6795	94.6326	93.8162	4.4238e-01	4.2060e+00

Velocity 1 = 14.0389 (ft/sec) (+/- 3.5658 %)
Velocity 2 = 13.2655 (ft/sec) (+/- 3.4866 %)
Pressure drop = 2.5107 (psi)
Tsats in = 268.1132 (deg F) Tsats out = 264.3192 (deg F)
Phi inner = 99.3120 (kBtu/hr-ft2) (+/- 1.5730 %)
Phi outer = 100.8723 (kBtu/hr-ft2) (+/- 1.5496 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6347	75.0599	74.9036	1.4892e-01	1.9000e+00
1	TRF000002	74.9307	75.5651	75.2156	1.1862e-01	1.9000e+00
2	TFM000001	86.2293	87.1725	86.7810	1.7741e-01	1.9002e+00
3	TIN000001	86.0936	87.0394	86.5634	2.1137e-01	1.9002e+00
4	TRV000001	86.2625	87.5183	86.7751	2.8837e-01	1.9002e+00
5	TSR000001	114.7394	120.8588	118.1589	1.7083e+00	1.9016e+00
6	EMPTY	37.9974	38.9168	38.4525	2.6326e-01	1.9010e+00
7	TAO050136	131.8367	132.5443	132.1815	1.5425e-01	1.9026e+00
8	TAO070136	134.9818	135.7935	135.4003	1.9389e-01	1.9029e+00
9	TAO080136	136.0951	136.6975	136.3947	1.3399e-01	1.9030e+00
10	TAO090136	141.8811	142.5845	142.2483	1.6852e-01	1.9035e+00
11	TAO100136	144.2868	144.9893	144.6371	1.7147e-01	1.9037e+00
12	TAO105136	144.6163	145.6211	145.2294	2.1331e-01	1.9038e+00
13	EMPTY	40.9819	41.4403	41.2298	1.2231e-01	1.9011e+00
14	TAO115136	149.0233	149.7257	149.3492	1.7196e-01	1.9042e+00
15	EMPTY	37.5374	37.9974	37.6924	1.1867e-01	1.9010e+00
16	TAO125136	145.7167	146.2174	146.0416	1.3013e-01	1.9039e+00
17	EMPTY	31.6897	32.3911	32.1573	1.9090e-01	1.9007e+00
18	EMPTY	41.4403	41.6693	41.5104	1.0667e-01	1.9012e+00
19	TAO130048	142.9207	143.6225	143.3361	1.6866e-01	1.9036e+00
20	TAO120224	142.2812	143.0857	142.7881	2.1712e-01	1.9036e+00
21	EMPTY	38.9168	39.3761	39.1793	9.3751e-02	1.9010e+00
22	TAO120312	148.9137	150.1155	149.5902	2.7457e-01	1.9043e+00
23	TAO130312	144.1154	144.8172	144.4532	1.7911e-01	1.9037e+00
24	EMPTY	38.9168	39.6057	39.2870	1.9221e-01	1.9010e+00
25	TRT070000	139.3245	140.0329	139.5824	1.6665e-01	1.9033e+00
26	TRT100000	150.9022	151.6007	151.2668	1.9480e-01	1.9044e+00
27	TRT120000	149.7427	150.3421	150.0362	1.4193e-01	1.9043e+00
28	TRT125000	151.0555	151.8509	151.5325	1.7577e-01	1.9045e+00
29	EMPTY	39.6057	40.0646	39.8352	1.1475e-01	1.9011e+00
30	EMPTY	39.3761	39.8352	39.6431	1.7118e-01	1.9011e+00
31	TAF050136	100.5219	101.4534	101.0271	1.7889e-01	1.9006e+00
32	TAF070136	105.0824	105.9059	105.5400	2.1338e-01	1.9009e+00
33	TAF080136	106.9219	107.6417	107.2685	1.6083e-01	1.9009e+00
34	TAF090136	108.4723	109.4000	109.0634	2.3875e-01	1.9010e+00
35	TAF100136	111.6938	112.2092	111.9862	1.6997e-01	1.9012e+00
36	TAF105136	113.6282	114.5472	114.1056	2.4040e-01	1.9013e+00
37	TAF110136	115.3344	115.9473	115.6179	1.3081e-01	1.9014e+00
38	TAF115136	117.4630	118.3834	117.9286	1.8792e-01	1.9015e+00
39	TAF120136	118.8518	119.4634	119.1220	1.2439e-01	1.9016e+00
40	TAF125136	120.3638	121.2792	120.8311	2.6540e-01	1.9017e+00
41	TAF130136	121.7446	122.2548	121.9635	1.5574e-01	1.9018e+00
42	TAF120048	122.9489	123.8712	123.4698	2.4740e-01	1.9019e+00
43	TAF130048	124.7209	125.3323	125.0267	1.4702e-01	1.9020e+00
44	TAF120224	119.2090	120.1276	119.7070	1.9293e-01	1.9017e+00
45	TAF130224	120.8778	121.5946	121.2811	1.4545e-01	1.9018e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.3074	38.2273	37.7956	2.1325e-01	1.9010e+00
47	EMPTY	38.9168	39.1464	39.0855	1.0246e-01	1.9010e+00
48	TAI130048	151.1428	151.6424	151.4549	1.2837e-01	1.9045e+00
49	TAI130136	147.0063	147.5066	147.2617	1.5945e-01	1.9040e+00
50	TAI130224	146.8505	147.4529	147.1557	1.4470e-01	1.9040e+00
51	TAI130312	145.4034	145.9053	145.6432	1.4598e-01	1.9039e+00
52	TRR130000	111.6149	113.2563	112.5846	3.8998e-01	1.9012e+00
53	TSI000001	41.9111	42.7810	42.3486	1.5772e-01	1.9005e+00
54	TSI000002	84.4436	85.4928	85.0045	2.3800e-01	1.9002e+00
55	TSO000001	41.3133	41.8600	41.5836	1.7719e-01	1.9005e+00
56	TSO000002	48.5852	49.4520	48.9590	2.0392e-01	1.9003e+00
57	TAF020136	92.3247	93.3758	92.7945	2.0671e-01	1.9003e+00
58	EMPTY	42.8139	43.5000	43.1453	2.4728e-01	1.9013e+00
59	TAF130312	125.7953	126.7102	126.1919	1.9267e-01	1.9021e+00
60	EMPTY	1.3916	1.4014	1.3974	2.1547e-03	0.0000e+00
61	EMPTY	1.4014	1.4063	1.4055	1.8234e-03	0.0000e+00
62	EMPTY	1.4111	1.4160	1.4118	1.7263e-03	0.0000e+00
63	EMPTY	1.4209	1.4258	1.4249	1.9103e-03	0.0000e+00
64	EMPTY	0.7422	0.7422	0.7422	0.0000e+00	0.0000e+00
65	EMPTY	0.7568	0.7617	0.7613	1.3508e-03	0.0000e+00
66	EMPTY	0.7715	0.7764	0.7752	2.1215e-03	0.0000e+00
67	EMPTY	0.7910	0.7959	0.7911	6.9754e-04	0.0000e+00
68	EMPTY	0.8008	0.8057	0.8009	6.9754e-04	0.0000e+00
69	EMPTY	0.8154	0.8203	0.8175	2.4414e-03	0.0000e+00
70	EMPTY	0.8301	0.8350	0.8312	2.0584e-03	0.0000e+00
71	EMPTY	0.8496	0.8545	0.8544	6.9754e-04	0.0000e+00
72	EMPTY	0.8643	0.8691	0.8645	9.7615e-04	0.0000e+00
73	EMPTY	0.8789	0.8838	0.8828	1.9883e-03	0.0000e+00
74	EMPTY	0.8936	0.8984	0.8945	1.9103e-03	0.0000e+00
75	EMPTY	0.9082	0.9131	0.9111	2.4247e-03	0.0000e+00
76	EMPTY	0.9229	0.9229	0.9229	0.0000e+00	0.0000e+00
77	EMPTY	0.9375	0.9424	0.9415	1.9103e-03	0.0000e+00
78	EMPTY	0.9619	0.9619	0.9619	0.0000e+00	0.0000e+00
79	EMPTY	0.9814	0.9863	0.9815	6.9754e-04	0.0000e+00
80	PAN020136	8.2678	10.2514	9.4916	4.7543e-01	8.7032e-01
81	PAN050136	15.0114	16.3847	15.7962	3.3834e-01	1.6805e+00
82	PAN070136	13.1405	14.3612	13.8848	3.1012e-01	8.7069e-01
83	PAN080136	3.9425	4.4766	4.2337	1.2621e-01	8.7006e-01
84	PAN090136	4.4119	5.0986	4.7202	1.6181e-01	8.7008e-01
85	PAN100136	4.0525	4.6628	4.3047	1.5035e-01	8.7007e-01
86	PAN105136	4.2175	4.7515	4.4759	1.1635e-01	8.7007e-01
87	PAN110136	3.6555	4.1896	3.9607	1.2163e-01	8.7006e-01
88	PAN115136	3.3035	3.8376	3.6165	1.0590e-01	8.7005e-01
89	PAN120136	1.3917	1.7732	1.6237	1.0558e-01	8.7001e-01
90	PAN125136	0.8502	1.2317	1.0573	1.0212e-01	8.7000e-01
91	PAN130136	0.8869	1.3447	1.1376	9.9719e-02	8.7000e-01
92	PAN120048	3.1678	4.0834	3.7159	2.3395e-01	8.7005e-01
93	PAN130048	2.3873	3.3792	2.9229	2.7442e-01	8.7003e-01
94	PAN120224	5.6078	6.2181	5.8803	1.3842e-01	8.7012e-01
95	PAN130224	2.3550	2.8891	2.6104	1.3714e-01	8.7002e-01
96	PAN120312	4.1171	4.8801	4.4410	1.7587e-01	8.7007e-01
97	PAN130312	1.8987	2.5853	2.2039	1.5728e-01	8.7002e-01
98	PAB000136	40.2697	40.7275	40.5024	1.3176e-01	5.8877e-01
99	PAB100136	38.3419	38.5707	38.4586	5.4534e-02	5.8792e-01
100	PAB125136	37.9474	38.0848	37.9997	4.2820e-02	5.8773e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.6526	40.7512	40.2007	2.3786e-01	7.5670e-01
102	PRV000001	19.5111	19.7552	19.6556	5.3867e-02	7.5161e-01
103	PSR000001	37.2323	37.3544	37.3395	4.0430e-02	7.5579e-01
104	PFM000001	30.1033	30.9273	30.6208	2.0089e-01	5.0583e-01
105	PAN000136	62.6345	74.9941	69.5103	2.5427e+00	4.9231e+00
106	PFM000002	27.3191	27.3191	27.3191	7.7085e-06	2.1134e-01
107	EMPTY	0.0049	0.0098	0.0053	1.3508e-03	0.0000e+00
108	EMPTY	-7.2705	-5.9668	-6.3860	2.4237e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9754e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.5625	102.7344	102.0329	2.4550e-01	1.0153e+00
113	VPW000002	118.5509	119.1369	118.9096	1.5618e-01	1.0794e+00
114	VPW000003	146.4355	147.4121	146.7425	2.1096e-01	1.1964e+00
115	VPW000004	104.3870	105.3636	104.7697	2.2888e-01	1.0253e+00
116	VPW000005	138.5930	139.7649	139.2028	2.3462e-01	1.1635e+00
117	VPW000006	145.1435	146.1200	145.6617	2.0543e-01	1.1916e+00
118	IPW000001	562.5752	572.3369	567.1174	2.1233e+00	9.2565e+00
119	IPW000002	1288.7386	1298.4950	1293.6766	2.1114e+00	1.3041e+01
120	IPW000003	1310.0625	1319.8125	1313.6044	2.3774e+00	1.3164e+01
121	IPW000004	384.1928	388.0991	385.9665	8.9533e-01	3.6465e+00
122	IPW000005	252.6790	255.1202	253.9742	5.7727e-01	2.8330e+00
123	IPW000006	265.2212	267.1743	266.1182	4.7117e-01	2.9017e+00
124	EMPTY	-0.0293	-0.0146	-0.0197	3.9817e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.5510e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0163	2.9146e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.4819e-03	0.0000e+00
128	IHT000001	131.3439	134.0783	132.4201	6.5525e-01	4.3085e+00
129	IHT000002	130.7091	133.4435	131.8371	6.2944e-01	4.3068e+00
130	IHT000003	129.5823	132.1214	130.6147	5.7082e-01	4.3030e+00
131	IHT000004	131.9561	134.4952	132.9127	5.3969e-01	4.3101e+00
132	IHT000005	129.9054	132.6397	131.1091	5.4569e-01	4.3045e+00
133	IHT000006	125.6348	127.9785	126.7827	5.0529e-01	4.2915e+00
134	IHT000007	132.0425	134.5816	133.1107	5.8199e-01	4.3107e+00
135	IHT000008	130.8744	133.2182	131.8750	5.6471e-01	4.3069e+00
136	IHT000009	130.4049	133.1393	131.5568	6.3695e-01	4.3059e+00
137	IHT000010	130.5852	132.9289	131.9922	5.1208e-01	4.3072e+00
138	IHT000011	131.6444	134.1834	133.1152	4.7525e-01	4.3107e+00
139	IHT000012	130.4725	133.2069	132.1785	5.2707e-01	4.3078e+00
140	IHT000013	92.1124	94.4561	93.4197	4.7709e-01	4.2051e+00
141	IHT000014	127.8470	129.9955	129.0270	5.0737e-01	4.2982e+00
142	IHT000015	94.9519	97.1003	96.0281	4.9655e-01	4.2110e+00
143	IHT000016	89.0813	91.6204	90.3369	5.3191e-01	4.1983e+00
144	IHT000017	105.2997	108.0341	106.6709	6.2211e-01	4.2365e+00
145	IHT000018	107.2791	109.4276	108.3833	4.9883e-01	4.2408e+00
146	IHT000019	107.6510	109.7994	108.5996	4.6151e-01	4.2414e+00
147	IHT000020	106.0171	107.9703	106.9857	4.9307e-01	4.2373e+00
148	IHT000021	-2.7006	-0.3568	-1.5686	5.5240e-01	4.1000e+00
149	IHT000022	93.0288	94.9820	93.9296	4.6973e-01	4.2062e+00
150	IHT000023	105.4462	107.2040	106.4427	4.1287e-01	4.2359e+00
151	IHT000024	70.6167	72.3745	71.5773	3.9835e-01	4.1620e+00
152	IHT000025	103.1813	104.9392	104.0702	4.3502e-01	4.2300e+00
153	IHT000026	105.4988	107.0613	106.2920	3.8942e-01	4.2355e+00
154	IHT000027	90.3621	92.1199	91.2350	4.2399e-01	4.2003e+00
155	IHT000028	91.1884	93.3368	92.0095	5.9399e-01	4.2020e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2913	108.6351	107.1842	6.0725e-01	4.2378e+00
157	IHT000030	108.8341	111.3732	109.8824	6.1852e-01	4.2447e+00
158	IHT000031	106.8960	109.6304	107.8526	6.4192e-01	4.2395e+00
159	IHT000032	107.3543	110.2840	108.5302	6.2083e-01	4.2412e+00
160	IHT000033	107.1665	110.0961	108.5018	6.3081e-01	4.2411e+00
161	IHT000034	93.9603	97.2807	95.1721	6.1761e-01	4.2090e+00
162	IHT000035	123.6704	126.7954	125.0535	6.2255e-01	4.2865e+00
163	IHT000036	92.6795	95.8045	93.8275	6.2738e-01	4.2060e+00

Velocity 1 = 0.000700 (ft/sec)
 Velocity 2 = 0.000000 (ft/sec)
 Pressure Drop = 0.008600 (psi)
 Tsat in = 0.079407 (deg F) Tsat out = 0.056885 (deg F)
 Phi inner = 0.079597 (kBtu/hr-ft2) Phi outer = 0.069901 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0202	0.0270
1	TRF000002	0.0408	0.0542
2	TFM000001	0.0005	0.0006
3	TIN000001	0.2386	0.2749
4	TRV000001	0.5190	0.5945
5	TSR000001	1.6865	1.4072
6	EMPTY	0.0229	0.0596
7	TAO050136	0.1223	0.0924
8	TAO070136	0.1032	0.0762
9	TAO080136	0.0082	0.0060
10	TAO090136	0.0530	0.0372
11	TAO100136	0.1174	0.0811
12	TAO105136	0.0359	0.0247
13	EMPTY	0.0501	0.1214
14	TAO115136	0.0375	0.0251
15	EMPTY	0.0245	0.0650
16	TAO125136	0.0614	0.0420
17	EMPTY	0.0374	0.1162
18	EMPTY	0.0060	0.0145
19	TAO130048	0.0918	0.0640
20	TAO120224	0.0261	0.0183
21	EMPTY	0.0131	0.0334
22	TAO120312	0.0055	0.0037
23	TAO130312	0.1055	0.0730
24	EMPTY	0.0487	0.1241
25	TRT070000	0.0514	0.0368
26	TRT100000	0.0725	0.0479
27	TRT120000	0.0481	0.0321
28	TRT125000	0.0622	0.0410
29	EMPTY	0.0046	0.0116
30	EMPTY	0.0099	0.0250
31	TAF050136	0.1017	0.1006
32	TAF070136	0.0383	0.0363
33	TAF080136	0.0466	0.0434
34	TAF090136	0.0541	0.0496
35	TAF100136	0.0683	0.0610
36	TAF105136	0.0884	0.0774
37	TAF110136	0.0292	0.0253
38	TAF115136	0.0562	0.0476
39	TAF120136	0.0457	0.0383
40	TAF125136	0.0233	0.0193
41	TAF130136	0.0405	0.0332
42	TAF120048	0.0880	0.0712
43	TAF130048	0.0794	0.0635
44	TAF120224	0.1085	0.0906
45	TAF130224	0.0657	0.0541

#	Name	Abs Diff	%Diff
46	EMPTY	0.1190	0.3139
47	EMPTY	0.0701	0.1790
48	TAI130048	0.0697	0.0460
49	TAI130136	0.1387	0.0941
50	TAI130224	0.0179	0.0122
51	TAI130312	0.0955	0.0655
52	TRR130000	0.1242	0.1102
53	TSI000001	0.0608	0.1434
54	TSI000002	0.1713	0.2011
55	TSO000001	0.0338	0.0812
56	TSO000002	0.0445	0.0908
57	TAF020136	0.0745	0.0802
58	EMPTY	0.0341	0.0791
59	TAF130312	0.2236	0.1769
60	EMPTY	0.0047	0.3352
61	EMPTY	0.0046	0.3262
62	EMPTY	0.0051	0.3599
63	EMPTY	0.0034	0.2380
64	EMPTY	0.0009	0.1211
65	EMPTY	0.0004	0.0525
66	EMPTY	0.0012	0.1546
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0019	0.2367
69	EMPTY	0.0025	0.3049
70	EMPTY	0.0021	0.2520
71	EMPTY	0.0001	0.0117
72	EMPTY	0.0006	0.0694
73	EMPTY	0.0010	0.1132
74	EMPTY	0.0023	0.2565
75	EMPTY	0.0012	0.1315
76	EMPTY	0.0002	0.0217
77	EMPTY	0.0006	0.0637
78	EMPTY	0.0000	0.0000
79	EMPTY	0.0009	0.0916
80	PAN020136	0.0306	0.3234
81	PAN050136	0.0280	0.1776
82	PAN070136	0.0866	0.6276
83	PAN080136	0.0318	0.7568
84	PAN090136	0.0046	0.0975
85	PAN100136	0.0020	0.0465
86	PAN105136	0.0025	0.0558
87	PAN110136	0.0565	1.4065
88	PAN115136	0.0582	1.6356
89	PAN120136	0.0274	1.6595
90	PAN125136	0.0285	2.7702
91	PAN130136	0.0004	0.0352
92	PAN120048	0.0140	0.3782
93	PAN130048	0.0091	0.3123
94	PAN120224	0.0558	0.9580
95	PAN130224	0.0071	0.2713
96	PAN120312	0.0156	0.3525
97	PAN130312	0.0000	0.0000
98	PAB000136	0.0539	0.1329
99	PAB100136	0.0389	0.1011
100	PAB125136	0.0365	0.0960

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0500	0.1242
102	PRV000001	0.0200	0.1019
103	PSR000001	0.0320	0.0856
104	PFM000001	0.0030	0.0098
105	PAN000136	0.2382	0.3439
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	3.6364
108	EMPTY	0.0792	1.2558
109	EMPTY	0.0001	2.0408
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0290	0.0284
113	VPW000002	0.0853	0.0718
114	VPW000003	0.0179	0.0122
115	VPW000004	0.0194	0.0185
116	VPW000005	0.0112	0.0080
117	VPW000006	0.0065	0.0045
118	IPW000001	0.1042	0.0184
119	IPW000002	0.8794	0.0680
120	IPW000003	1.0852	0.0827
121	IPW000004	0.0231	0.0060
122	IPW000005	0.1694	0.0667
123	IPW000006	0.0082	0.0031
124	EMPTY	0.0008	3.9024
125	EMPTY	0.0007	5.1095
126	EMPTY	0.0002	1.2121
127	EMPTY	0.0007	4.1667
128	IHT000001	0.0450	0.0340
129	IHT000002	0.0342	0.0259
130	IHT000003	0.0167	0.0128
131	IHT000004	0.0074	0.0056
132	IHT000005	0.0111	0.0085
133	IHT000006	0.0357	0.0281
134	IHT000007	0.0057	0.0043
135	IHT000008	0.0112	0.0085
136	IHT000009	0.0199	0.0151
137	IHT000010	0.2704	0.2053
138	IHT000011	0.2911	0.2192
139	IHT000012	0.2763	0.2095
140	IHT000013	0.2332	0.2503
141	IHT000014	0.3518	0.2734
142	IHT000015	0.2715	0.2835
143	IHT000016	0.2908	0.3229
144	IHT000017	0.4883	0.4599
145	IHT000018	0.3073	0.2843
146	IHT000019	0.0190	0.0175
147	IHT000020	0.0077	0.0072
148	IHT000021	0.1063	7.2694
149	IHT000022	0.0023	0.0025
150	IHT000023	0.0199	0.0187
151	IHT000024	0.0394	0.0550
152	IHT000025	0.0447	0.0429
153	IHT000026	0.0545	0.0512
154	IHT000027	0.0763	0.0836
155	IHT000028	0.0164	0.0178

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0374	0.0349
157	IHT000030	0.0561	0.0511
158	IHT000031	0.0503	0.0467
159	IHT000032	0.0704	0.0649
160	IHT000033	0.0697	0.0643
161	IHT000034	0.0344	0.0361
162	IHT000035	0.0271	0.0217
163	IHT000036	0.0113	0.0120

Velocity 1 = 8.0163 (ft/sec) (+/- 4.2944 %)
Velocity 2 = 7.9316 (ft/sec) (+/- 3.5935 %)
Pressure drop = -2.7181 (psi)
Tsat in = 268.1575 (deg F) Tsat out = 271.7560 (deg F)
Phi inner = 99.2711 (kBtu/hr-ft2) (+/- 1.5732 %)
Phi outer = 99.8236 (kBtu/hr-ft2) (+/- 1.5539 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6347	75.2724	75.0471	1.8922e-01	1.9000e+00
1	TRF000002	75.1422	75.5651	75.3833	1.4806e-01	1.9000e+00
2	TFM000001	85.1810	86.1251	85.6722	2.0817e-01	1.9002e+00
3	TIN000001	85.3572	85.8837	85.6268	1.5345e-01	1.9002e+00
4	TRV000001	85.8433	86.6826	86.3009	2.5456e-01	1.9002e+00
5	TSR000001	136.3338	138.3443	137.7088	5.0951e-01	1.9031e+00
6	EMPTY	37.9974	38.9168	38.4388	2.3142e-01	1.9010e+00
7	TAO050136	155.9219	156.4193	156.1531	1.5223e-01	1.9050e+00
8	TAO070136	160.7405	161.7354	161.1824	2.3534e-01	1.9056e+00
9	TAO080136	162.1503	163.1373	162.7030	2.0354e-01	1.9058e+00
10	TAO090136	166.0583	166.6507	166.3426	1.3018e-01	1.9062e+00
11	TAO100136	170.6060	171.3932	170.9996	1.9483e-01	1.9069e+00
12	TAO105136	172.1681	172.9556	172.6525	2.2217e-01	1.9071e+00
13	EMPTY	40.9819	41.6693	41.2753	1.4669e-01	1.9011e+00
14	TAO115136	182.0748	183.0539	182.5565	2.3141e-01	1.9085e+00
15	EMPTY	31.7686	41.8984	36.7506	2.8845e+00	1.9009e+00
16	TAO125136	181.0830	181.6690	181.3373	1.6610e-01	1.9083e+00
17	EMPTY	31.9235	32.6248	32.2742	1.7191e-01	1.9007e+00
18	EMPTY	41.4403	41.6693	41.5502	1.1561e-01	1.9012e+00
19	TAO130048	177.5833	178.3653	177.9471	1.8325e-01	1.9078e+00
20	TAO120224	175.7416	176.5263	176.1182	1.9150e-01	1.9076e+00
21	EMPTY	38.9168	39.6057	39.2659	1.4845e-01	1.9010e+00
22	TAO120312	183.9226	184.9970	184.4583	2.6035e-01	1.9088e+00
23	TAO130312	177.5381	178.4188	178.0158	1.7195e-01	1.9078e+00
24	EMPTY	39.1464	39.6057	39.4174	2.0054e-01	1.9010e+00
25	TRT070000	172.6034	173.1980	172.8537	1.5496e-01	1.9071e+00
26	TRT100000	186.4220	187.2000	186.8110	1.8218e-01	1.9092e+00
27	TRT120000	187.5724	188.3503	187.9769	1.6369e-01	1.9094e+00
28	TRT125000	188.7354	189.4140	189.1119	1.9138e-01	1.9095e+00
29	EMPTY	39.8352	40.0646	39.9362	1.1506e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6883	2.0086e-01	1.9011e+00
31	TAF050136	109.2823	110.5159	110.0675	2.3195e-01	1.9011e+00
32	TAF070136	117.2571	118.2773	117.6495	2.5417e-01	1.9015e+00
33	TAF080136	120.5779	121.6952	121.0776	2.8867e-01	1.9018e+00
34	TAF090136	123.5347	124.8596	124.1099	3.3866e-01	1.9020e+00
35	TAF100136	129.0952	129.9082	129.4776	2.0893e-01	1.9024e+00
36	TAF105136	132.2224	133.3288	132.7773	2.2535e-01	1.9027e+00
37	TAF110136	135.5873	136.3933	135.9542	2.2728e-01	1.9029e+00
38	TAF115136	138.7443	139.5489	139.1343	2.0796e-01	1.9032e+00
39	TAF120136	141.2462	142.0486	141.6074	1.7671e-01	1.9035e+00
40	TAF125136	143.8918	144.9896	144.4622	2.6210e-01	1.9037e+00
41	TAF130136	146.3499	147.2496	146.7935	1.9828e-01	1.9040e+00
42	TAF120048	147.9707	148.9791	148.4987	2.4950e-01	1.9041e+00
43	TAF130048	151.4234	152.6210	151.9786	2.5117e-01	1.9045e+00
44	TAF120224	140.9807	141.8858	141.4195	2.2133e-01	1.9034e+00
45	TAF130224	144.9803	145.7852	145.3790	1.7474e-01	1.9038e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9284	2.1915e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3485	9.9928e-02	1.9010e+00
48	TAI130048	187.9032	188.4874	188.1994	1.7687e-01	1.9094e+00
49	TAI130136	182.7487	183.4306	183.1267	1.4957e-01	1.9086e+00
50	TAI130224	180.3672	181.4444	180.7826	2.5610e-01	1.9083e+00
51	TAI130312	184.0929	184.7761	184.3860	1.7743e-01	1.9088e+00
52	TRR130000	128.9364	130.6564	129.5676	4.3152e-01	1.9024e+00
53	TSI000001	43.1054	43.9752	43.5493	1.7817e-01	1.9005e+00
54	TSI000002	97.5906	98.8374	98.3554	2.9658e-01	1.9005e+00
55	TSO000001	41.9691	42.7344	42.4246	1.7970e-01	1.9005e+00
56	TSO000002	51.5061	52.3704	51.9080	2.1610e-01	1.9002e+00
57	TAF020136	95.7899	96.9419	96.3637	2.6349e-01	1.9005e+00
58	EMPTY	42.5851	43.5000	43.1341	2.4449e-01	1.9013e+00
59	TAI130312	152.3418	153.3370	152.8872	2.3484e-01	1.9046e+00
60	EMPTY	2.0313	2.0410	2.0366	2.4662e-03	0.0000e+00
61	EMPTY	2.0361	2.0410	2.0402	1.8082e-03	0.0000e+00
62	EMPTY	2.0410	2.0459	2.0437	2.4583e-03	0.0000e+00
63	EMPTY	2.0508	2.0557	2.0510	9.6655e-04	0.0000e+00
64	EMPTY	1.0107	1.0156	1.0147	1.8950e-03	0.0000e+00
65	EMPTY	1.0303	1.0303	1.0303	0.0000e+00	0.0000e+00
66	EMPTY	1.0400	1.0449	1.0445	1.3381e-03	0.0000e+00
67	EMPTY	1.0547	1.0596	1.0582	2.2146e-03	0.0000e+00
68	EMPTY	1.0645	1.0693	1.0690	1.1714e-03	0.0000e+00
69	EMPTY	1.0791	1.0840	1.0832	1.8082e-03	0.0000e+00
70	EMPTY	1.0938	1.0986	1.0939	9.6655e-04	0.0000e+00
71	EMPTY	1.1133	1.1182	1.1139	1.6028e-03	0.0000e+00
72	EMPTY	1.1230	1.1328	1.1263	2.5362e-03	0.0000e+00
73	EMPTY	1.1377	1.1426	1.1419	1.7115e-03	0.0000e+00
74	EMPTY	1.1523	1.1572	1.1525	9.6655e-04	0.0000e+00
75	EMPTY	1.1670	1.1670	1.1670	0.0000e+00	0.0000e+00
76	EMPTY	1.1768	1.1816	1.1769	6.9053e-04	0.0000e+00
77	EMPTY	1.1914	1.1963	1.1941	2.4484e-03	0.0000e+00
78	EMPTY	1.2109	1.2158	1.2130	2.4344e-03	0.0000e+00
79	EMPTY	1.2305	1.2354	1.2348	1.6028e-03	0.0000e+00
80	PAN020136	-9.8902	-8.4406	-9.1226	3.1150e-01	8.7030e-01
81	PAN050136	-18.8631	-17.7950	-18.1642	2.1818e-01	1.6806e+00
82	PAN070136	-11.9602	-11.0447	-11.4917	1.5414e-01	8.7047e-01
83	PAN080136	-6.5098	-6.1283	-6.2977	9.4125e-02	8.7014e-01
84	PAN090136	-6.6507	-6.2692	-6.4203	7.3097e-02	8.7015e-01
85	PAN100136	-6.2472	-5.9420	-6.1144	6.6850e-02	8.7013e-01
86	PAN105136	-2.3438	-1.8861	-2.1210	9.9702e-02	8.7002e-01
87	PAN110136	-2.8295	-2.5243	-2.6555	7.3986e-02	8.7003e-01
88	PAN115136	-2.8763	-2.6474	-2.7924	6.7627e-02	8.7003e-01
89	PAN120136	-3.2622	-3.0333	-3.1233	7.8125e-02	8.7004e-01
90	PAN125136	-3.8037	-3.4985	-3.6206	6.5395e-02	8.7005e-01
91	PAN130136	-3.3855	-3.0804	-3.2497	7.2772e-02	8.7004e-01
92	PAN120048	-7.4370	-6.5215	-6.9655	2.3814e-01	8.7017e-01
93	PAN130048	-6.9205	-6.0813	-6.4078	1.7712e-01	8.7015e-01
94	PAN120224	-6.0652	-5.7600	-5.9218	8.1036e-02	8.7013e-01
95	PAN130224	-6.9528	-6.4188	-6.6980	9.1980e-02	8.7016e-01
96	PAN120312	-6.1825	-5.8011	-6.0254	8.0698e-02	8.7013e-01
97	PAN130312	-7.0277	-6.6462	-6.8370	6.9362e-02	8.7017e-01
98	FAB000136	40.3613	40.7275	40.5325	8.9574e-02	5.8879e-01
99	PAB100136	42.4159	42.5533	42.4754	4.4593e-02	5.8964e-01
100	PAB125136	42.9828	43.1202	43.0405	4.5127e-02	5.8990e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8967	40.7512	40.3337	1.7969e-01	7.5675e-01
102	PRV000001	19.9994	20.1214	20.0555	6.1457e-02	7.5167e-01
103	PSR000001	43.0917	43.2138	43.1918	4.7374e-02	7.5773e-01
104	PFM000001	9.6870	10.0532	9.8866	9.3750e-02	5.0061e-01
105	PAN000136	-78.8145	-71.9480	-75.2531	1.4834e+00	4.9236e+00
106	PFM000002	9.5157	9.8178	9.6765	5.7640e-02	2.0146e-01
107	EMPTY	-0.0049	0.0049	-0.0044	1.7784e-03	0.0000e+00
108	EMPTY	-6.7969	-5.8789	-6.3288	2.2797e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0013	2.3778e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0008	1.8082e-03	0.0000e+00
112	VPW000001	101.5625	102.1484	101.8281	1.1679e-01	1.0146e+00
113	VPW000002	118.5509	118.9415	118.7775	9.9512e-02	1.0789e+00
114	VPW000003	146.6308	147.2168	146.8730	1.2823e-01	1.1969e+00
115	VPW000004	104.3870	104.9730	104.7464	1.4953e-01	1.0252e+00
116	VPW000005	139.3743	139.7649	139.5460	1.1599e-01	1.1650e+00
117	VPW000006	145.7294	145.9247	145.7880	9.0412e-02	1.1922e+00
118	IPW000001	558.6705	564.5275	561.3649	1.3601e+00	9.2346e+00
119	IPW000002	1273.1284	1280.9336	1277.4210	1.4214e+00	1.2940e+01
120	IPW000003	1310.0625	1315.9125	1312.0898	1.4720e+00	1.3155e+01
121	IPW000004	383.2163	384.6811	383.7338	4.3461e-01	3.6318e+00
122	IPW000005	253.1672	254.1437	253.7628	3.4580e-01	2.8318e+00
123	IPW000006	264.7329	266.6861	265.5827	3.7963e-01	2.8986e+00
124	EMPTY	-0.0293	-0.0146	-0.0225	3.6911e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0160	2.6174e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0188	2.8523e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0192	3.6124e-03	0.0000e+00
128	IHT000001	131.1486	133.4923	132.2032	5.6772e-01	4.3079e+00
129	IHT000002	130.5138	132.8576	131.6115	5.1128e-01	4.3061e+00
130	IHT000003	129.3870	131.7308	130.4261	5.2710e-01	4.3025e+00
131	IHT000004	131.5655	133.7139	132.7178	4.9639e-01	4.3095e+00
132	IHT000005	129.9054	132.0538	130.9600	5.0378e-01	4.3041e+00
133	IHT000006	125.6348	127.5879	126.5723	4.6522e-01	4.2909e+00
134	IHT000007	132.0425	133.9957	132.9019	4.8488e-01	4.3100e+00
135	IHT000008	130.8744	132.8275	131.6284	4.8168e-01	4.3061e+00
136	IHT000009	130.4049	132.5533	131.3345	4.9530e-01	4.3052e+00
137	IHT000010	130.3899	132.5383	131.5890	4.4470e-01	4.3060e+00
138	IHT000011	131.4491	133.4022	132.5233	4.0289e-01	4.3089e+00
139	IHT000012	130.6678	132.4256	131.5468	4.3450e-01	4.3059e+00
140	IHT000013	91.9171	93.8702	92.9170	4.5445e-01	4.2040e+00
141	IHT000014	127.8470	129.6049	128.6206	4.1378e-01	4.2970e+00
142	IHT000015	94.5613	96.3191	95.4949	4.0297e-01	4.2097e+00
143	IHT000016	88.6907	90.6438	89.7219	4.1393e-01	4.1970e+00
144	IHT000017	105.2997	107.2528	106.3193	4.9172e-01	4.2356e+00
145	IHT000018	106.6932	109.4276	108.2088	5.6985e-01	4.2404e+00
146	IHT000019	107.6510	110.1900	108.6861	4.7392e-01	4.2416e+00
147	IHT000020	106.2124	108.3609	106.8960	4.3450e-01	4.2371e+00
148	IHT000021	-2.5053	0.4244	-1.5209	5.3809e-01	4.1000e+00
149	IHT000022	93.0288	95.3726	93.6694	4.0824e-01	4.2056e+00
150	IHT000023	105.4462	107.9853	106.2509	4.0748e-01	4.2354e+00
151	IHT000024	70.6167	73.1558	71.5191	4.1364e-01	4.1619e+00
152	IHT000025	102.9860	105.5251	104.0134	4.0781e-01	4.2299e+00
153	IHT000026	105.3035	107.6472	106.2840	3.9556e-01	4.2355e+00
154	IHT000027	89.9715	92.1199	90.9715	3.6729e-01	4.1997e+00
155	IHT000028	90.6025	92.7509	91.6376	4.9166e-01	4.2012e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0960	108.2444	106.9632	5.1473e-01	4.2372e+00
157	IHT000030	108.6388	110.9826	109.6427	5.4392e-01	4.2441e+00
158	IHT000031	106.7007	108.6539	107.5640	5.4546e-01	4.2387e+00
159	IHT000032	107.3543	109.5027	108.2801	5.6471e-01	4.2406e+00
160	IHT000033	107.3618	109.5102	108.2290	5.5826e-01	4.2404e+00
161	IHT000034	93.9603	95.9135	94.6948	5.1230e-01	4.2079e+00
162	IHT000035	124.0610	126.2095	124.7759	5.3322e-01	4.2857e+00
163	IHT000036	92.4842	95.0233	93.3514	5.4841e-01	4.2049e+00

Velocity 1 = 8.0059 (ft/sec) (+/- 4.2983 %)
Velocity 2 = 7.9218 (ft/sec) (+/- 3.5941 %)
Pressure drop = -2.7216 (psi)
Tsat in = 268.0553 (deg F) Tsat out = 271.6792 (deg F)
Phi inner = 99.2128 (kBtu/hr-ft2) (+/- 1.5733 %)
Phi outer = 99.8462 (kBtu/hr-ft2) (+/- 1.5537 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6347	75.4849	75.0338	1.8730e-01	1.9000e+00
1	TRF000002	75.1422	75.5651	75.3710	1.5466e-01	1.9000e+00
2	TFM000001	85.1816	86.0208	85.5966	2.0984e-01	1.9002e+00
3	TIN000001	85.2523	85.8836	85.5250	1.5163e-01	1.9002e+00
4	TRV000001	85.9492	86.8918	86.4084	2.0603e-01	1.9002e+00
5	TSR000001	136.4332	138.6456	137.7716	5.8180e-01	1.9031e+00
6	EMPTY	37.9974	38.6870	38.3868	1.9460e-01	1.9010e+00
7	TAO050136	155.7238	156.5186	156.1456	1.8853e-01	1.9050e+00
8	TAO070136	160.7405	161.8348	161.2565	2.2027e-01	1.9056e+00
9	TAO080136	162.3473	163.0398	162.6579	1.9340e-01	1.9058e+00
10	TAO090136	165.7628	166.6507	166.2800	2.3011e-01	1.9062e+00
11	TAO100136	170.6060	171.3932	170.9956	1.9880e-01	1.9069e+00
12	TAO105136	172.1682	173.0541	172.5900	2.0693e-01	1.9071e+00
13	EMPTY	40.9819	41.4403	41.2673	1.2836e-01	1.9011e+00
14	TAO115136	182.0748	182.9557	182.4704	2.0576e-01	1.9085e+00
15	EMPTY	32.9252	41.4403	37.9107	2.0915e+00	1.9010e+00
16	TAO125136	180.9865	181.7670	181.3187	1.8461e-01	1.9083e+00
17	EMPTY	31.9235	32.6248	32.2957	1.9038e-01	1.9007e+00
18	EMPTY	41.4403	41.8984	41.5244	1.2098e-01	1.9012e+00
19	TAO130048	177.5829	178.3653	177.9027	1.6320e-01	1.9078e+00
20	TAO120224	175.5455	176.6246	176.0098	2.3422e-01	1.9076e+00
21	EMPTY	38.9168	39.6057	39.2870	1.7422e-01	1.9010e+00
22	TAO120312	183.9230	185.0947	184.4592	2.4250e-01	1.9088e+00
23	TAO130312	177.7340	178.3217	177.9916	1.9843e-01	1.9078e+00
24	EMPTY	38.9168	39.8352	39.4276	2.0030e-01	1.9010e+00
25	TRT070000	172.5066	173.1966	172.8569	1.7681e-01	1.9071e+00
26	TRT100000	186.3248	187.2976	186.8268	2.0187e-01	1.9092e+00
27	TRT120000	187.5719	188.4478	187.8978	2.0398e-01	1.9093e+00
28	TRT125000	188.6402	189.6084	189.1471	1.9414e-01	1.9095e+00
29	EMPTY	39.8352	40.0646	39.9382	1.1532e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6478	2.3274e-01	1.9011e+00
31	TAF050136	109.5910	110.7211	110.0709	2.4598e-01	1.9011e+00
32	TAF070136	116.9512	118.3795	117.6802	3.3150e-01	1.9015e+00
33	TAF080136	120.4754	121.6952	121.0153	2.7825e-01	1.9018e+00
34	TAF090136	123.5352	124.6557	124.1008	2.7976e-01	1.9020e+00
35	TAF100136	128.9934	130.1118	129.4211	2.5493e-01	1.9024e+00
36	TAF105136	132.3220	133.3288	132.7783	2.4391e-01	1.9027e+00
37	TAF110136	135.3875	136.3933	135.9205	2.4511e-01	1.9029e+00
38	TAF115136	138.6427	139.6494	139.1320	2.3057e-01	1.9032e+00
39	TAF120136	141.1465	141.8487	141.5127	1.8051e-01	1.9034e+00
40	TAF125136	143.9904	145.1888	144.5043	3.1953e-01	1.9037e+00
41	TAF130136	146.4487	147.1503	146.7597	1.8530e-01	1.9040e+00
42	TAF120048	147.8713	149.2790	148.5033	3.1137e-01	1.9041e+00
43	TAF130048	151.2238	152.5217	151.9370	2.2315e-01	1.9045e+00
44	TAF120224	140.9807	141.7854	141.3669	2.0656e-01	1.9034e+00
45	TAF130224	144.9808	145.8857	145.3625	2.1626e-01	1.9038e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9552	1.9733e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2824	1.3190e-01	1.9010e+00
48	TAI130048	187.7092	188.5849	188.1181	1.8307e-01	1.9094e+00
49	TAI130136	182.7482	183.4315	183.0312	1.8479e-01	1.9086e+00
50	TAI130224	179.6816	180.7590	180.2813	2.5574e-01	1.9082e+00
51	TAI130312	184.0929	184.9716	184.4518	1.7063e-01	1.9088e+00
52	TRR130000	128.2277	129.9486	129.3223	4.2216e-01	1.9024e+00
53	TSI000001	43.1060	44.0842	43.4919	1.8700e-01	1.9005e+00
54	TSI000002	97.7987	98.8374	98.2694	2.5539e-01	1.9005e+00
55	TSO000001	41.8609	43.0623	42.4852	2.4217e-01	1.9005e+00
56	TSO000002	51.6140	52.3704	51.9074	1.8974e-01	1.9002e+00
57	TAF020136	95.8944	97.0458	96.3284	2.2396e-01	1.9005e+00
58	EMPTY	42.8139	43.5000	43.1639	2.7657e-01	1.9013e+00
59	TAF130312	152.2417	153.5370	152.8394	2.6199e-01	1.9046e+00
60	EMPTY	2.0313	2.0410	2.0356	2.4907e-03	0.0000e+00
61	EMPTY	2.0361	2.0410	2.0384	2.4621e-03	0.0000e+00
62	EMPTY	2.0410	2.0459	2.0411	6.9754e-04	0.0000e+00
63	EMPTY	2.0459	2.0508	2.0501	1.7263e-03	0.0000e+00
64	EMPTY	1.0107	1.0156	1.0142	2.2287e-03	0.0000e+00
65	EMPTY	1.0303	1.0352	1.0304	6.9754e-04	0.0000e+00
66	EMPTY	1.0400	1.0449	1.0441	1.8234e-03	0.0000e+00
67	EMPTY	1.0547	1.0596	1.0574	2.4538e-03	0.0000e+00
68	EMPTY	1.0645	1.0693	1.0682	2.0584e-03	0.0000e+00
69	EMPTY	1.0791	1.0840	1.0827	2.1781e-03	0.0000e+00
70	EMPTY	1.0938	1.0986	1.0939	9.7615e-04	0.0000e+00
71	EMPTY	1.1133	1.1182	1.1136	1.1827e-03	0.0000e+00
72	EMPTY	1.1230	1.1279	1.1253	2.4621e-03	0.0000e+00
73	EMPTY	1.1377	1.1426	1.1413	2.1781e-03	0.0000e+00
74	EMPTY	1.1523	1.1523	1.1523	0.0000e+00	0.0000e+00
75	EMPTY	1.1670	1.1670	1.1670	0.0000e+00	0.0000e+00
76	EMPTY	1.1768	1.1816	1.1770	9.7615e-04	0.0000e+00
77	EMPTY	1.1914	1.1963	1.1939	2.4662e-03	0.0000e+00
78	EMPTY	1.2109	1.2158	1.2127	2.3783e-03	0.0000e+00
79	EMPTY	1.2305	1.2354	1.2351	1.1827e-03	0.0000e+00
80	PAN020136	-9.8902	-8.6695	-9.2549	3.0334e-01	8.7031e-01
81	PAN050136	-18.7105	-17.7950	-18.1749	1.8977e-01	1.6806e+00
82	PAN070136	-11.7313	-11.2735	-11.5149	1.1159e-01	8.7048e-01
83	PAN080136	-6.5861	-6.1283	-6.3074	1.0395e-01	8.7014e-01
84	PAN090136	-6.5744	-6.2692	-6.4374	7.6261e-02	8.7015e-01
85	PAN100136	-6.3235	-5.9420	-6.1289	6.7992e-02	8.7013e-01
86	PAN105136	-2.2675	-1.9624	-2.1181	7.6229e-02	8.7002e-01
87	PAN110136	-2.8295	-2.5243	-2.6660	6.9647e-02	8.7003e-01
88	PAN115136	-3.0289	-2.6474	-2.7938	7.2774e-02	8.7003e-01
89	PAN120136	-3.2622	-2.9570	-3.1096	7.7867e-02	8.7003e-01
90	PAN125136	-3.8037	-3.4985	-3.6153	6.9824e-02	8.7005e-01
91	PAN130136	-3.3855	-3.0804	-3.2361	6.7810e-02	8.7004e-01
92	PAN120048	-7.3607	-6.4452	-6.9824	1.9386e-01	8.7018e-01
93	PAN130048	-6.8442	-5.8524	-6.4161	2.0174e-01	8.7015e-01
94	PAN120224	-6.0652	-5.7600	-5.9360	8.1227e-02	8.7013e-01
95	PAN130224	-6.8765	-6.5714	-6.6928	7.6164e-02	8.7016e-01
96	PAN120312	-6.2588	-5.8774	-6.0362	8.3629e-02	8.7013e-01
97	PAN130312	-7.0277	-6.6462	-6.8377	7.8058e-02	8.7017e-01
98	PAB000136	40.1324	40.7275	40.4631	1.2546e-01	5.8876e-01
99	PAB100136	42.2328	42.5533	42.4113	8.2124e-02	5.8961e-01
100	PAB125136	42.7997	43.1202	42.9856	8.6859e-02	5.8987e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8967	40.7512	40.3103	1.6305e-01	7.5674e-01
102	PRV000001	19.9994	20.1214	20.0317	5.4452e-02	7.5167e-01
103	PSR000001	42.9696	43.2138	43.1440	7.8796e-02	7.5772e-01
104	PFM000001	9.6870	10.0532	9.8608	9.5739e-02	5.0061e-01
105	PAN000136	-78.8145	-71.4902	-75.3485	1.1856e+00	4.9236e+00
106	PFM000002	9.5661	9.7842	9.6524	6.0597e-02	2.0145e-01
107	EMPTY	-0.0049	0.0000	-0.0042	1.7263e-03	0.0000e+00
108	EMPTY	-6.8945	-5.9473	-6.4311	2.3468e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0015	2.2737e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0014	2.2287e-03	0.0000e+00
112	VPW000001	101.5625	101.9531	101.7538	1.2282e-01	1.0143e+00
113	VPW000002	118.5509	119.1369	118.7941	1.0188e-01	1.0789e+00
114	VPW000003	146.6308	147.0215	146.8421	1.0424e-01	1.1968e+00
115	VPW000004	104.5823	105.1683	104.7896	1.4599e-01	1.0254e+00
116	VPW000005	139.1789	139.7649	139.4858	1.1276e-01	1.1647e+00
117	VPW000006	145.5341	145.9247	145.7374	1.1248e-01	1.1919e+00
118	IPW000001	558.6705	562.5752	561.3400	1.3032e+00	9.2345e+00
119	IPW000002	1275.0797	1280.9336	1277.8669	1.2596e+00	1.2943e+01
120	IPW000003	1310.0625	1313.9625	1311.5345	1.0923e+00	1.3152e+01
121	IPW000004	383.2163	384.6811	384.0233	3.6690e-01	3.6337e+00
122	IPW000005	253.1672	254.1437	253.7849	3.2715e-01	2.8319e+00
123	IPW000006	264.7329	266.1978	265.5801	3.6993e-01	2.8986e+00
124	EMPTY	-0.0293	-0.0146	-0.0220	4.2430e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0165	2.9594e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0193	3.4468e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0192	3.2155e-03	0.0000e+00
128	IHT000001	130.7580	133.4923	132.1251	5.4664e-01	4.3076e+00
129	IHT000002	130.3185	133.0529	131.5501	4.9508e-01	4.3059e+00
130	IHT000003	128.9964	131.9261	130.3517	4.8732e-01	4.3022e+00
131	IHT000004	131.5655	133.7139	132.6815	4.4574e-01	4.3093e+00
132	IHT000005	129.7101	132.0538	130.9257	4.7049e-01	4.3040e+00
133	IHT000006	125.6348	127.7832	126.5754	4.5574e-01	4.2909e+00
134	IHT000007	131.6519	133.9957	132.9393	5.0417e-01	4.3101e+00
135	IHT000008	130.6791	132.6322	131.6358	4.6876e-01	4.3061e+00
136	IHT000009	130.0143	132.1627	131.3096	5.2543e-01	4.3051e+00
137	IHT000010	130.7805	132.9289	131.5338	4.4036e-01	4.3058e+00
138	IHT000011	131.8397	133.4022	132.4536	3.4527e-01	4.3086e+00
139	IHT000012	130.8631	132.6209	131.5766	3.6442e-01	4.3060e+00
140	IHT000013	92.1124	93.8702	92.9693	3.7147e-01	4.2041e+00
141	IHT000014	128.0424	129.2142	128.5885	3.2871e-01	4.2969e+00
142	IHT000015	94.7566	96.3191	95.5419	3.6862e-01	4.2098e+00
143	IHT000016	88.8860	90.4485	89.7031	3.9803e-01	4.1970e+00
144	IHT000017	105.4950	107.6435	106.6869	5.2324e-01	4.2365e+00
145	IHT000018	107.4745	109.4276	108.4510	4.5631e-01	4.2410e+00
146	IHT000019	107.6510	109.9947	108.6115	4.7313e-01	4.2414e+00
147	IHT000020	106.0171	108.3609	106.8382	4.6661e-01	4.2369e+00
148	IHT000021	-2.7006	0.0338	-1.5686	5.5527e-01	4.1000e+00
149	IHT000022	92.8335	95.1773	93.6307	4.4545e-01	4.2056e+00
150	IHT000023	105.6415	107.3993	106.2793	4.0022e-01	4.2355e+00
151	IHT000024	70.8120	72.3745	71.5335	3.9709e-01	4.1619e+00
152	IHT000025	103.3767	104.9392	104.0383	4.0030e-01	4.2299e+00
153	IHT000026	105.4988	107.2566	106.3000	4.1094e-01	4.2356e+00
154	IHT000027	90.1668	92.3152	90.9361	4.2829e-01	4.1996e+00
155	IHT000028	90.7978	92.9462	91.5990	5.1404e-01	4.2011e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2913	108.0491	107.0487	4.7614e-01	4.2374e+00
157	IHT000030	108.8341	110.5919	109.6752	4.8535e-01	4.2442e+00
158	IHT000031	106.7007	108.8492	107.6334	5.5710e-01	4.2389e+00
159	IHT000032	107.3543	109.5027	108.3588	5.4809e-01	4.2408e+00
160	IHT000033	107.3618	109.5102	108.3224	5.3315e-01	4.2407e+00
161	IHT000034	93.7650	96.1088	94.8094	5.3866e-01	4.2082e+00
162	IHT000035	123.8657	126.4048	124.8383	5.5600e-01	4.2858e+00
163	IHT000036	92.2889	94.8280	93.5126	5.1021e-01	4.2053e+00

Velocity 1 = 0.010400 (ft/sec)
 Velocity 2 = 0.009800 (ft/sec)
 Pressure Drop = 0.003500 (psi)
 Tsat in = 0.102203 (deg F) Tsat out = 0.076813 (deg F)
 Phi inner = 0.058304 (kBtu/hr-ft2) Phi outer = 0.022598 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0133	0.0177
1	TRF000002	0.0123	0.0163
2	TFM000001	0.0756	0.0882
3	TIN000001	0.1018	0.1189
4	TRV000001	0.1075	0.1246
5	TSR000001	0.0628	0.0456
6	EMPTY	0.0520	0.1353
7	TAO050136	0.0075	0.0048
8	TAO070136	0.0741	0.0460
9	TAO080136	0.0451	0.0277
10	TAO090136	0.0626	0.0376
11	TAO100136	0.0040	0.0023
12	TAO105136	0.0625	0.0362
13	EMPTY	0.0080	0.0194
14	TAO115136	0.0861	0.0472
15	EMPTY	1.1601	3.1567
16	TAO125136	0.0186	0.0103
17	EMPTY	0.0215	0.0666
18	EMPTY	0.0258	0.0621
19	TAO130048	0.0444	0.0250
20	TAO120224	0.1084	0.0615
21	EMPTY	0.0211	0.0537
22	TAO120312	0.0009	0.0005
23	TAO130312	0.0242	0.0136
24	EMPTY	0.0102	0.0259
25	TRT070000	0.0032	0.0019
26	TRT100000	0.0158	0.0085
27	TRT120000	0.0791	0.0421
28	TRT125000	0.0352	0.0186
29	EMPTY	0.0020	0.0050
30	EMPTY	0.0405	0.1020
31	TAF050136	0.0034	0.0031
32	TAF070136	0.0307	0.0261
33	TAF080136	0.0623	0.0515
34	TAF090136	0.0091	0.0073
35	TAF100136	0.0565	0.0436
36	TAF105136	0.0010	0.0008
37	TAF110136	0.0337	0.0248
38	TAF115136	0.0023	0.0016
39	TAF120136	0.0947	0.0669
40	TAF125136	0.0421	0.0291
41	TAF130136	0.0338	0.0230
42	TAF120048	0.0046	0.0031
43	TAF130048	0.0416	0.0274
44	TAF120224	0.0526	0.0372
45	TAF130224	0.0165	0.0113

#	Name	Abs Diff	%Diff
46	EMPTY	0.0268	0.0707
47	EMPTY	0.0661	0.1680
48	TAI130048	0.0813	0.0432
49	TAI130136	0.0955	0.0521
50	TAI130224	0.5013	0.2772
51	TAI130312	0.0658	0.0357
52	TRR130000	0.2453	0.1893
53	TSI000001	0.0574	0.1318
54	TSI000002	0.0860	0.0874
55	TSO000001	0.0606	0.1428
56	TSO000002	0.0006	0.0012
57	TAF020136	0.0353	0.0366
58	EMPTY	0.0298	0.0691
59	TAF130312	0.0478	0.0313
60	EMPTY	0.0010	0.0491
61	EMPTY	0.0018	0.0882
62	EMPTY	0.0026	0.1272
63	EMPTY	0.0009	0.0439
64	EMPTY	0.0005	0.0493
65	EMPTY	0.0001	0.0097
66	EMPTY	0.0004	0.0383
67	EMPTY	0.0008	0.0756
68	EMPTY	0.0008	0.0748
69	EMPTY	0.0005	0.0462
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0003	0.0269
72	EMPTY	0.0010	0.0888
73	EMPTY	0.0006	0.0525
74	EMPTY	0.0002	0.0174
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0001	0.0085
77	EMPTY	0.0002	0.0168
78	EMPTY	0.0003	0.0247
79	EMPTY	0.0003	0.0243
80	PAN020136	0.1323	1.4502
81	PAN050136	0.0107	0.0589
82	PAN070136	0.0232	0.2019
83	PAN080136	0.0097	0.1540
84	PAN090136	0.0171	0.2663
85	PAN100136	0.0145	0.2371
86	PAN105136	0.0029	0.1367
87	PAN110136	0.0105	0.3954
88	PAN115136	0.0014	0.0501
89	PAN120136	0.0137	0.4386
90	PAN125136	0.0053	0.1464
91	PAN130136	0.0136	0.4185
92	PAN120048	0.0169	0.2426
93	PAN130048	0.0083	0.1295
94	PAN120224	0.0142	0.2398
95	PAN130224	0.0052	0.0776
96	PAN120312	0.0108	0.1792
97	PAN130312	0.0007	0.0102
98	PAB000136	0.0694	0.1712
99	PAB100136	0.0641	0.1509
100	PAB125136	0.0549	0.1276

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0234	0.0580
102	PRV000001	0.0238	0.1187
103	PSR000001	0.0478	0.1107
104	PFM000001	0.0258	0.2610
105	PAN000136	0.0954	0.1268
106	PFM000002	0.0241	0.2491
107	EMPTY	0.0002	4.5455
108	EMPTY	0.1023	1.6164
109	EMPTY	0.0002	15.3846
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0006	75.0000
112	VPW000001	0.0743	0.0730
113	VPW000002	0.0166	0.0140
114	VPW000003	0.0309	0.0210
115	VPW000004	0.0432	0.0412
116	VPW000005	0.0602	0.0431
117	VPW000006	0.0506	0.0347
118	IPW000001	0.0249	0.0044
119	IPW000002	0.4459	0.0349
120	IPW000003	0.5553	0.0423
121	IPW000004	0.2895	0.0754
122	IPW000005	0.0221	0.0087
123	IPW000006	0.0026	0.0010
124	EMPTY	0.0005	2.2222
125	EMPTY	0.0005	3.1250
126	EMPTY	0.0005	2.6596
127	EMPTY	0.0000	0.0000
128	IHT000001	0.0781	0.0591
129	IHT000002	0.0614	0.0467
130	IHT000003	0.0744	0.0570
131	IHT000004	0.0363	0.0274
132	IHT000005	0.0343	0.0262
133	IHT000006	0.0031	0.0024
134	IHT000007	0.0374	0.0281
135	IHT000008	0.0074	0.0056
136	IHT000009	0.0249	0.0190
137	IHT000010	0.0552	0.0420
138	IHT000011	0.0697	0.0526
139	IHT000012	0.0298	0.0227
140	IHT000013	0.0523	0.0563
141	IHT000014	0.0321	0.0250
142	IHT000015	0.0470	0.0492
143	IHT000016	0.0188	0.0210
144	IHT000017	0.3676	0.3458
145	IHT000018	0.2422	0.2238
146	IHT000019	0.0746	0.0686
147	IHT000020	0.0578	0.0541
148	IHT000021	0.0477	3.1363
149	IHT000022	0.0387	0.0413
150	IHT000023	0.0284	0.0267
151	IHT000024	0.0144	0.0201
152	IHT000025	0.0249	0.0239
153	IHT000026	0.0160	0.0151
154	IHT000027	0.0354	0.0389
155	IHT000028	0.0386	0.0421

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0855	0.0799
157	IHT000030	0.0325	0.0296
158	IHT000031	0.0694	0.0645
159	IHT000032	0.0787	0.0727
160	IHT000033	0.0934	0.0863
161	IHT000034	0.1146	0.1210
162	IHT000035	0.0624	0.0500
163	IHT000036	0.1612	0.1727

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Velocity 1 = 6.9942 (ft/sec) (+/- 4.8127 %)

Velocity 2 = 6.8849 (ft/sec) (+/- 3.6856 %)

Pressure drop = -3.3048 (psi)

Tsats in = 268.1751 (deg F) Tsats out = 272.6519 (deg F)

Phi inner = 100.7894 (kBtu/hr-ft2) (+/- 1.5694 %)

Phi outer = 100.7694 (kBtu/hr-ft2) (+/- 1.5518 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8473	75.6974	75.2639	1.7154e-01	1.9000e+00
1	TRF000002	75.3537	75.9879	75.6032	1.3296e-01	1.9000e+00
2	TFM000001	86.7537	87.5919	87.1668	2.1110e-01	1.9002e+00
3	TIN000001	86.8292	87.3546	87.1211	1.4434e-01	1.9002e+00
4	TRV000001	88.3543	89.4002	88.7959	2.0511e-01	1.9002e+00
5	TSR000001	145.2530	145.9541	145.5994	1.7655e-01	1.9038e+00
6	EMPTY	37.7675	38.9168	38.3422	2.4241e-01	1.9010e+00
7	TAO050136	164.8097	165.4010	165.0832	1.4687e-01	1.9061e+00
8	TAO070136	170.6707	171.5599	171.0243	1.9460e-01	1.9069e+00
9	TAO080136	172.7486	173.5327	173.2013	1.6548e-01	1.9072e+00
10	TAO090136	176.7666	177.8436	177.3443	2.2310e-01	1.9077e+00
11	TAO100136	182.2638	183.0446	182.6445	1.9243e-01	1.9085e+00
12	TAO105136	184.0333	185.1071	184.4181	2.4268e-01	1.9088e+00
13	EMPTY	40.9819	41.4403	41.2936	1.2896e-01	1.9011e+00
14	TAO115136	195.2547	196.2248	195.6723	2.1586e-01	1.9106e+00
15	EMPTY	32.0000	41.6693	37.6580	2.6418e+00	1.9010e+00
16	TAO125136	193.7711	194.4476	194.0244	1.6563e-01	1.9103e+00
17	EMPTY	31.9235	32.6248	32.3070	1.8749e-01	1.9007e+00
18	EMPTY	41.4403	41.6693	41.5090	1.0604e-01	1.9012e+00
19	TAO130048	190.5927	191.1749	190.8358	1.4025e-01	1.9098e+00
20	TAO120224	187.8531	189.0204	188.4312	2.1829e-01	1.9094e+00
21	EMPTY	38.9168	39.3761	39.1786	1.4679e-01	1.9010e+00
22	TAO120312	197.7258	198.5962	198.1844	2.0289e-01	1.9110e+00
23	TAO130312	191.1519	191.7337	191.4021	1.5310e-01	1.9099e+00
24	EMPTY	39.1464	39.6057	39.3898	1.8210e-01	1.9010e+00
25	TRT070000	183.6526	184.3399	183.9566	1.7629e-01	1.9087e+00
26	TRT100000	199.7682	200.4434	200.0906	1.9131e-01	1.9114e+00
27	TRT120000	201.4062	202.2729	201.7743	1.8737e-01	1.9117e+00
28	TRT125000	202.4824	203.4414	202.9826	2.0353e-01	1.9119e+00
29	EMPTY	39.8352	40.0646	39.9453	1.1580e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6837	2.1557e-01	1.9011e+00
31	TAF050136	114.7154	115.7389	115.2329	2.1223e-01	1.9014e+00
32	TAF070136	123.2517	124.7739	123.8595	3.5329e-01	1.9020e+00
33	TAF080136	127.2520	128.3642	127.7956	2.7979e-01	1.9022e+00
34	TAF090136	130.4439	131.7618	131.1963	3.4678e-01	1.9025e+00
35	TAF100136	136.8000	137.9119	137.4812	2.4812e-01	1.9031e+00
36	TAF105136	140.5246	141.7244	141.0788	2.5230e-01	1.9034e+00
37	TAF110136	144.4017	145.4024	144.8640	2.2845e-01	1.9038e+00
38	TAF115136	147.4607	148.7597	148.2181	2.4972e-01	1.9041e+00
39	TAF120136	150.8147	151.5130	151.1004	1.7198e-01	1.9044e+00
40	TAF125136	153.6230	155.0105	154.2828	3.1420e-01	1.9048e+00
41	TAF130136	156.6012	157.4948	156.8973	1.8765e-01	1.9051e+00
42	TAF120048	158.3092	159.5087	158.8949	3.0265e-01	1.9053e+00
43	TAF130048	162.3534	163.3437	162.8033	2.2643e-01	1.9058e+00
44	TAF120224	150.4889	151.3871	150.8902	2.3461e-01	1.9044e+00
45	TAF130224	155.1205	156.0195	155.5258	1.9078e-01	1.9049e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.8548	1.5332e-01	1.9010e+00
47	EMPTY	38.9168	39.6057	39.3026	1.4989e-01	1.9010e+00
48	TAI130048	201.4594	202.0376	201.7157	1.3857e-01	1.9117e+00
49	TAI130136	195.7168	196.3935	196.0900	1.4219e-01	1.9107e+00
50	TAI130224	175.5582	176.1477	175.9019	1.6272e-01	1.9075e+00
51	TAI130312	193.2380	194.0140	193.6859	1.7066e-01	1.9103e+00
52	TRR130000	134.3901	135.7011	135.1021	3.1782e-01	1.9029e+00
53	TSI000001	42.5641	43.3251	42.9707	1.8868e-01	1.9005e+00
54	TSI000002	102.7705	103.8056	103.2904	2.7522e-01	1.9007e+00
55	TSO000001	41.3118	42.2964	41.8742	1.9384e-01	1.9005e+00
56	TSO000002	51.9385	52.8023	52.3595	1.9178e-01	1.9002e+00
57	TAF020136	98.7209	99.8692	99.2960	2.7451e-01	1.9006e+00
58	EMPTY	42.5851	43.5000	43.1204	2.1972e-01	1.9013e+00
59	TAF130312	164.0392	165.2243	164.6377	2.4383e-01	1.9060e+00
60	EMPTY	2.3145	2.3242	2.3196	2.8608e-03	0.0000e+00
61	EMPTY	2.3145	2.3242	2.3198	1.7784e-03	0.0000e+00
62	EMPTY	2.3193	2.3242	2.3210	2.3365e-03	0.0000e+00
63	EMPTY	2.3242	2.3340	2.3272	2.5894e-03	0.0000e+00
64	EMPTY	1.1377	1.1377	1.1377	0.0000e+00	0.0000e+00
65	EMPTY	1.1523	1.1572	1.1528	1.4797e-03	0.0000e+00
66	EMPTY	1.1621	1.1670	1.1661	1.8950e-03	0.0000e+00
67	EMPTY	1.1768	1.1816	1.1771	1.1714e-03	0.0000e+00
68	EMPTY	1.1865	1.1914	1.1872	1.7115e-03	0.0000e+00
69	EMPTY	1.2012	1.2061	1.2014	9.6655e-04	0.0000e+00
70	EMPTY	1.2109	1.2158	1.2136	2.4583e-03	0.0000e+00
71	EMPTY	1.2305	1.2354	1.2331	2.4583e-03	0.0000e+00
72	EMPTY	1.2402	1.2451	1.2436	2.3008e-03	0.0000e+00
73	EMPTY	1.2549	1.2598	1.2559	1.9730e-03	0.0000e+00
74	EMPTY	1.2646	1.2695	1.2681	2.2603e-03	0.0000e+00
75	EMPTY	1.2793	1.2842	1.2812	2.3941e-03	0.0000e+00
76	EMPTY	1.2891	1.2939	1.2913	2.4583e-03	0.0000e+00
77	EMPTY	1.3037	1.3184	1.3082	2.1702e-03	0.0000e+00
78	EMPTY	1.3232	1.3281	1.3259	2.4583e-03	0.0000e+00
79	EMPTY	1.3428	1.3477	1.3457	2.4164e-03	0.0000e+00
80	PAN020136	-12.0264	-11.1109	-11.4954	2.1522e-01	8.7047e-01
81	PAN050136	-22.5252	-21.9149	-22.2597	1.5962e-01	1.6809e+00
82	PAN070136	-14.6305	-14.0964	-14.4092	1.1663e-01	8.7075e-01
83	PAN080136	-7.6542	-7.1964	-7.4695	9.2598e-02	8.7020e-01
84	PAN090136	-7.9477	-7.6425	-7.7371	6.0801e-02	8.7021e-01
85	PAN100136	-7.5442	-7.2390	-7.3840	6.9362e-02	8.7020e-01
86	PAN105136	-3.1831	-2.8779	-3.0564	6.4682e-02	8.7003e-01
87	PAN110136	-3.5924	-3.1346	-3.4398	1.0107e-01	8.7004e-01
88	PAN115136	-3.9444	-3.4103	-3.7415	1.1800e-01	8.7005e-01
89	PAN120136	-3.6437	-3.1859	-3.4377	1.0369e-01	8.7004e-01
90	PAN125136	-4.2615	-4.0326	-4.1302	6.7257e-02	8.7006e-01
91	PAN130136	-3.9196	-3.6907	-3.8235	6.3196e-02	8.7005e-01
92	PAN120048	-8.5814	-7.9711	-8.2381	1.4562e-01	8.7024e-01
93	PAN130048	-7.8361	-7.1494	-7.5309	1.5491e-01	8.7020e-01
94	PAN120224	-7.2859	-7.0570	-7.1714	7.4322e-02	8.7018e-01
95	PAN130224	-7.8684	-7.6395	-7.7432	5.7176e-02	8.7022e-01
96	PAN120312	-7.4032	-7.0981	-7.2583	7.1054e-02	8.7019e-01
97	PAN130312	-8.0195	-7.7143	-7.8379	6.1443e-02	8.7022e-01
98	PAB000136	40.3613	40.8190	40.5444	8.7248e-02	5.8879e-01
99	PAB100136	42.8737	43.1026	42.9771	6.5270e-02	5.8987e-01
100	PAB125136	43.5779	43.8068	43.6850	6.7714e-02	5.9019e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0188	40.6292	40.3630	1.5140e-01	7.5676e-01
102	PRV000001	19.2669	19.3890	19.3426	5.9853e-02	7.5156e-01
103	PSR000001	43.8241	43.9462	43.8876	6.1605e-02	7.5798e-01
104	PFM000001	7.3067	7.6729	7.4989	8.1153e-02	5.0035e-01
105	PAN000136	-93.9207	-88.4275	-91.4945	1.2208e+00	4.9253e+00
106	PFM000002	7.1834	7.3344	7.2632	3.7530e-02	2.0082e-01
107	EMPTY	-0.0049	0.0049	0.0024	3.3087e-03	0.0000e+00
108	EMPTY	-6.9482	-5.7617	-6.4775	2.3569e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0009	1.8950e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.7578	102.3438	102.1406	1.6250e-01	1.0157e+00
113	VPW000002	118.7462	119.1369	118.9181	8.4997e-02	1.0794e+00
114	VPW000003	146.8262	147.4121	147.1074	1.1942e-01	1.1980e+00
115	VPW000004	104.7777	105.1683	104.9496	1.1599e-01	1.0260e+00
116	VPW000005	139.1789	139.7649	139.5343	1.2283e-01	1.1649e+00
117	VPW000006	145.7294	146.1200	145.8466	1.1838e-01	1.1924e+00
118	IPW000001	541.0994	546.9564	543.4812	1.4379e+00	9.1676e+00
119	IPW000002	1306.3000	1319.9590	1315.1195	3.4646e+00	1.3174e+01
120	IPW000003	1327.6125	1335.4125	1332.0190	2.1510e+00	1.3279e+01
121	IPW000004	379.7983	380.7749	380.1790	3.3146e-01	3.6084e+00
122	IPW000005	253.1672	254.1437	253.6358	3.8152e-01	2.8311e+00
123	IPW000006	266.6861	268.6392	267.5358	4.2784e-01	2.9098e+00
124	EMPTY	-0.0293	-0.0098	-0.0195	4.1853e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0128	3.2554e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0167	3.9570e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0145	3.9410e-03	0.0000e+00
128	IHT000001	130.9533	133.1017	132.0392	4.6213e-01	4.3074e+00
129	IHT000002	130.5138	132.4669	131.5138	4.4229e-01	4.3058e+00
130	IHT000003	129.5823	131.1448	130.3636	4.3405e-01	4.3023e+00
131	IHT000004	131.7608	133.7139	132.6905	4.4039e-01	4.3094e+00
132	IHT000005	130.1007	132.0538	130.9327	4.5130e-01	4.3040e+00
133	IHT000006	125.6348	127.5879	126.5723	4.3940e-01	4.2909e+00
134	IHT000007	131.8472	133.8003	132.8902	4.2059e-01	4.3100e+00
135	IHT000008	130.6791	132.8275	131.7026	4.5602e-01	4.3063e+00
136	IHT000009	130.2096	132.7487	131.2642	4.5847e-01	4.3050e+00
137	IHT000010	130.9758	132.7336	131.8156	4.4860e-01	4.3067e+00
138	IHT000011	131.8397	133.5975	132.7733	3.8112e-01	4.3096e+00
139	IHT000012	131.0584	132.8162	131.7616	3.7016e-01	4.3065e+00
140	IHT000013	92.5030	94.2608	93.2725	3.4038e-01	4.2048e+00
141	IHT000014	128.2377	129.6049	128.9252	3.4903e-01	4.2979e+00
142	IHT000015	95.3425	96.5144	95.9012	3.3946e-01	4.2107e+00
143	IHT000016	89.2766	90.8391	90.0735	3.4814e-01	4.1978e+00
144	IHT000017	103.9325	107.2528	105.8310	8.4080e-01	4.2344e+00
145	IHT000018	106.8885	109.0370	108.2010	5.1605e-01	4.2404e+00
146	IHT000019	107.6510	109.7994	108.4595	4.6356e-01	4.2410e+00
147	IHT000020	105.8218	107.5796	106.6616	4.5034e-01	4.2365e+00
148	IHT000021	-2.8959	-0.5521	-1.6888	5.5760e-01	4.1000e+00
149	IHT000022	92.6382	94.3960	93.5757	4.3225e-01	4.2054e+00
150	IHT000023	105.0556	107.2040	106.1376	4.5713e-01	4.2352e+00
151	IHT000024	70.4214	72.1792	71.3472	4.2096e-01	4.1616e+00
152	IHT000025	102.9860	104.5485	103.9235	3.9656e-01	4.2297e+00
153	IHT000026	105.1082	107.0613	106.1824	4.1806e-01	4.2353e+00
154	IHT000027	90.1668	91.9246	90.9949	3.9961e-01	4.1998e+00
155	IHT000028	90.7978	93.1415	91.6923	5.0237e-01	4.2013e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.9007	108.0491	106.9632	4.9152e-01	4.2372e+00
157	IHT000030	108.6388	110.7873	109.6037	4.7582e-01	4.2440e+00
158	IHT000031	106.5054	108.6539	107.5601	4.9599e-01	4.2387e+00
159	IHT000032	107.3543	109.3074	108.2488	4.8180e-01	4.2405e+00
160	IHT000033	107.1665	109.3149	108.2134	4.9875e-01	4.2404e+00
161	IHT000034	93.7650	95.9135	94.8627	4.9739e-01	4.2083e+00
162	IHT000035	123.6704	125.8188	124.7563	4.8993e-01	4.2856e+00
163	IHT000036	92.4842	94.6326	93.6092	5.1382e-01	4.2055e+00

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Velocity 1 = 6.9883 (ft/sec) (+/- 4.8167 %)

Velocity 2 = 6.8935 (ft/sec) (+/- 3.6845 %)

Pressure drop = -3.3148 (psi)

Tsats in = 268.2700 (deg F) Tsats out = 272.7452 (deg F)

Phi inner = 100.8751 (kBtu/hr-ft2) (+/- 1.5692 %)

Phi outer = 100.7524 (kBtu/hr-ft2) (+/- 1.5518 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8473	75.6974	75.2811	1.7866e-01	1.9000e+00
1	TRF000002	75.5651	75.9879	75.6687	1.1516e-01	1.9000e+00
2	TFM000001	86.6495	87.5924	87.2650	1.9567e-01	1.9002e+00
3	TIN000001	86.7239	87.5641	87.1463	1.6400e-01	1.9002e+00
4	TRV000001	88.1462	88.9826	88.5556	1.9311e-01	1.9002e+00
5	TSR000001	145.1533	146.0537	145.5312	1.6999e-01	1.9038e+00
6	EMPTY	37.7675	38.9168	38.4337	2.4934e-01	1.9010e+00
7	TAO050136	164.7105	165.4996	165.0708	1.7950e-01	1.9061e+00
8	TAO070136	170.4727	171.4608	171.0454	2.2920e-01	1.9069e+00
9	TAO080136	172.8467	173.6301	173.1927	1.7340e-01	1.9072e+00
10	TAO090136	177.0598	177.9414	177.4280	2.1578e-01	1.9078e+00
11	TAO100136	182.1659	183.0446	182.6165	1.6290e-01	1.9085e+00
12	TAO105136	183.9355	184.8141	184.4139	2.0348e-01	1.9088e+00
13	EMPTY	40.9819	41.4403	41.2579	1.1438e-01	1.9011e+00
14	TAO115136	195.3513	196.0310	195.6727	1.9439e-01	1.9106e+00
15	EMPTY	31.5371	41.8984	37.4389	2.9786e+00	1.9009e+00
16	TAO125136	193.7711	194.3519	194.0336	1.6030e-01	1.9103e+00
17	EMPTY	31.9235	32.8585	32.3291	2.0674e-01	1.9007e+00
18	EMPTY	41.4403	41.6693	41.5525	1.1570e-01	1.9012e+00
19	TAO130048	190.5942	191.1749	190.8901	1.6363e-01	1.9098e+00
20	TAO120224	188.0482	188.9230	188.4648	1.9649e-01	1.9094e+00
21	EMPTY	38.9168	39.6057	39.3011	1.5107e-01	1.9010e+00
22	TAO120312	197.8227	198.6932	198.2292	2.3769e-01	1.9110e+00
23	TAO130312	191.1519	191.7336	191.4191	1.4066e-01	1.9099e+00
24	EMPTY	39.1464	39.8352	39.4089	1.9884e-01	1.9010e+00
25	TRT070000	183.5539	184.4358	183.9706	1.9866e-01	1.9087e+00
26	TRT100000	199.6724	200.5396	200.0835	2.0129e-01	1.9114e+00
27	TRT120000	201.5022	202.1773	201.8486	1.6208e-01	1.9117e+00
28	TRT125000	202.5789	203.3454	202.9696	1.9554e-01	1.9119e+00
29	EMPTY	39.8352	40.0646	39.9429	1.1570e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6759	2.2571e-01	1.9011e+00
31	TAF050136	114.7149	115.8409	115.2186	2.2481e-01	1.9014e+00
32	TAF070136	123.2517	124.7739	123.9155	3.5303e-01	1.9020e+00
33	TAF080136	127.1523	128.1622	127.8111	2.2869e-01	1.9023e+00
34	TAF090136	130.6474	131.8629	131.3212	2.8013e-01	1.9025e+00
35	TAF100136	136.9009	138.0127	137.4373	2.8442e-01	1.9031e+00
36	TAF105136	140.5266	141.7244	141.1210	2.6582e-01	1.9034e+00
37	TAF110136	144.5018	145.5024	144.9326	2.0025e-01	1.9038e+00
38	TAF115136	147.7604	148.7602	148.2519	2.0785e-01	1.9041e+00
39	TAF120136	150.8164	151.4134	151.1409	1.4769e-01	1.9044e+00
40	TAF125136	153.8209	154.9111	154.3369	2.7061e-01	1.9048e+00
41	TAF130136	156.7004	157.6927	157.0390	2.0658e-01	1.9051e+00
42	TAF120048	158.4083	159.6077	158.9780	2.8696e-01	1.9053e+00
43	TAF130048	162.4527	163.5414	162.9194	2.1758e-01	1.9058e+00
44	TAF120224	150.5891	151.3871	151.0327	2.0063e-01	1.9044e+00
45	TAF130224	155.2198	156.1191	155.6563	2.0255e-01	1.9049e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.3074	38.2273	37.8003	1.9919e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2870	1.5415e-01	1.9010e+00
48	TAI130048	201.5555	202.1342	201.8644	1.1970e-01	1.9117e+00
49	TAI130136	195.9095	196.4896	196.1548	1.2954e-01	1.9107e+00
50	TAI130224	175.6561	176.4420	176.0070	1.9024e-01	1.9076e+00
51	TAI130312	193.4319	194.1106	193.7761	1.5214e-01	1.9103e+00
52	TRR130000	134.6938	136.0029	135.3428	2.9305e-01	1.9029e+00
53	TSI000001	42.6733	43.3244	43.0012	1.7254e-01	1.9005e+00
54	TSI000002	102.9772	104.1148	103.5435	2.6784e-01	1.9008e+00
55	TSO000001	41.5308	42.5146	41.9971	2.0057e-01	1.9005e+00
56	TSO000002	52.0461	52.6947	52.3659	1.7072e-01	1.9002e+00
57	TAF020136	98.8259	99.8716	99.3310	2.5535e-01	1.9006e+00
58	EMPTY	42.5851	43.5000	43.0753	2.3344e-01	1.9012e+00
59	TAF130312	164.1384	165.2243	164.6097	2.4950e-01	1.9060e+00
60	EMPTY	2.3096	2.3193	2.3171	2.6485e-03	0.0000e+00
61	EMPTY	2.3145	2.3193	2.3184	1.9103e-03	0.0000e+00
62	EMPTY	2.3145	2.3193	2.3191	9.7615e-04	0.0000e+00
63	EMPTY	2.3193	2.3291	2.3255	2.3953e-03	0.0000e+00
64	EMPTY	1.1328	1.1377	1.1371	1.6172e-03	0.0000e+00
65	EMPTY	1.1475	1.1523	1.1521	9.7615e-04	0.0000e+00
66	EMPTY	1.1621	1.1670	1.1631	1.9883e-03	0.0000e+00
67	EMPTY	1.1768	1.1816	1.1769	6.9754e-04	0.0000e+00
68	EMPTY	1.1816	1.1914	1.1866	1.2165e-03	0.0000e+00
69	EMPTY	1.2012	1.2012	1.2012	0.0000e+00	0.0000e+00
70	EMPTY	1.2109	1.2158	1.2112	1.1827e-03	0.0000e+00
71	EMPTY	1.2305	1.2354	1.2308	1.1827e-03	0.0000e+00
72	EMPTY	1.2402	1.2451	1.2404	9.7615e-04	0.0000e+00
73	EMPTY	1.2500	1.2598	1.2550	1.2165e-03	0.0000e+00
74	EMPTY	1.2646	1.2695	1.2659	2.1781e-03	0.0000e+00
75	EMPTY	1.2793	1.2842	1.2795	9.7615e-04	0.0000e+00
76	EMPTY	1.2891	1.2939	1.2894	1.1827e-03	0.0000e+00
77	EMPTY	1.3037	1.3086	1.3068	2.3783e-03	0.0000e+00
78	EMPTY	1.3232	1.3281	1.3239	1.7263e-03	0.0000e+00
79	EMPTY	1.3428	1.3477	1.3442	2.2287e-03	0.0000e+00
80	PAN020136	-11.9501	-11.1872	-11.5126	2.1112e-01	8.7048e-01
81	PAN050136	-22.6778	-21.7623	-22.1889	1.8421e-01	1.6809e+00
82	PAN070136	-14.6305	-14.1727	-14.4094	1.2088e-01	8.7075e-01
83	PAN080136	-7.6542	-7.2727	-7.4393	1.0409e-01	8.7020e-01
84	PAN090136	-7.7951	-7.5662	-7.7157	6.0234e-02	8.7021e-01
85	PAN100136	-7.5442	-7.2390	-7.3636	5.7630e-02	8.7019e-01
86	PAN105136	-3.2593	-2.8779	-3.0803	7.8721e-02	8.7003e-01
87	PAN110136	-3.5924	-3.2872	-3.4336	7.4422e-02	8.7004e-01
88	PAN115136	-3.8681	-3.4103	-3.6517	8.8573e-02	8.7005e-01
89	PAN120136	-3.7962	-3.4911	-3.5798	7.8406e-02	8.7005e-01
90	PAN125136	-4.2615	-4.0326	-4.1431	5.4085e-02	8.7006e-01
91	PAN130136	-3.9959	-3.6907	-3.8386	6.8608e-02	8.7005e-01
92	PAN120048	-8.5814	-8.0474	-8.2794	1.3926e-01	8.7025e-01
93	PAN130048	-7.7598	-7.2257	-7.5776	1.2441e-01	8.7021e-01
94	PAN120224	-7.2859	-6.5992	-7.1006	1.6334e-01	8.7018e-01
95	PAN130224	-7.8684	-7.5632	-7.7578	6.6185e-02	8.7022e-01
96	PAN120312	-7.4795	-7.1744	-7.2865	7.1540e-02	8.7019e-01
97	PAN130312	-8.0195	-7.7143	-7.8451	7.1366e-02	8.7022e-01
98	PAB000136	40.4528	40.7275	40.6089	7.8689e-02	5.8882e-01
99	PAB100136	42.9653	43.1026	43.0260	4.3213e-02	5.8989e-01
100	PAB125136	43.6695	43.8068	43.7526	4.3501e-02	5.9022e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1409	40.7512	40.4772	1.3541e-01	7.5680e-01
102	PRV000001	19.3890	19.3890	19.3890	1.3490e-05	7.5156e-01
103	PSR000001	43.9462	44.0683	43.9686	4.7758e-02	7.5801e-01
104	PFM000001	7.3067	7.5813	7.4860	8.1372e-02	5.0035e-01
105	PAN000136	-94.3784	-88.4275	-91.7720	1.2647e+00	4.9253e+00
106	PFM000002	7.2169	7.3679	7.2816	3.4080e-02	2.0083e-01
107	EMPTY	-0.0049	0.0049	-0.0035	2.9901e-03	0.0000e+00
108	EMPTY	-7.0215	-5.9375	-6.5082	2.3031e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0012	2.3440e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0009	1.9103e-03	0.0000e+00
112	VPW000001	101.5625	102.5391	102.0408	2.7350e-01	1.0154e+00
113	VPW000002	118.7462	119.1369	118.8538	1.1319e-01	1.0792e+00
114	VPW000003	146.8262	147.2168	147.0932	1.1059e-01	1.1979e+00
115	VPW000004	104.5823	105.1683	104.8733	1.2041e-01	1.0257e+00
116	VPW000005	139.3743	139.7649	139.5097	1.1419e-01	1.1648e+00
117	VPW000006	145.5341	145.9247	145.7693	1.4363e-01	1.1921e+00
118	IPW000001	539.1471	546.9564	542.3743	2.1664e+00	9.1635e+00
119	IPW000002	1316.0564	1321.9102	1317.4895	1.3075e+00	1.3189e+01
120	IPW000003	1329.5625	1337.3625	1333.2233	1.9755e+00	1.3287e+01
121	IPW000004	378.8217	380.2866	379.3298	3.7239e-01	3.6028e+00
122	IPW000005	253.1672	254.6319	253.9643	3.6880e-01	2.8329e+00
123	IPW000006	267.1743	268.6392	267.9617	3.5682e-01	2.9123e+00
124	EMPTY	-0.0342	-0.0146	-0.0238	4.0649e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0162	2.7091e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0189	3.0934e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0174	3.7293e-03	0.0000e+00
128	IHT000001	131.1486	133.4923	132.1171	5.3482e-01	4.3076e+00
129	IHT000002	130.5138	133.0529	131.5541	5.4575e-01	4.3059e+00
130	IHT000003	129.5823	131.9261	130.4593	5.3950e-01	4.3026e+00
131	IHT000004	131.7608	133.9093	132.7373	4.8007e-01	4.3095e+00
132	IHT000005	130.1007	131.8585	130.9496	4.3955e-01	4.3040e+00
133	IHT000006	125.8301	127.7832	126.6312	4.2050e-01	4.2911e+00
134	IHT000007	132.4332	133.9957	132.9872	4.2818e-01	4.3103e+00
135	IHT000008	131.0697	132.6322	131.7354	4.6820e-01	4.3064e+00
136	IHT000009	130.6002	132.1627	131.3375	4.3356e-01	4.3052e+00
137	IHT000010	130.1946	132.5383	131.5497	4.6734e-01	4.3059e+00
138	IHT000011	131.4491	133.4022	132.3141	4.1623e-01	4.3082e+00
139	IHT000012	130.4725	132.4256	131.4052	4.1483e-01	4.3054e+00
140	IHT000013	92.1124	94.4561	92.9334	4.6661e-01	4.2040e+00
141	IHT000014	127.6517	129.8002	128.4251	4.6827e-01	4.2964e+00
142	IHT000015	94.5613	96.9050	95.4741	4.7238e-01	4.2097e+00
143	IHT000016	89.0813	90.8391	89.7549	4.6504e-01	4.1971e+00
144	IHT000017	103.7372	106.6669	105.2479	7.8912e-01	4.2329e+00
145	IHT000018	106.6932	109.0370	107.8252	4.9149e-01	4.2394e+00
146	IHT000019	107.6510	109.6041	108.6155	5.0019e-01	4.2414e+00
147	IHT000020	105.8218	107.7749	106.7465	4.7471e-01	4.2367e+00
148	IHT000021	-2.8959	-0.3568	-1.6921	5.7822e-01	4.1000e+00
149	IHT000022	92.8335	94.5913	93.6427	4.4752e-01	4.2056e+00
150	IHT000023	105.0556	107.2040	106.1557	4.6782e-01	4.2352e+00
151	IHT000024	70.4214	72.1792	71.3501	4.3222e-01	4.1616e+00
152	IHT000025	102.9860	104.5485	103.9187	4.1864e-01	4.2296e+00
153	IHT000026	105.1082	107.0613	106.1685	4.6664e-01	4.2352e+00
154	IHT000027	89.9715	91.9246	90.9998	4.5417e-01	4.1998e+00
155	IHT000028	90.6025	92.9462	91.6309	5.8427e-01	4.2011e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.7054	108.0491	106.8175	5.5128e-01	4.2369e+00
157	IHT000030	108.4435	110.7873	109.4520	5.3984e-01	4.2436e+00
158	IHT000031	106.3101	108.6539	107.4062	5.2410e-01	4.2383e+00
159	IHT000032	107.1590	109.6980	108.1515	5.3761e-01	4.2402e+00
160	IHT000033	106.9711	109.7055	108.1431	5.4373e-01	4.2402e+00
161	IHT000034	93.7650	96.3041	94.8732	5.1888e-01	4.2083e+00
162	IHT000035	123.4751	126.2095	124.8223	5.2626e-01	4.2858e+00
163	IHT000036	92.6795	94.6326	93.5245	4.8237e-01	4.2053e+00

Velocity 1 = 0.005900 (ft/sec)
 Velocity 2 = 0.008600 (ft/sec)
 Pressure Drop = 0.010000 (psi)
 Tsat in = 0.094879 (deg F) Tsat out = 0.093323 (deg F)
 Phi inner = 0.085701 (kBtu/hr-ft2) Phi outer = 0.016998 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0172	0.0228
1	TRF000002	0.0655	0.0866
2	TFM000001	0.0982	0.1127
3	TIN000001	0.0252	0.0289
4	TRV000001	0.2403	0.2706
5	TSR000001	0.0682	0.0468
6	EMPTY	0.0915	0.2386
7	TAO050136	0.0124	0.0075
8	TAO070136	0.0211	0.0123
9	TAO080136	0.0086	0.0050
10	TAO090136	0.0837	0.0472
11	TAO100136	0.0280	0.0153
12	TAO105136	0.0042	0.0023
13	EMPTY	0.0357	0.0864
14	TAO115136	0.0004	0.0002
15	EMPTY	0.2191	0.5818
16	TAO125136	0.0092	0.0047
17	EMPTY	0.0221	0.0684
18	EMPTY	0.0435	0.1048
19	TAO130048	0.0543	0.0285
20	TAO120224	0.0336	0.0178
21	EMPTY	0.1225	0.3127
22	TAO120312	0.0448	0.0226
23	TAO130312	0.0170	0.0089
24	EMPTY	0.0191	0.0485
25	TRT070000	0.0140	0.0076
26	TRT100000	0.0071	0.0036
27	TRT120000	0.0743	0.0368
28	TRT125000	0.0130	0.0064
29	EMPTY	0.0024	0.0060
30	EMPTY	0.0078	0.0197
31	TAF050136	0.0143	0.0124
32	TAF070136	0.0560	0.0452
33	TAF080136	0.0155	0.0121
34	TAF090136	0.1249	0.0952
35	TAF100136	0.0439	0.0319
36	TAF105136	0.0422	0.0299
37	TAF110136	0.0686	0.0474
38	TAF115136	0.0338	0.0228
39	TAF120136	0.0405	0.0268
40	TAF125136	0.0541	0.0351
41	TAF130136	0.1417	0.0903
42	TAF120048	0.0831	0.0523
43	TAF130048	0.1161	0.0713
44	TAF120224	0.1425	0.0944
45	TAF130224	0.1305	0.0839

#	Name	Abs Diff	%Diff
46	EMPTY	0.0545	0.1440
47	EMPTY	0.0156	0.0397
48	TAI130048	0.1487	0.0737
49	TAI130136	0.0648	0.0330
50	TAI130224	0.1051	0.0598
51	TAI130312	0.0902	0.0466
52	TRR130000	0.2407	0.1782
53	TSI000001	0.0305	0.0710
54	TSI000002	0.2531	0.2450
55	TSO000001	0.1229	0.2935
56	TSO000002	0.0064	0.0122
57	TAF020136	0.0350	0.0353
58	EMPTY	0.0451	0.1046
59	TAF130312	0.0280	0.0170
60	EMPTY	0.0025	0.1078
61	EMPTY	0.0014	0.0603
62	EMPTY	0.0019	0.0819
63	EMPTY	0.0017	0.0730
64	EMPTY	0.0006	0.0527
65	EMPTY	0.0007	0.0607
66	EMPTY	0.0030	0.2573
67	EMPTY	0.0002	0.0170
68	EMPTY	0.0006	0.0505
69	EMPTY	0.0002	0.0167
70	EMPTY	0.0024	0.1978
71	EMPTY	0.0023	0.1865
72	EMPTY	0.0032	0.2573
73	EMPTY	0.0009	0.0717
74	EMPTY	0.0022	0.1735
75	EMPTY	0.0017	0.1327
76	EMPTY	0.0019	0.1471
77	EMPTY	0.0014	0.1070
78	EMPTY	0.0020	0.1508
79	EMPTY	0.0015	0.1115
80	PAN020136	0.0172	0.1496
81	PAN050136	0.0708	0.3181
82	PAN070136	0.0002	0.0014
83	PAN080136	0.0302	0.4043
84	PAN090136	0.0214	0.2766
85	PAN100136	0.0204	0.2763
86	PAN105136	0.0239	0.7820
87	PAN110136	0.0062	0.1802
88	PAN115136	0.0898	2.4001
89	PAN120136	0.1421	4.1336
90	PAN125136	0.0129	0.3123
91	PAN130136	0.0151	0.3949
92	PAN120048	0.0413	0.5013
93	PAN130048	0.0467	0.6201
94	PAN120224	0.0708	0.9873
95	PAN130224	0.0146	0.1886
96	PAN120312	0.0282	0.3885
97	PAN130312	0.0072	0.0919
98	PAB000136	0.0645	0.1591
99	PAB100136	0.0489	0.1138
100	PAB125136	0.0676	0.1547

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1142	0.2829
102	PRV000001	0.0464	0.2399
103	PSR000001	0.0810	0.1846
104	PFM000001	0.0129	0.1720
105	PAN000136	0.2775	0.3033
106	PFM000002	0.0184	0.2533
107	EMPTY	0.0059	245.8333
108	EMPTY	0.0307	0.4740
109	EMPTY	0.0021	233.3333
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0009	100.0000
112	VPW000001	0.0998	0.0977
113	VPW000002	0.0643	0.0541
114	VPW000003	0.0142	0.0097
115	VPW000004	0.0763	0.0727
116	VPW000005	0.0246	0.0176
117	VPW000006	0.0773	0.0530
118	IPW000001	1.1069	0.2037
119	IPW000002	2.3700	0.1802
120	IPW000003	1.2042	0.0904
121	IPW000004	0.8492	0.2234
122	IPW000005	0.3285	0.1295
123	IPW000006	0.4259	0.1592
124	EMPTY	0.0043	22.0513
125	EMPTY	0.0034	26.5625
126	EMPTY	0.0022	13.1737
127	EMPTY	0.0029	20.0000
128	IHT000001	0.0779	0.0590
129	IHT000002	0.0403	0.0306
130	IHT000003	0.0957	0.0734
131	IHT000004	0.0468	0.0353
132	IHT000005	0.0169	0.0129
133	IHT000006	0.0589	0.0465
134	IHT000007	0.0970	0.0730
135	IHT000008	0.0328	0.0249
136	IHT000009	0.0733	0.0558
137	IHT000010	0.2659	0.2017
138	IHT000011	0.4592	0.3459
139	IHT000012	0.3564	0.2705
140	IHT000013	0.3391	0.3636
141	IHT000014	0.5001	0.3879
142	IHT000015	0.4271	0.4454
143	IHT000016	0.3186	0.3537
144	IHT000017	0.5831	0.5510
145	IHT000018	0.3758	0.3473
146	IHT000019	0.1560	0.1438
147	IHT000020	0.0849	0.0796
148	IHT000021	0.0033	0.1954
149	IHT000022	0.0670	0.0716
150	IHT000023	0.0181	0.0171
151	IHT000024	0.0029	0.0041
152	IHT000025	0.0048	0.0046
153	IHT000026	0.0139	0.0131
154	IHT000027	0.0049	0.0054
155	IHT000028	0.0614	0.0670

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1457	0.1362
157	IHT000030	0.1517	0.1384
158	IHT000031	0.1539	0.1431
159	IHT000032	0.0973	0.0899
160	IHT000033	0.0703	0.0650
161	IHT000034	0.0105	0.0111
162	IHT000035	0.0660	0.0529
163	IHT000036	0.0847	0.0905

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sum1

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Velocity 1 = 5.8734 (ft/sec) (+/- 5.8844 %)
Velocity 2 = 5.7276 (ft/sec) (+/- 3.9101 %)
Pressure drop = -3.9235 (psi)
Tsats in = 268.0293 (deg F) Tsats out = 273.2639 (deg F)
Phi inner = 100.8884 (kBtu/hr-ft2) (+/- 1.5692 %)
Phi outer = 100.5004 (kBtu/hr-ft2) (+/- 1.5533 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.2724	75.9099	75.5912	1.8834e-01	1.9000e+00
1	TRF000002	75.7765	76.1992	75.9372	1.3203e-01	1.9000e+00
2	TFM000001	86.8595	87.6982	87.2975	1.9008e-01	1.9002e+00
3	TIN000001	87.2493	87.8791	87.5873	1.7781e-01	1.9002e+00
4	TRV000001	86.5782	87.4165	87.0249	2.2171e-01	1.9002e+00
5	TSR000001	135.3303	140.6535	138.6123	1.3512e+00	1.9032e+00
6	EMPTY	37.9974	38.9168	38.4204	2.2442e-01	1.9010e+00
7	TAO050136	176.2762	177.1571	176.6581	2.0078e-01	1.9076e+00
8	TAO070136	183.4748	184.3559	183.9550	1.9903e-01	1.9087e+00
9	TAO080136	185.4974	186.0809	185.8264	1.4141e-01	1.9090e+00
10	TAO090136	192.3403	193.1154	192.8186	1.7874e-01	1.9101e+00
11	TAO100136	198.8515	199.8162	199.3049	1.9023e-01	1.9112e+00
12	TAO105136	200.1532	201.1185	200.6998	2.1423e-01	1.9115e+00
13	EMPTY	40.9819	41.4403	41.2799	1.2465e-01	1.9011e+00
14	TAO115136	210.1459	210.9155	210.5943	1.9664e-01	1.9133e+00
15	EMPTY	32.6940	41.8984	37.4482	1.8595e+00	1.9009e+00
16	TAO125136	212.7403	213.5995	213.1965	1.6401e-01	1.9138e+00
17	EMPTY	31.9235	32.8585	32.4332	1.9291e-01	1.9007e+00
18	EMPTY	41.4403	41.8984	41.5365	1.2323e-01	1.9012e+00
19	TAO130048	209.0340	209.7031	209.3379	1.5315e-01	1.9130e+00
20	TAO120224	205.1605	206.1220	205.5663	2.0212e-01	1.9123e+00
21	EMPTY	38.6870	39.3761	39.0775	1.5564e-01	1.9010e+00
22	TAO120312	216.3764	217.5226	217.0852	2.6949e-01	1.9145e+00
23	TAO130312	209.2342	210.1916	209.8066	2.0238e-01	1.9131e+00
24	EMPTY	39.1464	39.6057	39.3899	1.7609e-01	1.9010e+00
25	TRT070000	196.8566	197.6341	197.2899	1.8225e-01	1.9109e+00
26	TRT100000	217.2835	218.2362	217.8645	1.8970e-01	1.9147e+00
27	TRT120000	219.8754	220.5416	220.2387	1.7268e-01	1.9151e+00
28	TRT125000	221.0249	222.0663	221.5680	1.9322e-01	1.9154e+00
29	EMPTY	39.8352	40.0646	39.9637	1.1506e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6883	2.1632e-01	1.9011e+00
31	TAF050136	121.0405	122.5677	121.9552	3.2227e-01	1.9018e+00
32	TAF070136	131.8419	133.1512	132.4402	3.1601e-01	1.9026e+00
33	TAF080136	136.4981	137.6019	137.0548	2.6271e-01	1.9030e+00
34	TAF090136	140.4388	141.8468	141.2775	2.7893e-01	1.9034e+00
35	TAF100136	147.7727	149.0748	148.4761	2.5879e-01	1.9041e+00
36	TAF105136	152.3410	153.4294	152.8967	2.9781e-01	1.9046e+00
37	TAF110136	156.7250	157.6169	157.1786	2.2219e-01	1.9051e+00
38	TAF115136	160.7773	161.6687	161.2942	2.3343e-01	1.9056e+00
39	TAF120136	164.3547	165.0449	164.6492	1.5866e-01	1.9060e+00
40	TAF125136	167.7967	169.2672	168.5641	3.3170e-01	1.9065e+00
41	TAF130136	171.2966	172.0830	171.7114	1.8647e-01	1.9070e+00
42	TAF120048	172.9285	174.1159	173.4936	2.7031e-01	1.9072e+00
43	TAF130048	177.8052	178.6864	178.2225	2.0346e-01	1.9079e+00
44	TAF120224	162.8979	163.9854	163.5210	2.3569e-01	1.9059e+00
45	TAF130224	168.8538	169.8429	169.4530	2.4105e-01	1.9067e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9514	1.9711e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.4082	1.3128e-01	1.9010e+00
48	TAI130048	220.7073	221.3736	221.0329	1.6215e-01	1.9153e+00
49	TAI130136	215.0531	215.7207	215.4173	1.4512e-01	1.9142e+00
50	TAI130224	186.7211	187.5980	187.1285	1.7908e-01	1.9092e+00
51	TAI130312	207.1360	207.9048	207.5302	1.6835e-01	1.9127e+00
52	TRR130000	137.2111	138.7194	138.0373	3.5791e-01	1.9031e+00
53	TSI000001	43.6499	44.5193	44.1259	1.8341e-01	1.9005e+00
54	TSI000002	111.2200	112.2482	111.7978	2.6402e-01	1.9012e+00
55	TSO000001	42.5146	43.4971	42.9230	2.0670e-01	1.9005e+00
56	TSO000002	54.0961	55.0665	54.5170	2.1253e-01	1.9002e+00
57	TAF020136	101.9592	103.0011	102.4066	2.1800e-01	1.9007e+00
58	EMPTY	42.5851	43.5000	43.1158	2.5070e-01	1.9013e+00
59	TAF130312	179.7453	181.1116	180.5510	2.9763e-01	1.9082e+00
60	EMPTY	2.7002	2.7100	2.7046	2.6562e-03	0.0000e+00
61	EMPTY	2.7002	2.7100	2.7024	2.6488e-03	0.0000e+00
62	EMPTY	2.7002	2.7051	2.7013	2.0432e-03	0.0000e+00
63	EMPTY	2.7002	2.7100	2.7051	1.3951e-03	0.0000e+00
64	EMPTY	1.2988	1.3037	1.3005	2.3365e-03	0.0000e+00
65	EMPTY	1.3135	1.3184	1.3147	2.1635e-03	0.0000e+00
66	EMPTY	1.3232	1.3281	1.3270	2.1065e-03	0.0000e+00
67	EMPTY	1.3379	1.3428	1.3380	6.9053e-04	0.0000e+00
68	EMPTY	1.3477	1.3477	1.3477	0.0000e+00	0.0000e+00
69	EMPTY	1.3574	1.3623	1.3615	1.8082e-03	0.0000e+00
70	EMPTY	1.3672	1.3721	1.3719	9.6655e-04	0.0000e+00
71	EMPTY	1.3867	1.3916	1.3912	1.3381e-03	0.0000e+00
72	EMPTY	1.3965	1.4014	1.3993	2.4344e-03	0.0000e+00
73	EMPTY	1.4111	1.4160	1.4118	1.7115e-03	0.0000e+00
74	EMPTY	1.4209	1.4258	1.4225	2.3008e-03	0.0000e+00
75	EMPTY	1.4355	1.4404	1.4356	6.9053e-04	0.0000e+00
76	EMPTY	1.4404	1.4502	1.4453	9.8648e-04	0.0000e+00
77	EMPTY	1.4600	1.4600	1.4600	0.0000e+00	0.0000e+00
78	EMPTY	1.4746	1.4795	1.4788	1.7115e-03	0.0000e+00
79	EMPTY	1.4941	1.4990	1.4984	1.6028e-03	0.0000e+00
80	PAN020136	-14.0100	-13.0182	-13.6011	2.3415e-01	8.7066e-01
81	PAN050136	-26.4925	-25.7296	-26.0775	1.7720e-01	1.6813e+00
82	PAN070136	-17.3008	-16.6904	-16.9956	1.2331e-01	8.7104e-01
83	PAN080136	-8.9512	-8.5697	-8.7574	8.6110e-02	8.7028e-01
84	PAN090136	-8.9395	-8.6343	-8.8342	8.1401e-02	8.7028e-01
85	PAN100136	-9.5278	-9.2227	-9.3707	6.9635e-02	8.7032e-01
86	PAN105136	-3.9460	-3.5645	-3.7385	7.0702e-02	8.7005e-01
87	PAN110136	-4.2028	-3.9739	-4.1295	6.8863e-02	8.7006e-01
88	PAN115136	-3.6392	-3.2578	-3.4409	8.4424e-02	8.7004e-01
89	PAN120136	-4.4829	-4.1014	-4.3654	7.4258e-02	8.7007e-01
90	PAN125136	-5.2533	-4.5666	-4.8947	2.2875e-01	8.7009e-01
91	PAN130136	-4.5300	-3.8433	-4.1882	2.4236e-01	8.7006e-01
92	PAN120048	-9.7258	-8.8866	-9.3779	1.9446e-01	8.7032e-01
93	PAN130048	-8.9042	-8.3701	-8.6768	1.4252e-01	8.7027e-01
94	PAN120224	-8.5829	-8.3540	-8.4990	7.1054e-02	8.7026e-01
95	PAN130224	-8.9365	-8.6313	-8.8083	7.6200e-02	8.7028e-01
96	PAN120312	-8.7002	-8.3951	-8.5446	7.3857e-02	8.7026e-01
97	PAN130312	-9.0876	-8.7825	-8.8954	7.4306e-02	8.7028e-01
98	PAB000136	40.1782	40.6359	40.4455	8.8879e-02	5.8875e-01
99	PAB100136	43.2399	43.3773	43.3287	4.1781e-02	5.9003e-01
100	PAB125136	44.0357	44.2188	44.1300	4.1781e-02	5.9040e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.8967	40.6292	40.2727	1.6879e-01	7.5673e-01
102	PRV0000001	19.3890	19.5111	19.4061	4.2787e-02	7.5157e-01
103	PSR0000001	44.4345	44.5566	44.4418	2.9284e-02	7.5818e-01
104	PFM0000001	5.0178	5.4756	5.2614	9.7190e-02	5.0017e-01
105	PAN000136	-111.3157	-105.8225	-108.6240	1.2936e+00	4.9275e+00
106	PFM0000002	4.9013	5.1027	4.9993	4.1845e-02	2.0039e-01
107	EMPTY	-0.0049	0.0049	-0.0016	3.8762e-03	0.0000e+00
108	EMPTY	-10.0000	2.3047	-5.0409	2.8338e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0003	2.6853e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0006	1.6028e-03	0.0000e+00
112	VPW0000001	101.9531	102.3438	102.1758	1.2484e-01	1.0158e+00
113	VPW0000002	118.7462	119.1369	118.9728	9.9512e-02	1.0797e+00
114	VPW0000003	146.8262	147.2168	147.0566	1.1632e-01	1.1978e+00
115	VPW0000004	104.5823	105.1683	105.0003	1.5789e-01	1.0262e+00
116	VPW0000005	139.3743	139.7649	139.5382	1.1409e-01	1.1649e+00
117	VPW0000006	145.9247	146.3153	146.0498	1.0259e-01	1.1933e+00
118	IPW0000001	533.2900	545.0041	537.8975	3.6951e+00	9.1470e+00
119	IPW0000002	1308.2513	1321.9102	1314.0267	3.5906e+00	1.3167e+01
120	IPW0000003	1327.6125	1337.3625	1334.0085	2.8420e+00	1.3292e+01
121	IPW0000004	375.8921	381.2632	378.6068	1.8327e+00	3.5981e+00
122	IPW0000005	253.1672	254.1437	253.5479	3.3143e-01	2.8306e+00
123	IPW0000006	266.6861	268.1509	267.2038	3.6124e-01	2.9079e+00
124	EMPTY	-0.0293	-0.0146	-0.0226	3.5417e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0132	3.1583e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0179	3.8975e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.5623e-03	0.0000e+00
128	IHT0000001	130.9533	133.6877	132.0509	5.6344e-01	4.3074e+00
129	IHT0000002	130.5138	132.8576	131.4747	5.1424e-01	4.3056e+00
130	IHT0000003	129.1917	131.9261	130.2113	4.9645e-01	4.3018e+00
131	IHT0000004	131.3702	134.1046	132.5928	5.1268e-01	4.3091e+00
132	IHT0000005	129.5147	131.6632	130.7491	4.5582e-01	4.3034e+00
133	IHT0000006	125.4394	127.3926	126.4785	4.9354e-01	4.2907e+00
134	IHT0000007	131.8472	133.9957	132.8277	5.1522e-01	4.3098e+00
135	IHT0000008	130.8744	132.8275	131.5502	4.7876e-01	4.3059e+00
136	IHT0000009	130.4049	132.5533	131.2681	4.8663e-01	4.3050e+00
137	IHT0000010	130.3899	132.5383	131.4171	5.0657e-01	4.3055e+00
138	IHT0000011	131.6444	133.7928	132.5624	4.5720e-01	4.3090e+00
139	IHT0000012	130.6678	133.0116	131.6327	5.2111e-01	4.3061e+00
140	IHT0000013	91.9171	94.0655	92.9365	4.9957e-01	4.2040e+00
141	IHT0000014	127.6517	129.6049	128.4331	4.7186e-01	4.2965e+00
142	IHT0000015	94.7566	96.5144	95.5457	4.2856e-01	4.2099e+00
143	IHT0000016	88.8860	90.8391	89.8352	4.4118e-01	4.1973e+00
144	IHT0000017	104.3232	108.0341	106.1943	9.9987e-01	4.2353e+00
145	IHT0000018	107.0838	109.4276	108.0799	5.5419e-01	4.2401e+00
146	IHT0000019	108.0416	109.7994	108.7955	4.3586e-01	4.2419e+00
147	IHT0000020	106.4078	107.9703	107.0913	3.8712e-01	4.2376e+00
148	IHT0000021	-2.3099	-0.1615	-1.3763	4.8374e-01	4.1000e+00
149	IHT0000022	93.2241	94.7866	93.8726	3.5390e-01	4.2061e+00
150	IHT0000023	105.6415	107.2040	106.4228	3.6805e-01	4.2359e+00
151	IHT0000024	70.6167	72.3745	71.4526	3.6601e-01	4.1618e+00
152	IHT0000025	102.9860	104.7438	103.9235	3.7642e-01	4.2297e+00
153	IHT0000026	105.3035	107.2566	106.2996	3.7278e-01	4.2356e+00
154	IHT0000027	90.3621	92.3152	91.1473	4.2405e-01	4.2001e+00
155	IHT0000028	90.7978	93.3368	91.7861	5.1055e-01	4.2015e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0960	108.8304	107.0023	5.2905e-01	4.2373e+00
157	IHT000030	108.4435	111.3732	109.4357	5.5642e-01	4.2435e+00
158	IHT000031	106.5054	108.8492	107.3882	4.7718e-01	4.2383e+00
159	IHT000032	107.5496	109.5027	108.4324	5.0260e-01	4.2410e+00
160	IHT000033	107.5571	109.5102	108.4126	5.0206e-01	4.2409e+00
161	IHT000034	94.1557	96.1088	94.9448	4.7835e-01	4.2085e+00
162	IHT000035	123.6704	126.0141	124.8306	5.3000e-01	4.2858e+00
163	IHT000036	92.6795	94.6326	93.6014	4.6862e-01	4.2055e+00

Velocity 1 = 5.8824 (ft/sec) (+/- 5.8726 %)
Velocity 2 = 5.7309 (ft/sec) (+/- 3.9092 %)
Pressure drop = -3.9151 (psi)
Tsats in = 268.2163 (deg F) Tsats out = 273.4786 (deg F)
Phi inner = 100.7745 (kBtu/hr-ft2) (+/- 1.5695 %)
Phi outer = 100.9091 (kBtu/hr-ft2) (+/- 1.5511 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.2724	75.9099	75.5630	1.8753e-01	1.9000e+00
1	TRF000002	75.7765	76.1992	75.8801	1.2296e-01	1.9000e+00
2	TFM000001	87.0689	87.9069	87.4708	2.2868e-01	1.9002e+00
3	TIN000001	87.4593	88.0891	87.7163	1.6881e-01	1.9002e+00
4	TRV000001	86.3689	87.3123	86.8930	2.1489e-01	1.9002e+00
5	TSR000001	137.9431	141.9565	140.1616	9.1806e-01	1.9033e+00
6	EMPTY	37.9974	38.9168	38.4478	2.2963e-01	1.9010e+00
7	TAO050136	176.0809	177.0593	176.6656	1.9300e-01	1.9076e+00
8	TAO070136	183.2791	184.3559	183.9110	2.3486e-01	1.9087e+00
9	TAO080136	185.4014	186.1774	185.8368	1.7855e-01	1.9090e+00
10	TAO090136	192.6307	193.3089	192.9192	1.9109e-01	1.9102e+00
11	TAO100136	198.9476	199.9127	199.3279	1.7988e-01	1.9112e+00
12	TAO105136	200.2501	201.3115	200.8451	2.1614e-01	1.9115e+00
13	EMPTY	40.9819	41.6693	41.2813	1.4941e-01	1.9011e+00
14	TAO115136	210.1467	211.1076	210.6351	2.0466e-01	1.9133e+00
15	EMPTY	32.2314	41.8984	38.0370	2.2536e+00	1.9010e+00
16	TAO125136	212.9307	213.5041	213.2057	1.5674e-01	1.9138e+00
17	EMPTY	32.1574	32.8585	32.4197	1.8863e-01	1.9007e+00
18	EMPTY	41.4403	41.8984	41.5338	1.2299e-01	1.9012e+00
19	TAO130048	209.0340	209.7035	209.3887	1.4226e-01	1.9130e+00
20	TAO120224	205.0646	205.9299	205.5902	1.9828e-01	1.9123e+00
21	EMPTY	38.6870	39.3761	39.0527	1.3193e-01	1.9010e+00
22	TAO120312	216.6632	217.6180	217.0918	2.1629e-01	1.9145e+00
23	TAO130312	209.4254	210.0959	209.8182	1.9074e-01	1.9131e+00
24	EMPTY	38.9168	39.8352	39.4135	2.0075e-01	1.9010e+00
25	TRT070000	196.9544	197.7305	197.3687	1.9598e-01	1.9109e+00
26	TRT100000	217.4738	218.4264	217.9152	2.2300e-01	1.9147e+00
27	TRT120000	219.9701	220.6363	220.2635	1.6808e-01	1.9152e+00
28	TRT125000	221.3075	222.0663	221.6309	2.0734e-01	1.9154e+00
29	EMPTY	39.8352	40.0646	39.9851	1.1036e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6384	2.1471e-01	1.9011e+00
31	TAF050136	121.3465	122.7709	121.9820	3.7360e-01	1.9018e+00
32	TAF070136	131.8406	133.2522	132.4768	3.1275e-01	1.9026e+00
33	TAF080136	136.1988	137.6019	137.0045	3.0269e-01	1.9030e+00
34	TAF090136	140.6399	141.9469	141.3807	3.0690e-01	1.9034e+00
35	TAF100136	147.9732	149.1758	148.5825	2.6732e-01	1.9042e+00
36	TAF105136	152.4391	153.4294	152.9762	2.7188e-01	1.9046e+00
37	TAF110136	156.7250	157.7149	157.1614	2.1680e-01	1.9051e+00
38	TAF115136	160.8772	161.6687	161.2986	1.9761e-01	1.9056e+00
39	TAF120136	164.3547	164.9475	164.6470	1.5197e-01	1.9060e+00
40	TAF125136	167.9925	169.1705	168.6473	3.0379e-01	1.9065e+00
41	TAF130136	171.3952	172.3765	171.8239	2.0983e-01	1.9070e+00
42	TAF120048	172.6337	174.5125	173.5498	4.0033e-01	1.9072e+00
43	TAF130048	177.7077	178.8813	178.2829	2.5311e-01	1.9079e+00
44	TAF120224	162.8984	164.5782	163.6566	3.0746e-01	1.9059e+00
45	TAF130224	169.0518	170.0405	169.5503	2.1822e-01	1.9067e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9599	2.2189e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.4464	1.2579e-01	1.9010e+00
48	TAI130048	220.8027	221.4689	221.1289	1.7907e-01	1.9153e+00
49	TAI130136	215.1480	215.7207	215.4809	1.5211e-01	1.9142e+00
50	TAI130224	186.7211	187.9884	187.3140	3.4743e-01	1.9092e+00
51	TAI130312	207.1365	208.5770	207.7480	3.7790e-01	1.9127e+00
52	TRR130000	137.1107	140.9271	138.7549	1.1028e+00	1.9032e+00
53	TSI000001	43.6499	44.6270	44.1222	2.1783e-01	1.9005e+00
54	TSI000002	111.7333	112.9662	112.3477	2.7767e-01	1.9012e+00
55	TSO000001	42.5146	43.2785	42.8580	2.0784e-01	1.9005e+00
56	TSO000002	54.2041	55.0665	54.5498	2.3076e-01	1.9002e+00
57	TAF020136	101.9592	103.1062	102.5310	2.5974e-01	1.9007e+00
58	EMPTY	42.8139	43.7285	43.1313	2.6330e-01	1.9013e+00
59	TAF130312	180.2327	181.4036	180.7107	2.7111e-01	1.9082e+00
60	EMPTY	2.7002	2.7148	2.7080	2.8047e-03	0.0000e+00
61	EMPTY	2.7002	2.7100	2.7064	2.5944e-03	0.0000e+00
62	EMPTY	2.7002	2.7100	2.7056	2.4907e-03	0.0000e+00
63	EMPTY	2.7051	2.7148	2.7094	2.1453e-03	0.0000e+00
64	EMPTY	1.2988	1.3037	1.3032	1.4934e-03	0.0000e+00
65	EMPTY	1.3135	1.3184	1.3179	1.4934e-03	0.0000e+00
66	EMPTY	1.3232	1.3330	1.3281	9.9670e-04	0.0000e+00
67	EMPTY	1.3379	1.3428	1.3409	2.4037e-03	0.0000e+00
68	EMPTY	1.3477	1.3525	1.3492	2.2737e-03	0.0000e+00
69	EMPTY	1.3623	1.3623	1.3623	0.0000e+00	0.0000e+00
70	EMPTY	1.3721	1.3721	1.3721	0.0000e+00	0.0000e+00
71	EMPTY	1.3867	1.3916	1.3915	6.9754e-04	0.0000e+00
72	EMPTY	1.3965	1.4014	1.4013	6.9754e-04	0.0000e+00
73	EMPTY	1.4111	1.4160	1.4155	1.4934e-03	0.0000e+00
74	EMPTY	1.4209	1.4258	1.4255	1.1827e-03	0.0000e+00
75	EMPTY	1.4355	1.4404	1.4363	1.8234e-03	0.0000e+00
76	EMPTY	1.4453	1.4502	1.4458	1.4934e-03	0.0000e+00
77	EMPTY	1.4600	1.4648	1.4605	1.4934e-03	0.0000e+00
78	EMPTY	1.4795	1.4795	1.4795	0.0000e+00	0.0000e+00
79	EMPTY	1.4990	1.4990	1.4990	0.0000e+00	0.0000e+00
80	PAN020136	-14.0863	-12.7893	-13.5787	2.3749e-01	8.7066e-01
81	PAN050136	-26.4925	-25.5770	-26.0597	1.8518e-01	1.6813e+00
82	PAN070136	-17.3008	-16.4615	-16.9520	1.3487e-01	8.7103e-01
83	PAN080136	-8.9512	-8.6460	-8.7519	8.3600e-02	8.7028e-01
84	PAN090136	-8.9395	-8.6343	-8.8289	6.0439e-02	8.7028e-01
85	PAN100136	-9.5278	-9.1464	-9.3379	7.4886e-02	8.7031e-01
86	PAN105136	-3.8697	-3.5645	-3.7249	7.3451e-02	8.7005e-01
87	PAN110136	-4.2791	-3.9739	-4.1218	7.6940e-02	8.7006e-01
88	PAN115136	-3.6392	-3.3340	-3.4415	7.7740e-02	8.7004e-01
89	PAN120136	-4.4829	-4.2540	-4.3583	5.7630e-02	8.7007e-01
90	PAN125136	-5.2533	-4.9481	-5.0742	5.5173e-02	8.7009e-01
91	PAN130136	-4.1485	-3.8433	-3.9632	7.6294e-02	8.7006e-01
92	PAN120048	-10.0310	-8.9629	-9.5001	1.8620e-01	8.7032e-01
93	PAN130048	-9.1331	-8.2938	-8.7064	1.5952e-01	8.7027e-01
94	PAN120224	-8.5829	-8.3540	-8.4786	6.7334e-02	8.7026e-01
95	PAN130224	-9.0128	-8.6313	-8.8119	7.7389e-02	8.7028e-01
96	PAN120312	-8.7002	-8.2425	-8.5430	8.0030e-02	8.7026e-01
97	PAN130312	-9.0876	-8.7062	-8.8868	7.5806e-02	8.7028e-01
98	PAB000136	40.3613	40.8190	40.5724	1.0930e-01	5.8880e-01
99	PAB100136	43.3315	43.6061	43.4763	8.6828e-02	5.9010e-01
100	PAB125136	44.0815	44.4019	44.2870	8.9685e-02	5.9047e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1409	40.8733	40.5146	1.9685e-01	7.5681e-01
102	PRV000001	19.3890	19.5111	19.4563	6.1346e-02	7.5158e-01
103	PSR000001	44.4345	44.6786	44.5939	9.7159e-02	7.5824e-01
104	PFM000001	5.1094	5.4756	5.2775	9.2212e-02	5.0017e-01
105	PAN000136	-111.3157	-106.2803	-108.3916	1.1167e+00	4.9275e+00
106	PFM000002	4.9013	5.1194	5.0051	4.3953e-02	2.0039e-01
107	EMPTY	-0.0049	0.0049	-0.0017	4.1756e-03	0.0000e+00
108	EMPTY	-10.0000	3.8379	-4.6368	3.2902e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0008	2.8796e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0011	2.0584e-03	0.0000e+00
112	VPW000001	101.7578	102.3438	102.0448	1.5493e-01	1.0154e+00
113	VPW000002	118.7462	119.1369	118.9814	1.0533e-01	1.0797e+00
114	VPW000003	146.8262	147.4121	147.1331	1.1960e-01	1.1981e+00
115	VPW000004	104.5823	105.3636	104.9172	1.4375e-01	1.0259e+00
116	VPW000005	139.3743	139.7649	139.5655	1.1616e-01	1.1650e+00
117	VPW000006	145.9247	146.5107	146.1440	1.4170e-01	1.1937e+00
118	IPW000001	539.1471	546.9564	544.0079	1.5497e+00	9.1695e+00
119	IPW000002	1312.1538	1319.9590	1315.5784	1.8906e+00	1.3177e+01
120	IPW000003	1327.6125	1333.4625	1330.3979	1.1941e+00	1.3269e+01
121	IPW000004	380.2866	384.1928	381.9307	1.0534e+00	3.6199e+00
122	IPW000005	253.6555	254.6319	254.2034	3.5422e-01	2.8342e+00
123	IPW000006	267.1743	268.6392	268.1511	4.1095e-01	2.9133e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.5311e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.9284e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0177	3.6883e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	2.9901e-03	0.0000e+00
128	IHT000001	130.9533	133.2970	132.1371	6.3088e-01	4.3077e+00
129	IHT000002	130.3185	132.8576	131.5501	6.2810e-01	4.3059e+00
130	IHT000003	128.9964	131.5354	130.3317	6.3583e-01	4.3022e+00
131	IHT000004	131.5655	133.9093	132.6257	5.6943e-01	4.3092e+00
132	IHT000005	129.7101	132.2491	130.8420	5.8319e-01	4.3037e+00
133	IHT000006	125.4394	127.7832	126.5356	5.6917e-01	4.2908e+00
134	IHT000007	131.6519	133.9957	132.8636	5.1825e-01	4.3099e+00
135	IHT000008	130.4838	132.6322	131.5640	5.1072e-01	4.3059e+00
136	IHT000009	130.2096	132.1627	131.2379	4.8300e-01	4.3049e+00
137	IHT000010	130.3899	132.5383	131.4182	4.9116e-01	4.3055e+00
138	IHT000011	131.6444	133.4022	132.5333	4.6161e-01	4.3089e+00
139	IHT000012	130.6678	132.6209	131.6165	4.5978e-01	4.3061e+00
140	IHT000013	91.9171	94.0655	92.8059	4.4406e-01	4.2037e+00
141	IHT000014	127.6517	129.6049	128.4251	4.7334e-01	4.2964e+00
142	IHT000015	94.5613	96.5144	95.4143	4.2697e-01	4.2096e+00
143	IHT000016	88.8860	90.8391	89.6951	4.0265e-01	4.1970e+00
144	IHT000017	104.1278	108.4247	106.3839	9.0918e-01	4.2358e+00
145	IHT000018	107.0838	109.2323	108.1282	5.5751e-01	4.2402e+00
146	IHT000019	107.6510	109.7994	108.7152	5.5108e-01	4.2417e+00
147	IHT000020	105.8218	108.1656	107.0136	5.2777e-01	4.2374e+00
148	IHT000021	-2.7006	-0.1615	-1.4251	6.1648e-01	4.1000e+00
149	IHT000022	92.8335	94.5913	93.7224	4.7351e-01	4.2058e+00
150	IHT000023	105.6415	107.3993	106.4427	4.3353e-01	4.2359e+00
151	IHT000024	70.6167	72.5699	71.4777	4.2924e-01	4.1618e+00
152	IHT000025	103.1813	104.7438	103.9307	4.0136e-01	4.2297e+00
153	IHT000026	105.4988	107.0613	106.2562	4.0975e-01	4.2354e+00
154	IHT000027	90.1668	91.9246	90.9480	4.1623e-01	4.1997e+00
155	IHT000028	90.7978	92.7509	91.6628	5.1675e-01	4.2012e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0960	108.2444	106.9929	5.3920e-01	4.2373e+00
157	IHT000030	108.4435	110.5919	109.4240	5.1287e-01	4.2435e+00
158	IHT000031	106.5054	108.6539	107.3703	4.8828e-01	4.2383e+00
159	IHT000032	107.7449	109.6980	108.3986	5.0201e-01	4.2409e+00
160	IHT000033	107.5571	109.5102	108.3583	4.8705e-01	4.2408e+00
161	IHT000034	93.7650	95.7182	94.7895	4.9238e-01	4.2081e+00
162	IHT000035	123.8657	126.0141	124.7227	4.7141e-01	4.2855e+00
163	IHT000036	92.4842	94.4373	93.4448	4.4723e-01	4.2051e+00

Velocity 1 = 0.009000 (ft/sec)
 Velocity 2 = 0.003300 (ft/sec)
 Pressure Drop = 0.008400 (psi)
 Tsat in = 0.187012 (deg F) Tsat out = 0.214722 (deg F)
 Phi inner = 0.113899 (kBtu/hr-ft2) Phi outer = 0.408707 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0282	0.0373
1	TRF000002	0.0571	0.0752
2	TFM000001	0.1733	0.1985
3	TIN000001	0.1290	0.1473
4	TRV000001	0.1319	0.1516
5	TSR000001	1.5493	1.1177
6	EMPTY	0.0274	0.0713
7	TAO050136	0.0075	0.0042
8	TAO070136	0.0440	0.0239
9	TAO080136	0.0104	0.0056
10	TAO090136	0.1006	0.0522
11	TAO100136	0.0230	0.0115
12	TAO105136	0.1453	0.0724
13	EMPTY	0.0014	0.0034
14	TAO115136	0.0408	0.0194
15	EMPTY	0.5888	1.5723
16	TAO125136	0.0092	0.0043
17	EMPTY	0.0135	0.0416
18	EMPTY	0.0027	0.0065
19	TAO130048	0.0508	0.0243
20	TAO120224	0.0239	0.0116
21	EMPTY	0.0248	0.0635
22	TAO120312	0.0066	0.0030
23	TAO130312	0.0116	0.0055
24	EMPTY	0.0236	0.0599
25	TRT070000	0.0788	0.0399
26	TRT100000	0.0507	0.0233
27	TRT120000	0.0248	0.0113
28	TRT125000	0.0629	0.0284
29	EMPTY	0.0214	0.0535
30	EMPTY	0.0499	0.1257
31	TAF050136	0.0268	0.0220
32	TAF070136	0.0366	0.0276
33	TAF080136	0.0503	0.0367
34	TAF090136	0.1032	0.0731
35	TAF100136	0.1064	0.0717
36	TAF105136	0.0795	0.0520
37	TAF110136	0.0172	0.0109
38	TAF115136	0.0044	0.0027
39	TAF120136	0.0022	0.0013
40	TAF125136	0.0832	0.0494
41	TAF130136	0.1125	0.0655
42	TAF120048	0.0562	0.0324
43	TAF130048	0.0604	0.0339
44	TAF120224	0.1356	0.0829
45	TAF130224	0.0973	0.0574

#	Name	Abs Diff	%Diff
46	EMPTY	0.0085	0.0224
47	EMPTY	0.0382	0.0969
48	TAI130048	0.0960	0.0434
49	TAI130136	0.0636	0.0295
50	TAI130224	0.1855	0.0991
51	TAI130312	0.2178	0.1050
52	TRR130000	0.7176	0.5199
53	TSI000001	0.0037	0.0084
54	TSI000002	0.5499	0.4919
55	TSO000001	0.0650	0.1514
56	TSO000002	0.0328	0.0602
57	TAF020136	0.1244	0.1215
58	EMPTY	0.0155	0.0360
59	TAF130312	0.1597	0.0885
60	EMPTY	0.0034	0.1257
61	EMPTY	0.0040	0.1480
62	EMPTY	0.0043	0.1592
63	EMPTY	0.0043	0.1590
64	EMPTY	0.0027	0.2076
65	EMPTY	0.0032	0.2434
66	EMPTY	0.0011	0.0829
67	EMPTY	0.0029	0.2167
68	EMPTY	0.0015	0.1113
69	EMPTY	0.0008	0.0588
70	EMPTY	0.0002	0.0146
71	EMPTY	0.0003	0.0216
72	EMPTY	0.0020	0.1429
73	EMPTY	0.0037	0.2621
74	EMPTY	0.0030	0.2109
75	EMPTY	0.0007	0.0488
76	EMPTY	0.0005	0.0346
77	EMPTY	0.0005	0.0342
78	EMPTY	0.0007	0.0473
79	EMPTY	0.0006	0.0400
80	PAN020136	0.0224	0.1647
81	PAN050136	0.0178	0.0683
82	PAN070136	0.0436	0.2565
83	PAN080136	0.0055	0.0628
84	PAN090136	0.0053	0.0600
85	PAN100136	0.0328	0.3500
86	PAN105136	0.0136	0.3638
87	PAN110136	0.0077	0.1865
88	PAN115136	0.0006	0.0174
89	PAN120136	0.0071	0.1626
90	PAN125136	0.1795	3.6672
91	PAN130136	0.2250	5.3722
92	PAN120048	0.1222	1.3031
93	PAN130048	0.0296	0.3411
94	PAN120224	0.0204	0.2400
95	PAN130224	0.0036	0.0409
96	PAN120312	0.0016	0.0187
97	PAN130312	0.0086	0.0967
98	PAB000136	0.1269	0.3138
99	PAB100136	0.1476	0.3406
100	PAB125136	0.1570	0.3558

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2419	0.6006
102	PRV000001	0.0502	0.2587
103	PSR000001	0.1521	0.3422
104	PFM000001	0.0161	0.3060
105	PAN000136	0.2324	0.2139
106	PFM000002	0.0058	0.1160
107	EMPTY	0.0001	6.2500
108	EMPTY	0.4041	8.0164
109	EMPTY	0.0005	166.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0005	83.3333
112	VPW000001	0.1310	0.1282
113	VPW000002	0.0086	0.0072
114	VPW000003	0.0765	0.0520
115	VPW000004	0.0831	0.0791
116	VPW000005	0.0273	0.0196
117	VPW000006	0.0942	0.0645
118	IPW000001	6.1104	1.1360
119	IPW000002	1.5516	0.1181
120	IPW000003	3.6106	0.2707
121	IPW000004	3.3239	0.8779
122	IPW000005	0.6555	0.2585
123	IPW000006	0.9473	0.3545
124	EMPTY	0.0014	6.1947
125	EMPTY	0.0009	6.8182
126	EMPTY	0.0002	1.1173
127	EMPTY	0.0000	0.0000
128	IHT000001	0.0862	0.0653
129	IHT000002	0.0754	0.0573
130	IHT000003	0.1204	0.0925
131	IHT000004	0.0329	0.0248
132	IHT000005	0.0929	0.0710
133	IHT000006	0.0571	0.0451
134	IHT000007	0.0359	0.0270
135	IHT000008	0.0138	0.0105
136	IHT000009	0.0302	0.0230
137	IHT000010	0.0011	0.0008
138	IHT000011	0.0291	0.0220
139	IHT000012	0.0162	0.0123
140	IHT000013	0.1306	0.1405
141	IHT000014	0.0080	0.0062
142	IHT000015	0.1314	0.1375
143	IHT000016	0.1401	0.1560
144	IHT000017	0.1896	0.1785
145	IHT000018	0.0483	0.0447
146	IHT000019	0.0803	0.0738
147	IHT000020	0.0777	0.0726
148	IHT000021	0.0488	3.5457
149	IHT000022	0.1502	0.1600
150	IHT000023	0.0199	0.0187
151	IHT000024	0.0251	0.0351
152	IHT000025	0.0072	0.0069
153	IHT000026	0.0434	0.0408
154	IHT000027	0.1993	0.2187
155	IHT000028	0.1233	0.1343

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0094	0.0088
157	IHT000030	0.0117	0.0107
158	IHT000031	0.0179	0.0167
159	IHT000032	0.0338	0.0312
160	IHT000033	0.0543	0.0501
161	IHT000034	0.1553	0.1636
162	IHT000035	0.1079	0.0864
163	IHT000036	0.1566	0.1673

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sum1

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Velocity 1 = 4.9779 (ft/sec) (+/- 7.5035 %)

Velocity 2 = 4.8030 (ft/sec) (+/- 4.3225 %)

Pressure drop = -4.3309 (psi)

Tsat in = 268.2721 (deg F) Tsat out = 274.0336 (deg F)

Phi inner = 100.7235 (kBtu/hr-ft2) (+/- 1.5696 %)

Phi outer = 100.9814 (kBtu/hr-ft2) (+/- 1.5510 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.4849	75.9099	75.6974	1.6624e-01	1.9000e+00
1	TRF000002	75.7765	76.1992	76.0640	1.1894e-01	1.9000e+00
2	TFM000001	86.6500	87.4889	87.1240	2.1922e-01	1.9002e+00
3	TIN000001	86.9339	87.7739	87.3205	1.6217e-01	1.9002e+00
4	TRV000001	86.4746	88.3577	87.3034	5.3277e-01	1.9002e+00
5	TSR000001	154.6117	156.8913	155.7419	5.7450e-01	1.9049e+00
6	EMPTY	37.9974	38.6870	38.4893	1.9150e-01	1.9010e+00
7	TAO050136	188.1349	189.0075	188.5576	1.9364e-01	1.9094e+00
8	TAO070136	196.7491	197.7200	197.2039	2.2222e-01	1.9109e+00
9	TAO080136	196.0189	196.7905	196.3472	1.4965e-01	1.9107e+00
10	TAO090136	207.6526	208.3230	207.9936	1.7652e-01	1.9128e+00
11	TAO100136	214.2039	215.2543	214.6966	2.2851e-01	1.9141e+00
12	TAO105136	215.8121	216.8637	216.3246	2.3930e-01	1.9144e+00
13	EMPTY	40.9819	41.4403	41.2616	1.3329e-01	1.9011e+00
14	TAO115136	227.5589	228.5093	228.0837	2.3458e-01	1.9168e+00
15	EMPTY	31.5371	42.5851	37.6228	3.5744e+00	1.9010e+00
16	TAO125136	231.5691	232.1347	231.8706	1.4750e-01	1.9176e+00
17	EMPTY	32.1574	32.8585	32.4846	2.1116e-01	1.9007e+00
18	EMPTY	41.4403	41.6693	41.5411	1.1486e-01	1.9012e+00
19	TAO130048	228.4750	229.0417	228.7547	1.4008e-01	1.9169e+00
20	TAO120224	223.2192	223.9790	223.5497	2.0244e-01	1.9158e+00
21	EMPTY	38.6870	39.3761	39.0454	1.3256e-01	1.9010e+00
22	TAO120312	236.3119	237.1606	236.7797	2.0864e-01	1.9186e+00
23	TAO130312	228.5181	229.0856	228.7830	1.4535e-01	1.9169e+00
24	EMPTY	39.1464	39.8352	39.4449	2.1880e-01	1.9010e+00
25	TRT070000	207.8178	209.0742	208.4518	3.0796e-01	1.9129e+00
26	TRT100000	236.0109	236.6699	236.3385	1.5235e-01	1.9185e+00
27	TRT120000	239.4402	240.2857	239.8988	1.6293e-01	1.9193e+00
28	TRT125000	241.0258	242.0541	241.4858	1.9613e-01	1.9197e+00
29	EMPTY	39.8352	40.2940	40.0050	1.2097e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6883	2.1129e-01	1.9011e+00
31	TAF050136	127.3368	128.8552	127.9517	3.8210e-01	1.9023e+00
32	TAF070136	139.2718	141.5749	140.5297	4.7051e-01	1.9033e+00
33	TAF080136	145.2843	146.5752	145.9199	3.3824e-01	1.9039e+00
34	TAF090136	150.4580	152.1545	151.3204	3.2806e-01	1.9044e+00
35	TAF100136	159.0542	161.3388	160.1352	4.6102e-01	1.9055e+00
36	TAF105136	164.4430	166.1089	165.3133	4.5682e-01	1.9061e+00
37	TAF110136	169.4260	173.1468	171.1936	6.7678e-01	1.9069e+00
38	TAF115136	174.2600	176.0222	175.2663	4.2464e-01	1.9075e+00
39	TAF120136	178.2491	179.3217	178.8264	2.2858e-01	1.9080e+00
40	TAF125136	182.5062	183.8641	183.1306	3.1785e-01	1.9086e+00
41	TAF130136	186.2272	187.3928	186.8994	2.7105e-01	1.9092e+00
42	TAF120048	188.4770	189.7492	189.0608	3.4847e-01	1.9095e+00
43	TAF130048	194.1543	195.5091	194.8163	2.7600e-01	1.9105e+00
44	TAF120224	176.3709	177.5458	177.0328	2.5523e-01	1.9077e+00
45	TAF130224	183.7268	184.9023	184.3583	2.8750e-01	1.9088e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9560	1.8403e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.4220	1.0372e-01	1.9010e+00
48	TAI130048	240.7517	241.4096	241.1126	1.3479e-01	1.9196e+00
49	TAI130136	234.6153	235.2741	234.9165	1.4848e-01	1.9182e+00
50	TAI130224	197.8947	198.4758	198.2240	1.5392e-01	1.9110e+00
51	TAI130312	221.3829	221.9537	221.6418	1.3874e-01	1.9154e+00
52	TRR130000	145.8328	147.2304	146.4395	3.1203e-01	1.9039e+00
53	TSI000001	43.4337	44.1942	43.7771	1.6031e-01	1.9005e+00
54	TSI000002	117.8779	118.9002	118.4055	2.7019e-01	1.9016e+00
55	TSO000001	41.8581	42.9502	42.3777	2.1356e-01	1.9005e+00
56	TSO000002	55.0663	55.9284	55.4758	1.7682e-01	1.9001e+00
57	TAF020136	104.2517	105.9166	104.9716	3.4400e-01	1.9008e+00
58	EMPTY	42.8139	43.5000	43.1752	2.4487e-01	1.9013e+00
59	TAF130312	196.9179	198.1717	197.4275	2.3950e-01	1.9109e+00
60	EMPTY	3.1152	3.1250	3.1204	2.2945e-03	0.0000e+00
61	EMPTY	3.1104	3.1250	3.1163	2.6635e-03	0.0000e+00
62	EMPTY	3.1104	3.1152	3.1123	2.4164e-03	0.0000e+00
63	EMPTY	3.1104	3.1201	3.1145	2.0598e-03	0.0000e+00
64	EMPTY	1.4795	1.4844	1.4840	1.3381e-03	0.0000e+00
65	EMPTY	1.4941	1.4990	1.4977	2.2146e-03	0.0000e+00
66	EMPTY	1.5039	1.5088	1.5076	2.1065e-03	0.0000e+00
67	EMPTY	1.5186	1.5234	1.5187	6.9053e-04	0.0000e+00
68	EMPTY	1.5234	1.5283	1.5260	2.4642e-03	0.0000e+00
69	EMPTY	1.5381	1.5430	1.5382	6.9053e-04	0.0000e+00
70	EMPTY	1.5479	1.5527	1.5480	9.6655e-04	0.0000e+00
71	EMPTY	1.5625	1.5674	1.5659	2.2603e-03	0.0000e+00
72	EMPTY	1.5723	1.5771	1.5726	1.1714e-03	0.0000e+00
73	EMPTY	1.5820	1.5918	1.5867	1.3811e-03	0.0000e+00
74	EMPTY	1.5918	1.5967	1.5965	9.6655e-04	0.0000e+00
75	EMPTY	1.6064	1.6113	1.6065	6.9053e-04	0.0000e+00
76	EMPTY	1.6113	1.6162	1.6161	6.9053e-04	0.0000e+00
77	EMPTY	1.6260	1.6309	1.6303	1.6028e-03	0.0000e+00
78	EMPTY	1.6455	1.6504	1.6456	6.9053e-04	0.0000e+00
79	EMPTY	1.6602	1.6650	1.6649	6.9053e-04	0.0000e+00
80	PAN020136	-15.4596	-14.4678	-15.0797	2.0993e-01	8.7082e-01
81	PAN050136	-29.0865	-28.4761	-28.7203	1.3786e-01	1.6815e+00
82	PAN070136	-19.0555	-18.5978	-18.8129	1.0532e-01	8.7127e-01
83	PAN080136	-9.5615	-9.1800	-9.4105	8.0815e-02	8.7032e-01
84	PAN090136	-11.0757	-9.9313	-10.7995	2.9443e-01	8.7042e-01
85	PAN100136	-12.6559	-8.1545	-10.9377	1.1734e+00	8.7043e-01
86	PAN105136	-6.8452	-0.9705	-4.2771	1.8659e+00	8.7007e-01
87	PAN110136	-6.9493	0.9089	-3.9586	1.8465e+00	8.7006e-01
88	PAN115136	-7.3776	-0.3586	-4.2526	2.1581e+00	8.7006e-01
89	PAN120136	-6.3139	-1.9652	-3.4377	1.2132e+00	8.7004e-01
90	PAN125136	-5.0244	-4.6429	-4.8611	9.3771e-02	8.7008e-01
91	PAN130136	-4.9114	-4.6825	-4.8214	6.2970e-02	8.7008e-01
92	PAN120048	-11.0991	-7.4370	-8.8271	1.1524e+00	8.7028e-01
93	PAN130048	-9.8960	-9.0568	-9.5908	1.6385e-01	8.7033e-01
94	PAN120224	-8.5829	-7.8962	-8.3296	1.3738e-01	8.7025e-01
95	PAN130224	-9.6231	-9.3942	-9.5239	6.0192e-02	8.7033e-01
96	PAN120312	-8.7765	-8.3951	-8.5568	9.4565e-02	8.7026e-01
97	PAN130312	-9.6217	-9.3928	-9.5179	6.3102e-02	8.7033e-01
98	PAB000136	40.4528	40.7733	40.6103	7.4653e-02	5.8882e-01
99	PAB100136	43.6977	43.9723	43.8680	7.4009e-02	5.9028e-01
100	PAB125136	44.6308	44.7681	44.6949	4.7157e-02	5.9067e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1409	40.7512	40.4070	1.4733e-01	7.5677e-01
102	PRV000001	19.2669	19.3890	19.3206	6.1209e-02	7.5155e-01
103	PSR000001	45.0448	45.1669	45.0619	4.2787e-02	7.5841e-01
104	PFM000001	3.6445	3.9192	3.7581	7.2961e-02	5.0009e-01
105	PAN000136	-121.8442	-117.7244	-119.9033	1.0322e+00	4.9291e+00
106	PFM000002	3.4582	3.5421	3.4938	2.6180e-02	2.0019e-01
107	EMPTY	-0.0049	0.0049	0.0011	3.8574e-03	0.0000e+00
108	EMPTY	-10.0000	3.8721	-5.3220	3.1208e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0001	1.8429e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	101.9531	102.3438	102.1445	1.2156e-01	1.0157e+00
113	VPW000002	118.9415	119.3322	119.1017	9.4125e-02	1.0802e+00
114	VPW000003	147.0215	147.6074	147.2676	1.5185e-01	1.1987e+00
115	VPW000004	104.7777	105.3636	105.0355	1.1464e-01	1.0263e+00
116	VPW000005	139.3743	139.9602	139.6320	1.6479e-01	1.1653e+00
117	VPW000006	145.9247	146.3153	146.1279	1.3063e-01	1.1937e+00
118	IPW000001	541.0994	545.0041	543.2860	1.5599e+00	9.1668e+00
119	IPW000002	1312.1538	1318.0077	1314.7294	1.5490e+00	1.3171e+01
120	IPW000003	1325.6625	1331.5125	1328.8997	1.2832e+00	1.3260e+01
121	IPW000004	381.7514	384.1928	383.2552	5.6531e-01	3.6286e+00
122	IPW000005	253.1672	254.6319	253.9678	4.0382e-01	2.8329e+00
123	IPW000006	267.1743	268.1509	267.6530	3.8825e-01	2.9105e+00
124	EMPTY	-0.0293	-0.0146	-0.0198	3.8725e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0126	2.8058e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0157	3.1644e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.5238e-03	0.0000e+00
128	IHT000001	130.9533	133.2970	132.0509	5.6619e-01	4.3074e+00
129	IHT000002	130.3185	132.8576	131.4552	5.8486e-01	4.3056e+00
130	IHT000003	129.3870	131.5354	130.3206	5.5424e-01	4.3021e+00
131	IHT000004	131.5655	133.7139	132.6201	5.3815e-01	4.3092e+00
132	IHT000005	129.7101	132.0538	130.8545	5.3816e-01	4.3038e+00
133	IHT000006	125.4394	127.9785	126.5840	5.5103e-01	4.2910e+00
134	IHT000007	131.6519	134.3863	132.9253	5.9089e-01	4.3101e+00
135	IHT000008	130.2885	133.0229	131.6713	5.8904e-01	4.3062e+00
136	IHT000009	129.8190	132.5533	131.2837	5.9090e-01	4.3051e+00
137	IHT000010	130.5852	132.5383	131.4836	5.7453e-01	4.3057e+00
138	IHT000011	131.2538	133.7928	132.4843	5.8427e-01	4.3087e+00
139	IHT000012	130.2772	132.4256	131.5350	5.1473e-01	4.3058e+00
140	IHT000013	91.7217	93.8702	92.9209	4.5508e-01	4.2040e+00
141	IHT000014	127.6517	129.4095	128.4174	4.8462e-01	4.2964e+00
142	IHT000015	94.5613	96.3191	95.4988	4.4117e-01	4.2098e+00
143	IHT000016	88.8860	90.6438	89.7141	4.1302e-01	4.1970e+00
144	IHT000017	105.2997	108.0341	106.7959	5.9269e-01	4.2368e+00
145	IHT000018	107.2791	108.8416	108.1229	4.3304e-01	4.2402e+00
146	IHT000019	107.6510	109.9947	108.6939	5.0163e-01	4.2416e+00
147	IHT000020	106.0171	108.1656	106.9663	4.3942e-01	4.2372e+00
148	IHT000021	-2.7006	0.2291	-1.3920	5.5278e-01	4.1000e+00
149	IHT000022	92.6382	94.7866	93.6421	4.0435e-01	4.2056e+00
150	IHT000023	105.6415	107.5946	106.4072	4.2834e-01	4.2358e+00
151	IHT000024	70.6167	72.5699	71.3628	4.0566e-01	4.1616e+00
152	IHT000025	103.1813	105.1345	103.9196	4.1999e-01	4.2296e+00
153	IHT000026	105.4988	107.8425	106.3074	4.3407e-01	4.2356e+00
154	IHT000027	90.1668	92.5105	91.0262	4.4293e-01	4.1998e+00
155	IHT000028	90.4072	92.5556	91.6923	5.4117e-01	4.2013e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.9007	108.2444	107.1077	5.2894e-01	4.2376e+00
157	IHT000030	108.2482	110.3966	109.4826	4.8878e-01	4.2437e+00
158	IHT000031	105.9195	108.2632	107.3569	5.0649e-01	4.2382e+00
159	IHT000032	107.3543	109.6980	108.4871	5.1448e-01	4.2411e+00
160	IHT000033	107.1665	109.5102	108.4360	5.2534e-01	4.2410e+00
161	IHT000034	93.7650	96.3041	94.9604	4.9700e-01	4.2085e+00
162	IHT000035	123.4751	125.8188	124.7446	4.5206e-01	4.2856e+00
163	IHT000036	92.6795	94.6326	93.5662	4.5542e-01	4.2054e+00

Velocity 1 = 4.9714 (ft/sec) (+/- 7.5204 %)
Velocity 2 = 4.8164 (ft/sec) (+/- 4.3141 %)
Pressure drop = -4.3221 (psi)
Tsats in = 268.1035 (deg F) Tsats out = 273.9099 (deg F)
Phi inner = 99.9635 (kBtu/hr-ft2) (+/- 1.5715 %)
Phi outer = 100.8326 (kBtu/hr-ft2) (+/- 1.5508 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.4849	76.1223	75.7191	1.5783e-01	1.9000e+00
1	TRF000002	75.9879	76.4106	76.1043	1.2248e-01	1.9000e+00
2	TFM000001	87.6976	88.7443	88.2999	2.2570e-01	1.9002e+00
3	TIN000001	87.8791	88.5087	88.1360	1.4852e-01	1.9002e+00
4	TRV000001	88.8783	90.0280	89.4821	2.2598e-01	1.9003e+00
5	TSR000001	159.0681	160.7484	159.9131	4.0248e-01	1.9054e+00
6	EMPTY	37.9974	38.9168	38.3774	2.2768e-01	1.9010e+00
7	TAO050136	187.7477	188.4270	188.0825	1.5844e-01	1.9094e+00
8	TAO070136	196.1664	197.2342	196.7293	2.0978e-01	1.9108e+00
9	TAO080136	195.8273	196.4059	196.0792	1.5729e-01	1.9107e+00
10	TAO090136	207.1730	208.0361	207.5783	2.0924e-01	1.9127e+00
11	TAO100136	213.7264	214.7771	214.2314	2.4582e-01	1.9140e+00
12	TAO105136	215.5255	216.5770	215.8787	2.3012e-01	1.9143e+00
13	EMPTY	40.9819	41.4403	41.2719	1.3043e-01	1.9011e+00
14	TAO115136	226.9880	227.8442	227.4750	2.1839e-01	1.9166e+00
15	EMPTY	31.5371	42.5851	37.8361	3.5349e+00	1.9010e+00
16	TAO125136	230.1577	230.8181	230.5293	1.4074e-01	1.9173e+00
17	EMPTY	32.1574	32.8585	32.4865	1.9034e-01	1.9007e+00
18	EMPTY	41.4403	41.8984	41.5852	1.2098e-01	1.9012e+00
19	TAO130048	227.4387	228.4769	227.9932	1.5499e-01	1.9167e+00
20	TAO120224	222.3638	223.2193	222.8586	2.1773e-01	1.9157e+00
21	EMPTY	38.9168	39.3761	39.1136	1.3260e-01	1.9010e+00
22	TAO120312	235.6516	236.5006	236.0480	2.2122e-01	1.9185e+00
23	TAO130312	227.6683	228.3305	228.0255	1.6178e-01	1.9167e+00
24	EMPTY	39.1464	39.8352	39.5119	2.0915e-01	1.9011e+00
25	TRT070000	207.2385	208.4933	207.8118	2.6696e-01	1.9128e+00
26	TRT100000	235.2586	236.2004	235.7255	1.9112e-01	1.9184e+00
27	TRT120000	239.0644	239.7225	239.3504	1.4981e-01	1.9192e+00
28	TRT125000	240.7462	241.5886	241.2460	1.8166e-01	1.9197e+00
29	EMPTY	39.8352	40.2940	40.0131	1.1724e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6056	2.0955e-01	1.9011e+00
31	TAF050136	127.1328	128.3500	127.7846	2.6886e-01	1.9022e+00
32	TAF070136	139.6722	141.3736	140.3371	4.0318e-01	1.9033e+00
33	TAF080136	145.1837	146.7762	145.7119	2.8959e-01	1.9039e+00
34	TAF090136	150.4580	151.5562	151.0591	3.0727e-01	1.9044e+00
35	TAF100136	159.1535	160.4450	159.8430	3.0851e-01	1.9054e+00
36	TAF105136	163.7564	166.0098	165.0157	3.6135e-01	1.9061e+00
37	TAF110136	169.6236	170.9943	170.4167	3.3296e-01	1.9068e+00
38	TAF115136	174.4559	175.4358	174.8215	2.2595e-01	1.9074e+00
39	TAF120136	178.0544	178.8344	178.3675	1.9903e-01	1.9079e+00
40	TAF125136	182.5066	183.7683	183.2227	3.2511e-01	1.9086e+00
41	TAF130136	186.0336	187.0048	186.4973	2.0633e-01	1.9091e+00
42	TAF120048	188.2813	189.7497	188.9906	3.7121e-01	1.9095e+00
43	TAF130048	193.8638	195.1219	194.4252	3.0980e-01	1.9104e+00
44	TAF120224	176.0778	177.8391	176.6410	3.2676e-01	1.9076e+00
45	TAF130224	183.0417	184.3147	183.8152	2.4415e-01	1.9087e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9552	2.4242e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.4464	1.3424e-01	1.9010e+00
48	TAI130048	240.1879	240.7518	240.5007	1.3346e-01	1.9195e+00
49	TAI130136	233.8639	234.7108	234.2922	1.6311e-01	1.9181e+00
50	TAI130224	198.5725	199.7328	199.0895	2.7675e-01	1.9112e+00
51	TAI130312	219.1926	220.4308	219.9353	3.4232e-01	1.9151e+00
52	TRR130000	141.6283	144.8335	143.3235	9.0828e-01	1.9036e+00
53	TSI000001	43.9766	44.8445	44.3926	2.1516e-01	1.9004e+00
54	TSI000002	117.2648	119.0023	118.0641	3.5068e-01	1.9016e+00
55	TSO000001	42.4045	43.4971	42.9329	2.1653e-01	1.9005e+00
56	TSO000002	55.2817	56.2506	55.7501	2.2039e-01	1.9001e+00
57	TAF020136	104.2505	105.6043	105.0095	3.4572e-01	1.9008e+00
58	EMPTY	42.5851	43.5000	43.1079	2.5140e-01	1.9013e+00
59	TAF130312	196.1465	197.6902	196.9459	3.2183e-01	1.9108e+00
60	EMPTY	3.0957	3.1152	3.1062	3.7293e-03	0.0000e+00
61	EMPTY	3.0957	3.1055	3.1014	2.0781e-03	0.0000e+00
62	EMPTY	3.0908	3.1006	3.0966	2.1547e-03	0.0000e+00
63	EMPTY	3.0957	3.1006	3.0988	2.3783e-03	0.0000e+00
64	EMPTY	1.4746	1.4795	1.4764	2.3783e-03	0.0000e+00
65	EMPTY	1.4893	1.4941	1.4894	6.9754e-04	0.0000e+00
66	EMPTY	1.4990	1.5039	1.4991	6.9754e-04	0.0000e+00
67	EMPTY	1.5088	1.5137	1.5118	2.4037e-03	0.0000e+00
68	EMPTY	1.5137	1.5186	1.5185	6.9754e-04	0.0000e+00
69	EMPTY	1.5283	1.5332	1.5307	2.4662e-03	0.0000e+00
70	EMPTY	1.5381	1.5430	1.5415	2.2737e-03	0.0000e+00
71	EMPTY	1.5527	1.5576	1.5574	9.7615e-04	0.0000e+00
72	EMPTY	1.5625	1.5674	1.5659	2.2737e-03	0.0000e+00
73	EMPTY	1.5771	1.5820	1.5778	1.7263e-03	0.0000e+00
74	EMPTY	1.5820	1.5918	1.5869	9.9670e-04	0.0000e+00
75	EMPTY	1.5967	1.6016	1.5989	2.4538e-03	0.0000e+00
76	EMPTY	1.6064	1.6113	1.6066	9.7615e-04	0.0000e+00
77	EMPTY	1.6162	1.6211	1.6208	1.1827e-03	0.0000e+00
78	EMPTY	1.6357	1.6406	1.6373	2.3135e-03	0.0000e+00
79	EMPTY	1.6553	1.6602	1.6557	1.3508e-03	0.0000e+00
80	PAN020136	-15.6122	-14.3152	-15.0610	2.4588e-01	8.7081e-01
81	PAN050136	-29.0865	-28.3236	-28.6723	1.7342e-01	1.6815e+00
82	PAN070136	-19.0555	-18.5978	-18.8391	1.0253e-01	8.7127e-01
83	PAN080136	-9.5615	-9.1800	-9.4011	8.4219e-02	8.7032e-01
84	PAN090136	-10.9994	-10.5417	-10.7783	8.5647e-02	8.7042e-01
85	PAN100136	-11.9692	-8.3834	-10.8015	1.1044e+00	8.7042e-01
86	PAN105136	-6.8452	-0.9705	-4.5065	1.4361e+00	8.7007e-01
87	PAN110136	-7.0256	0.6801	-4.1327	1.8596e+00	8.7006e-01
88	PAN115136	-7.3776	-3.1815	-4.2823	1.2445e+00	8.7007e-01
89	PAN120136	-4.5592	-2.2704	-3.1812	2.8606e-01	8.7004e-01
90	PAN125136	-5.9399	-5.4059	-5.6129	1.1860e-01	8.7011e-01
91	PAN130136	-4.1485	-3.6907	-3.9819	1.0753e-01	8.7006e-01
92	PAN120048	-11.7858	-7.8948	-8.7729	9.1581e-01	8.7028e-01
93	PAN130048	-9.0568	-8.4464	-8.8030	1.6873e-01	8.7028e-01
94	PAN120224	-8.7355	-8.4303	-8.5704	7.9937e-02	8.7026e-01
95	PAN130224	-9.6994	-9.3942	-9.5219	6.6780e-02	8.7033e-01
96	PAN120312	-8.7765	-8.3951	-8.6162	9.1134e-02	8.7027e-01
97	PAN130312	-9.7743	-9.3928	-9.5781	9.2134e-02	8.7033e-01
98	PAB000136	40.3155	40.7275	40.4958	7.7284e-02	5.8877e-01
99	PAB100136	43.6061	43.8350	43.7434	4.9444e-02	5.9022e-01
100	PAB125136	44.5392	44.6766	44.6037	3.7281e-02	5.9062e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7747	40.7512	40.3003	1.7830e-01	7.5674e-01
102	PRV000001	19.8773	19.9994	19.8823	2.4404e-02	7.5165e-01
103	PSR000001	44.9228	45.0448	44.9352	3.7334e-02	7.5837e-01
104	PFM000001	3.6445	3.9192	3.7473	8.0668e-02	5.0009e-01
105	PAN000136	-122.3020	-117.7244	-119.6582	9.7674e-01	4.9291e+00
106	PFM000002	3.4582	3.5757	3.5130	2.6035e-02	2.0019e-01
107	EMPTY	-0.0049	0.0049	-0.0019	3.9639e-03	0.0000e+00
108	EMPTY	-10.0000	3.9941	-5.0366	3.0141e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0010	2.4373e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0009	1.9103e-03	0.0000e+00
112	VPW000001	101.9531	102.7344	102.3079	1.9398e-01	1.0163e+00
113	VPW000002	118.7462	119.5275	119.0452	1.9573e-01	1.0799e+00
114	VPW000003	146.8262	147.6074	147.2048	1.7105e-01	1.1984e+00
115	VPW000004	104.5823	105.3636	105.0567	1.7830e-01	1.0264e+00
116	VPW000005	139.3743	139.9602	139.6851	1.4874e-01	1.1656e+00
117	VPW000006	145.9247	146.5107	146.1281	1.4352e-01	1.1937e+00
118	IPW000001	552.8135	560.6229	555.7219	2.1506e+00	9.2132e+00
119	IPW000002	1292.6411	1310.2026	1300.6056	5.1292e+00	1.3084e+01
120	IPW000003	1313.9625	1321.7625	1318.3801	1.7247e+00	1.3194e+01
121	IPW000004	381.2632	384.6811	383.2660	8.7030e-01	3.6287e+00
122	IPW000005	253.1672	254.6319	253.5956	3.6797e-01	2.8308e+00
123	IPW000006	265.7095	268.1509	266.6962	4.9324e-01	2.9050e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	4.3515e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.7902e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0183	3.3845e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0155	3.4054e-03	0.0000e+00
128	IHT0000001	130.7580	133.2970	131.9458	5.5219e-01	4.3071e+00
129	IHT0000002	130.3185	132.6622	131.4106	5.3625e-01	4.3054e+00
130	IHT0000003	129.1917	131.3401	130.2799	5.2589e-01	4.3020e+00
131	IHT0000004	131.3702	133.9093	132.6138	5.4181e-01	4.3091e+00
132	IHT0000005	129.7101	131.8585	130.8460	5.3737e-01	4.3037e+00
133	IHT0000006	125.4394	127.7832	126.5117	5.1230e-01	4.2907e+00
134	IHT0000007	131.6519	133.8003	132.8317	5.0265e-01	4.3098e+00
135	IHT0000008	130.4838	132.8275	131.5760	5.2122e-01	4.3060e+00
136	IHT0000009	130.0143	132.3580	131.2698	5.3191e-01	4.3050e+00
137	IHT0000010	129.9993	132.7336	131.3145	5.4777e-01	4.3052e+00
138	IHT0000011	131.0584	133.4022	132.3021	4.9906e-01	4.3082e+00
139	IHT0000012	130.0819	132.8162	131.3734	5.3758e-01	4.3053e+00
140	IHT0000013	91.7217	93.6749	92.8099	4.7508e-01	4.2037e+00
141	IHT0000014	127.2611	129.4095	128.3852	4.5897e-01	4.2963e+00
142	IHT0000015	94.5613	96.9050	95.4302	4.5989e-01	4.2096e+00
143	IHT0000016	88.8860	90.8391	89.7549	4.6333e-01	4.1971e+00
144	IHT0000017	104.1278	107.6435	105.8698	8.6233e-01	4.2345e+00
145	IHT0000018	106.4979	108.8416	107.8810	5.2109e-01	4.2396e+00
146	IHT0000019	107.6510	110.3854	108.5717	5.7774e-01	4.2413e+00
147	IHT0000020	105.8218	108.3609	106.8183	5.9435e-01	4.2369e+00
148	IHT0000021	-2.7006	0.8151	-1.5088	7.7332e-01	4.1000e+00
149	IHT0000022	92.6382	95.5679	93.7064	6.4298e-01	4.2057e+00
150	IHT0000023	105.0556	107.9853	106.2952	5.8668e-01	4.2355e+00
151	IHT0000024	70.2261	72.7652	71.2903	5.4235e-01	4.1615e+00
152	IHT0000025	102.7907	105.3298	103.7952	5.6382e-01	4.2293e+00
153	IHT0000026	105.4988	107.8425	106.2881	5.1050e-01	4.2355e+00
154	IHT0000027	90.1668	92.3152	91.1752	5.1110e-01	4.2002e+00
155	IHT0000028	90.7978	93.1415	91.7664	4.4028e-01	4.2014e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0960	108.2444	106.9490	4.3799e-01	4.2372e+00
157	IHT000030	108.6388	110.7873	109.3244	4.1837e-01	4.2433e+00
158	IHT000031	106.5054	108.4585	107.1989	4.0474e-01	4.2378e+00
159	IHT000032	107.5496	109.5027	108.3030	4.0853e-01	4.2406e+00
160	IHT000033	107.5571	109.5102	108.2547	4.1240e-01	4.2405e+00
161	IHT000034	94.1557	95.9135	94.8971	4.4032e-01	4.2084e+00
162	IHT000035	124.0610	125.8188	124.8303	4.0932e-01	4.2858e+00
163	IHT000036	92.8748	94.4373	93.5604	4.0486e-01	4.2054e+00

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Velocity 1 = 0.006500 (ft/sec)

Velocity 2 = 0.013400 (ft/sec)

Pressure Drop = 0.008800 (psi)

Tsat in = 0.168610 (deg F) Tsat out = 0.123688 (deg F)

Phi inner = 0.760002 (kBtu/hr-ft2) Phi outer = 0.148796 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0217	0.0287
1	TRF000002	0.0403	0.0530
2	TFM000001	1.1759	1.3497
3	TIN000001	0.8155	0.9339
4	TRV000001	2.1787	2.4956
5	TSR000001	4.1712	2.6783
6	EMPTY	0.1119	0.2907
7	TAO050136	0.4751	0.2520
8	TAO070136	0.4746	0.2407
9	TAO080136	0.2680	0.1365
10	TAO090136	0.4153	0.1997
11	TAO100136	0.4652	0.2167
12	TAO105136	0.4459	0.2061
13	EMPTY	0.0103	0.0250
14	TAO115136	0.6087	0.2669
15	EMPTY	0.2133	0.5670
16	TAO125136	1.3413	0.5785
17	EMPTY	0.0019	0.0058
18	EMPTY	0.0441	0.1062
19	TAO130048	0.7615	0.3329
20	TAO120224	0.6911	0.3091
21	EMPTY	0.0682	0.1747
22	TAO120312	0.7317	0.3090
23	TAO130312	0.7575	0.3311
24	EMPTY	0.0670	0.1699
25	TRT070000	0.6400	0.3070
26	TRT100000	0.6130	0.2594
27	TRT120000	0.5484	0.2286
28	TRT125000	0.2398	0.0993
29	EMPTY	0.0081	0.0202
30	EMPTY	0.0827	0.2084
31	TAF050136	0.1671	0.1306
32	TAF070136	0.1926	0.1371
33	TAF080136	0.2080	0.1425
34	TAF090136	0.2613	0.1727
35	TAF100136	0.2922	0.1825
36	TAF105136	0.2976	0.1800
37	TAF110136	0.7769	0.4538
38	TAF115136	0.4448	0.2538
39	TAF120136	0.4589	0.2566
40	TAF125136	0.0921	0.0503
41	TAF130136	0.4021	0.2151
42	TAF120048	0.0702	0.0371
43	TAF130048	0.3911	0.2008
44	TAF120224	0.3918	0.2213
45	TAF130224	0.5431	0.2946

#	Name	Abs Diff	%Diff
46	EMPTY	0.0008	0.0021
47	EMPTY	0.0244	0.0619
48	TAI130048	0.6119	0.2538
49	TAI130136	0.6243	0.2658
50	TAI130224	0.8655	0.4366
51	TAI130312	1.7065	0.7699
52	TRR130000	3.1160	2.1278
53	TSI000001	0.6155	1.4060
54	TSI000002	0.3414	0.2883
55	TSO000001	0.5552	1.3101
56	TSO000002	0.2743	0.4944
57	TAF020136	0.0379	0.0361
58	EMPTY	0.0673	0.1559
59	TAF130312	0.4816	0.2439
60	EMPTY	0.0142	0.4551
61	EMPTY	0.0149	0.4781
62	EMPTY	0.0157	0.5044
63	EMPTY	0.0157	0.5041
64	EMPTY	0.0076	0.5121
65	EMPTY	0.0083	0.5542
66	EMPTY	0.0085	0.5638
67	EMPTY	0.0069	0.4543
68	EMPTY	0.0075	0.4915
69	EMPTY	0.0075	0.4876
70	EMPTY	0.0065	0.4199
71	EMPTY	0.0085	0.5428
72	EMPTY	0.0067	0.4260
73	EMPTY	0.0089	0.5609
74	EMPTY	0.0096	0.6013
75	EMPTY	0.0076	0.4731
76	EMPTY	0.0095	0.5878
77	EMPTY	0.0095	0.5827
78	EMPTY	0.0083	0.5044
79	EMPTY	0.0092	0.5526
80	PAN020136	0.0187	0.1240
81	PAN050136	0.0480	0.1671
82	PAN070136	0.0262	0.1393
83	PAN080136	0.0094	0.0999
84	PAN090136	0.0212	0.1963
85	PAN100136	0.1362	1.2402
86	PAN105136	0.2294	5.3634
87	PAN110136	0.1741	4.3980
88	PAN115136	0.0297	0.6984
89	PAN120136	0.2565	7.4614
90	PAN125136	0.7518	15.4656
91	PAN130136	0.8395	17.4120
92	PAN120048	0.0542	0.6140
93	PAN130048	0.7878	8.2141
94	PAN120224	0.2408	2.8909
95	PAN130224	0.0020	0.0210
96	PAN120312	0.0594	0.6942
97	PAN130312	0.0602	0.6325
98	PAB000136	0.1145	0.2819
99	PAB100136	0.1246	0.2840
100	PAB125136	0.0912	0.2041

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dif

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#	Name	Abs Diff	%Diff
101	PIN0000001	0.1067	0.2641
102	PRV0000001	0.5617	2.9073
103	PSR0000001	0.1267	0.2812
104	PFM0000001	0.0108	0.2874
105	PAN000136	0.2451	0.2044
106	PFM0000002	0.0192	0.5495
107	EMPTY	0.0030	272.7273
108	EMPTY	0.2854	5.3626
109	EMPTY	0.0009	900.0001
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0007	350.0000
112	VPW0000001	0.1534	0.1600
113	VPW0000002	0.0565	0.0474
114	VPW0000003	0.0628	0.0426
115	VPW0000004	0.0212	0.0202
116	VPW0000005	0.0531	0.0380
117	VPW0000006	0.0002	0.0001
118	IPW0000001	12.4359	2.2890
119	IPW0000002	14.1238	1.0743
120	IPW0000003	10.5195	0.7916
121	IPW0000004	0.0108	0.0028
122	IPW0000005	0.3722	0.1466
123	IPW0000006	0.9568	0.3575
124	EMPTY	0.0019	9.5960
125	EMPTY	0.0016	12.6984
126	EMPTY	0.0026	16.5605
127	EMPTY	0.0009	5.4878
128	IHT0000001	0.1051	0.0796
129	IHT0000002	0.0446	0.0339
130	IHT0000003	0.0407	0.0312
131	IHT0000004	0.0063	0.0048
132	IHT0000005	0.0085	0.0065
133	IHT0000006	0.0723	0.0571
134	IHT0000007	0.0936	0.0704
135	IHT0000008	0.0953	0.0724
136	IHT0000009	0.0139	0.0106
137	IHT0000010	0.1691	0.1286
138	IHT0000011	0.1822	0.1375
139	IHT0000012	0.1616	0.1229
140	IHT0000013	0.1110	0.1195
141	IHT0000014	0.0322	0.0251
142	IHT0000015	0.0686	0.0718
143	IHT0000016	0.0408	0.0455
144	IHT0000017	0.9261	0.8672
145	IHT0000018	0.2419	0.2237
146	IHT0000019	0.1222	0.1124
147	IHT0000020	0.1480	0.1384
148	IHT0000021	0.1168	8.3908
149	IHT0000022	0.0643	0.0687
150	IHT0000023	0.1120	0.1053
151	IHT0000024	0.0725	0.1016
152	IHT0000025	0.1244	0.1197
153	IHT0000026	0.0193	0.0182
154	IHT0000027	0.1490	0.1637
155	IHT0000028	0.0741	0.0808

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1587	0.1482
157	IHT000030	0.1582	0.1445
158	IHT000031	0.1580	0.1472
159	IHT000032	0.1841	0.1697
160	IHT000033	0.1813	0.1672
161	IHT000034	0.0633	0.0667
162	IHT000035	0.0857	0.0687
163	IHT000036	0.0058	0.0062

Velocity 1 = 3.9984 (ft/sec) (+/- 10.9670 %)
Velocity 2 = 3.7953 (ft/sec) (+/- 5.4233 %)
Pressure drop = -4.6778 (psi)
Tsats in = 267.9198 (deg F) Tsats out = 274.1973 (deg F)
Phi inner = 100.9543 (kBtu/hr-ft2) (+/- 1.5692 %)
Phi outer = 100.7379 (kBtu/hr-ft2) (+/- 1.5524 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.4849	76.1223	75.8759	1.7359e-01	1.9000e+00
1	TRF000002	75.9879	76.4106	76.2753	1.1892e-01	1.9000e+00
2	TFM000001	85.9172	86.6501	86.3158	1.7972e-01	1.9002e+00
3	TIN000001	85.9883	86.6189	86.3917	1.4608e-01	1.9002e+00
4	TRV000001	87.1021	87.9406	87.4756	1.9520e-01	1.9002e+00
5	TSR000001	160.9445	163.1171	161.9919	5.7668e-01	1.9057e+00
6	EMPTY	37.7675	38.6870	38.3882	2.4241e-01	1.9010e+00
7	TAO050136	205.1679	206.0304	205.6625	2.1404e-01	1.9124e+00
8	TAO070136	215.4804	216.4396	216.0635	2.1891e-01	1.9143e+00
9	TAO080136	211.3275	211.9961	211.6756	1.6222e-01	1.9135e+00
10	TAO090136	229.2463	230.4747	229.7831	2.9473e-01	1.9171e+00
11	TAO100136	237.3235	238.1704	237.7864	2.0185e-01	1.9189e+00
12	TAO105136	239.5229	240.5585	240.1291	2.4282e-01	1.9194e+00
13	EMPTY	40.9819	41.4403	41.2661	1.2729e-01	1.9011e+00
14	TAO115136	252.8538	253.8829	253.3367	2.2156e-01	1.9225e+00
15	EMPTY	32.0000	42.8139	37.8992	3.4708e+00	1.9010e+00
16	TAO125136	257.9663	258.8927	258.3888	1.9367e-01	1.9238e+00
17	EMPTY	32.1574	32.8585	32.4939	2.2722e-01	1.9007e+00
18	EMPTY	41.4403	41.8984	41.5273	1.2148e-01	1.9012e+00
19	TAO130048	256.3164	257.1511	256.7945	1.6496e-01	1.9234e+00
20	TAO120224	247.5366	248.4724	247.9411	2.4891e-01	1.9212e+00
21	EMPTY	38.9168	39.3761	39.2153	1.1599e-01	1.9010e+00
22	TAO120312	265.1109	266.3156	265.6373	2.5012e-01	1.9256e+00
23	TAO130312	256.5915	257.3352	257.0600	1.8098e-01	1.9234e+00
24	EMPTY	39.1464	39.8352	39.5000	2.0852e-01	1.9011e+00
25	TRT070000	218.7010	221.2896	220.2614	6.2944e-01	1.9152e+00
26	TRT100000	265.1776	265.8250	265.4662	1.4305e-01	1.9256e+00
27	TRT120000	269.9670	270.8893	270.3841	2.0098e-01	1.9269e+00
28	TRT125000	272.1789	273.0959	272.6552	1.8720e-01	1.9275e+00
29	EMPTY	39.8352	40.2940	40.0693	9.8220e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6883	2.0086e-01	1.9011e+00
31	TAF050136	135.5129	137.8272	136.5845	5.0011e-01	1.9030e+00
32	TAF070136	151.5307	154.0109	152.5796	6.3924e-01	1.9046e+00
33	TAF080136	157.7591	159.8283	158.6942	4.3646e-01	1.9053e+00
34	TAF090136	165.1517	166.7315	165.9693	4.1689e-01	1.9062e+00
35	TAF100136	175.7547	178.7973	177.4356	7.7002e-01	1.9078e+00
36	TAF105136	182.1597	185.8304	183.8838	1.1577e+00	1.9087e+00
37	TAF110136	189.5713	193.8152	191.7325	1.0423e+00	1.9100e+00
38	TAF115136	194.5816	198.0545	195.5278	7.9993e-01	1.9106e+00
39	TAF120136	199.4153	202.5782	201.2177	6.4222e-01	1.9116e+00
40	TAF125136	205.0050	208.2474	206.5005	8.9518e-01	1.9125e+00
41	TAF130136	209.3411	210.8692	210.0900	3.7476e-01	1.9132e+00
42	TAF120048	212.6470	216.3979	214.0054	8.8183e-01	1.9139e+00
43	TAF130048	219.9583	223.5690	221.1453	6.2568e-01	1.9153e+00
44	TAF120224	196.8740	199.8623	198.4822	6.2998e-01	1.9111e+00
45	TAF130224	205.9946	208.1176	207.1873	4.8737e-01	1.9126e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.8272	2.1697e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.5001	1.2455e-01	1.9011e+00
48	TAI130048	270.5479	271.1936	270.8466	1.4024e-01	1.9270e+00
49	TAI130136	262.6404	263.1964	262.9075	1.5484e-01	1.9249e+00
50	TAI130224	223.4236	224.4694	223.9711	2.1011e-01	1.9159e+00
51	TAI130312	243.5901	244.3406	243.9803	2.0003e-01	1.9203e+00
52	TRR130000	142.7310	144.5333	143.5607	4.4678e-01	1.9036e+00
53	TSI000001	43.8682	44.6284	44.2895	1.9943e-01	1.9004e+00
54	TSI000002	78.6632	80.2425	79.3759	3.7264e-01	1.9001e+00
55	TSO000001	41.6382	42.5118	42.1405	2.0831e-01	1.9005e+00
56	TSO000002	57.1116	58.1867	57.7050	2.0865e-01	1.9001e+00
57	TAF020136	106.8523	108.7214	107.6785	4.0243e-01	1.9010e+00
58	EMPTY	42.5851	43.5000	43.1021	2.3016e-01	1.9013e+00
59	TAF130312	222.9243	225.5779	224.5018	5.4800e-01	1.9160e+00
60	EMPTY	3.7842	3.8086	3.8012	5.4247e-03	0.0000e+00
61	EMPTY	3.7842	3.7939	3.7905	3.1583e-03	0.0000e+00
62	EMPTY	3.7744	3.7891	3.7815	2.8266e-03	0.0000e+00
63	EMPTY	3.7744	3.7842	3.7793	2.2058e-03	0.0000e+00
64	EMPTY	1.7725	1.7773	1.7727	9.6655e-04	0.0000e+00
65	EMPTY	1.7822	1.7871	1.7863	1.8082e-03	0.0000e+00
66	EMPTY	1.7920	1.7969	1.7930	1.9730e-03	0.0000e+00
67	EMPTY	1.8018	1.8066	1.8020	9.6655e-04	0.0000e+00
68	EMPTY	1.8066	1.8115	1.8091	2.4662e-03	0.0000e+00
69	EMPTY	1.8164	1.8213	1.8202	2.0432e-03	0.0000e+00
70	EMPTY	1.8262	1.8311	1.8268	1.6028e-03	0.0000e+00
71	EMPTY	1.8408	1.8457	1.8444	2.1635e-03	0.0000e+00
72	EMPTY	1.8457	1.8506	1.8505	6.9053e-04	0.0000e+00
73	EMPTY	1.8604	1.8652	1.8604	6.9053e-04	0.0000e+00
74	EMPTY	1.8652	1.8701	1.8699	9.6655e-04	0.0000e+00
75	EMPTY	1.8799	1.8799	1.8799	0.0000e+00	0.0000e+00
76	EMPTY	1.8848	1.8896	1.8855	1.8082e-03	0.0000e+00
77	EMPTY	1.8994	1.8994	1.8994	0.0000e+00	0.0000e+00
78	EMPTY	1.9141	1.9189	1.9142	6.9053e-04	0.0000e+00
79	EMPTY	1.9287	1.9336	1.9319	2.3365e-03	0.0000e+00
80	PAN020136	-17.4433	-16.6803	-17.1472	1.6286e-01	8.7106e-01
81	PAN050136	-31.0701	-30.6124	-30.32	1.3564e-01	1.6818e+00
82	PAN070136	-22.0310	-19.2844	-20.9552	9.2883e-01	8.7158e-01
83	PAN080136	-10.4007	-7.9593	-8.9741	9.0813e-01	8.7029e-01
84	PAN090136	-13.3645	-10.9994	-13.1830	3.6046e-01	8.7062e-01
85	PAN100136	-12.3507	-2.7377	-7.5594	1.8810e+00	8.7021e-01
86	PAN105136	-6.8452	1.5472	-3.4547	2.2360e+00	8.7004e-01
87	PAN110136	-7.0256	0.7563	-5.4036	1.5105e+00	8.7010e-01
88	PAN115136	-7.3776	-2.3422	-4.0207	1.0998e+00	8.7006e-01
89	PAN120136	-5.5510	2.0021	-4.2143	1.2808e+00	8.7006e-01
90	PAN125136	-6.0925	-1.0571	-5.1953	9.8618e-01	8.7010e-01
91	PAN130136	-7.8869	1.6499	-4.8031	1.4997e+00	8.7008e-01
92	PAN120048	-11.1754	-4.0038	-10.1897	1.0967e+00	8.7037e-01
93	PAN130048	-12.7189	-8.7516	-10.2378	7.8371e-01	8.7038e-01
94	PAN120224	-12.4739	-4.3104	-9.6129	1.5630e+00	8.7033e-01
95	PAN130224	-13.2852	-5.8847	-9.6185	1.2231e+00	8.7033e-01
96	PAN120312	-14.1171	-3.2071	-9.5440	1.4656e+00	8.7033e-01
97	PAN130312	-14.4282	-9.5454	-10.5067	8.4761e-01	8.7040e-01
98	PAB000136	40.2697	40.5444	40.3714	6.5584e-02	5.8872e-01
99	PAB100136	43.6519	44.0639	43.9146	8.7644e-02	5.9030e-01
100	PAB125136	44.5392	44.9054	44.8157	6.6664e-02	5.9072e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0188	40.6292	40.2459	1.4592e-01	7.5672e-01
102	PRV000001	19.2669	19.3890	19.3548	5.5366e-02	7.5156e-01
103	PSR000001	45.1669	45.2890	45.1913	4.9324e-02	7.5846e-01
104	PFM000001	2.2713	2.5459	2.4031	6.4499e-02	5.0004e-01
105	PAN000136	-131.9150	-121.3865	-129.5072	1.5021e+00	4.9306e+00
106	PFM000002	2.1159	2.1830	2.1598	1.7579e-02	2.0007e-01
107	EMPTY	-0.0049	0.0049	-0.0017	3.7706e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-9.0224	3.6044e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0001	1.8429e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	101.7578	102.7344	102.3203	2.2544e-01	1.0164e+00
113	VPW000002	118.9415	119.7228	119.2853	1.7451e-01	1.0809e+00
114	VPW000003	147.0215	147.9980	147.4824	1.9635e-01	1.1996e+00
115	VPW000004	104.7777	105.7542	105.2347	2.1472e-01	1.0270e+00
116	VPW000005	139.1789	140.3508	139.8351	2.4881e-01	1.1662e+00
117	VPW000006	145.7294	146.7060	146.2451	2.0412e-01	1.1942e+00
118	IPW000001	529.3854	546.9564	538.4052	4.3725e+00	9.1488e+00
119	IPW000002	1306.3000	1319.9590	1313.5587	3.8229e+00	1.3164e+01
120	IPW000003	1323.7125	1339.3125	1331.5123	3.4793e+00	1.3276e+01
121	IPW000004	376.3803	381.2632	379.0950	1.4436e+00	3.6013e+00
122	IPW000005	252.1908	254.6319	253.3820	6.2509e-01	2.8296e+00
123	IPW000006	265.7095	267.6626	266.5300	5.0724e-01	2.9040e+00
124	EMPTY	-0.0342	-0.0146	-0.0217	4.6438e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0049	-0.0140	3.4187e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0163	4.2556e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0154	3.6057e-03	0.0000e+00
128	IHT000001	130.5627	133.1017	131.9884	5.1938e-01	4.3072e+00
129	IHT000002	130.1232	132.4669	131.4083	4.4484e-01	4.3054e+00
130	IHT000003	129.1917	131.3401	130.3089	4.9133e-01	4.3021e+00
131	IHT000004	131.3702	133.7139	132.6006	5.2386e-01	4.3091e+00
132	IHT000005	129.7101	132.0538	130.8350	5.2875e-01	4.3037e+00
133	IHT000006	125.4394	127.7832	126.5176	5.1485e-01	4.2908e+00
134	IHT000007	131.8472	133.9957	132.8433	4.8045e-01	4.3098e+00
135	IHT000008	130.6791	132.6322	131.5854	4.7147e-01	4.3060e+00
136	IHT000009	130.2096	132.5533	131.2134	5.1450e-01	4.3048e+00
137	IHT000010	130.5852	132.5383	131.4367	5.0649e-01	4.3055e+00
138	IHT000011	131.4491	133.2069	132.2889	4.4860e-01	4.3081e+00
139	IHT000012	130.2772	132.4256	131.4022	4.8095e-01	4.3054e+00
140	IHT000013	92.1124	93.8702	92.9444	4.3191e-01	4.2040e+00
141	IHT000014	127.6517	129.2142	128.4018	4.3290e-01	4.2964e+00
142	IHT000015	94.7566	96.3191	95.5691	4.4531e-01	4.2099e+00
143	IHT000016	88.8860	90.8391	89.7571	4.3800e-01	4.1971e+00
144	IHT000017	103.9325	107.8388	105.9521	1.0804e+00	4.2347e+00
145	IHT000018	106.8885	109.2323	108.0213	6.0618e-01	4.2399e+00
146	IHT000019	107.4557	109.7994	108.6001	6.1004e-01	4.2414e+00
147	IHT000020	105.4312	107.7749	106.7163	6.0886e-01	4.2366e+00
148	IHT000021	-3.0912	-0.3568	-1.6771	7.2067e-01	4.1000e+00
149	IHT000022	92.0523	94.9820	93.4780	6.0650e-01	4.2052e+00
150	IHT000023	104.8603	107.2040	106.2041	5.5333e-01	4.2353e+00
151	IHT000024	70.0308	72.3745	71.2066	5.5872e-01	4.1614e+00
152	IHT000025	102.5954	104.9392	103.7556	5.6139e-01	4.2292e+00
153	IHT000026	104.9128	107.0613	106.0926	5.6076e-01	4.2350e+00
154	IHT000027	89.7762	91.9246	90.9285	5.6255e-01	4.1996e+00
155	IHT000028	90.4072	92.5556	91.5869	4.8642e-01	4.2010e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.9007	107.8538	106.8890	4.4888e-01	4.2370e+00
157	IHT000030	108.2482	110.3966	109.2833	4.9639e-01	4.2431e+00
158	IHT000031	106.1148	108.4585	107.1968	4.6557e-01	4.2378e+00
159	IHT000032	107.1590	109.3074	108.2567	4.9109e-01	4.2405e+00
160	IHT000033	107.1665	109.3149	108.2407	5.0571e-01	4.2405e+00
161	IHT000034	93.7650	95.7182	94.8588	4.7021e-01	4.2083e+00
162	IHT000035	123.4751	125.8188	124.7017	4.8172e-01	4.2854e+00
163	IHT000036	92.4842	94.4373	93.5428	4.6704e-01	4.2054e+00

Velocity 1 = 3.9930 (ft/sec) (+/- 10.9944 %)
Velocity 2 = 3.8014 (ft/sec) (+/- 5.4128 %)
Pressure drop = -4.6969 (psi)
Tsats in = 267.9643 (deg F) Tsats out = 274.2655 (deg F)
Phi inner = 100.7200 (kBtu/hr-ft2) (+/- 1.5697 %)
Phi outer = 100.9657 (kBtu/hr-ft2) (+/- 1.5511 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.4849	76.1223	75.8752	1.7532e-01	1.9000e+00
1	TRF000002	75.9879	76.4106	76.2467	9.8974e-02	1.9000e+00
2	TFM000001	85.9172	86.7564	86.3710	2.1445e-01	1.9002e+00
3	TIN000001	85.9883	86.8289	86.3592	1.6630e-01	1.9002e+00
4	TRV000001	87.1021	88.0449	87.5750	1.7761e-01	1.9002e+00
5	TSR000001	161.8335	164.5942	163.1099	7.4678e-01	1.9058e+00
6	EMPTY	37.7675	38.9168	38.4384	2.5628e-01	1.9010e+00
7	TAO050136	205.3588	206.0304	205.6588	1.6902e-01	1.9124e+00
8	TAO070136	215.4812	216.6305	216.0421	2.4677e-01	1.9143e+00
9	TAO080136	211.3291	212.0916	211.7234	1.5210e-01	1.9135e+00
10	TAO090136	229.1518	230.5686	229.7863	3.2326e-01	1.9171e+00
11	TAO100136	237.3235	238.2643	237.7594	2.2856e-01	1.9189e+00
12	TAO105136	239.7115	240.8404	240.1320	2.5200e-01	1.9194e+00
13	EMPTY	40.9819	41.4403	41.2860	1.1821e-01	1.9011e+00
14	TAO115136	252.8531	253.7899	253.3772	2.3154e-01	1.9225e+00
15	EMPTY	32.4627	42.8139	37.6295	3.5590e+00	1.9010e+00
16	TAO125136	257.8735	258.8927	258.3484	1.9887e-01	1.9238e+00
17	EMPTY	32.1574	32.8585	32.6153	1.9056e-01	1.9007e+00
18	EMPTY	41.4403	41.8984	41.5571	1.2479e-01	1.9012e+00
19	TAO130048	256.4093	257.1511	256.8572	1.6318e-01	1.9234e+00
20	TAO120224	247.6304	248.5661	248.0429	2.3302e-01	1.9212e+00
21	EMPTY	38.9168	39.6057	39.2214	1.4362e-01	1.9010e+00
22	TAO120312	265.4815	266.1304	265.8448	1.9367e-01	1.9257e+00
23	TAO130312	256.6848	257.8916	257.0979	2.0240e-01	1.9234e+00
24	EMPTY	39.1464	39.8352	39.5166	1.8636e-01	1.9011e+00
25	TRT070000	217.6446	221.6719	219.6493	9.5229e-01	1.9150e+00
26	TRT100000	264.9924	265.9174	265.5494	1.9928e-01	1.9256e+00
27	TRT120000	269.6899	270.7049	270.3211	1.9605e-01	1.9268e+00
28	TRT125000	272.3604	273.2778	272.7489	2.0012e-01	1.9275e+00
29	EMPTY	39.8352	40.2940	40.0740	1.0429e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6619	2.2242e-01	1.9011e+00
31	TAF050136	135.8155	137.6262	136.6084	4.1815e-01	1.9030e+00
32	TAF070136	151.4324	154.5037	152.6798	7.5236e-01	1.9046e+00
33	TAF080136	157.3648	160.1246	158.7292	4.7274e-01	1.9053e+00
34	TAF090136	165.3491	167.3232	166.1350	4.3534e-01	1.9062e+00
35	TAF100136	175.8531	179.4830	177.3718	8.6653e-01	1.9078e+00
36	TAF105136	181.8683	186.3139	183.0613	6.6869e-01	1.9086e+00
37	TAF110136	188.7006	195.6437	192.1282	1.7106e+00	1.9100e+00
38	TAF115136	194.4862	197.8612	196.1238	1.0443e+00	1.9107e+00
39	TAF120136	199.7022	202.1003	200.9082	6.2772e-01	1.9115e+00
40	TAF125136	204.5273	207.6745	205.8442	6.7671e-01	1.9124e+00
41	TAF130136	208.5758	210.8680	210.1812	4.3611e-01	1.9132e+00
42	TAF120048	212.4544	216.3014	214.0901	1.0065e+00	1.9139e+00
43	TAF130048	220.3394	222.9995	221.4391	5.8661e-01	1.9154e+00
44	TAF120224	197.3568	199.6697	198.5288	5.8039e-01	1.9111e+00
45	TAF130224	206.5743	208.2133	207.4007	4.1228e-01	1.9127e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0490	2.1129e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6104	1.1937e-01	1.9011e+00
48	TAI130048	270.5474	271.3782	271.0486	1.8367e-01	1.9270e+00
49	TAI130136	262.5487	263.2885	263.0165	2.1790e-01	1.9249e+00
50	TAI130224	223.8038	224.7551	224.3513	2.5279e-01	1.9160e+00
51	TAI130312	243.8714	245.1849	244.6680	3.4095e-01	1.9204e+00
52	TRR130000	142.5310	145.3324	144.0452	6.4165e-01	1.9037e+00
53	TSI000001	43.7597	44.7367	44.3688	2.0040e-01	1.9004e+00
54	TSI000002	78.7692	80.9808	80.0093	5.6227e-01	1.9001e+00
55	TSO000001	41.6382	42.7306	42.2692	2.4057e-01	1.9005e+00
56	TSO000002	57.2189	58.2944	57.6842	2.1096e-01	1.9001e+00
57	TAF020136	106.9559	108.8243	107.8672	4.0335e-01	1.9010e+00
58	EMPTY	42.8139	43.5000	43.1360	2.4666e-01	1.9013e+00
59	TAF130312	223.4940	225.4832	224.5977	4.7139e-01	1.9160e+00
60	EMPTY	3.7939	3.8135	3.8049	4.7310e-03	0.0000e+00
61	EMPTY	3.7891	3.8037	3.7946	3.3057e-03	0.0000e+00
62	EMPTY	3.7842	3.7939	3.7861	2.6022e-03	0.0000e+00
63	EMPTY	3.7793	3.7891	3.7842	1.9934e-03	0.0000e+00
64	EMPTY	1.7725	1.7773	1.7748	2.4621e-03	0.0000e+00
65	EMPTY	1.7871	1.7920	1.7874	1.1827e-03	0.0000e+00
66	EMPTY	1.7920	1.7969	1.7958	2.0584e-03	0.0000e+00
67	EMPTY	1.8018	1.8066	1.8054	2.1215e-03	0.0000e+00
68	EMPTY	1.8066	1.8164	1.8111	1.6787e-03	0.0000e+00
69	EMPTY	1.8164	1.8213	1.8211	9.7615e-04	0.0000e+00
70	EMPTY	1.8262	1.8311	1.8304	1.7263e-03	0.0000e+00
71	EMPTY	1.8457	1.8555	1.8460	1.5467e-03	0.0000e+00
72	EMPTY	1.8506	1.8555	1.8515	1.9103e-03	0.0000e+00
73	EMPTY	1.8604	1.8652	1.8638	2.2287e-03	0.0000e+00
74	EMPTY	1.8701	1.8750	1.8703	9.7615e-04	0.0000e+00
75	EMPTY	1.8799	1.8848	1.8809	1.9883e-03	0.0000e+00
76	EMPTY	1.8848	1.8945	1.8896	9.9670e-04	0.0000e+00
77	EMPTY	1.8994	1.9043	1.8998	1.3508e-03	0.0000e+00
78	EMPTY	1.9141	1.9189	1.9153	2.1215e-03	0.0000e+00
79	EMPTY	1.9287	1.9336	1.9335	6.9754e-04	0.0000e+00
80	PAN020136	-17.5196	-16.8329	-17.1645	1.6813e-01	8.7106e-01
81	PAN050136	-31.0701	-30.4598	-30.7868	1.3929e-01	1.6818e+00
82	PAN070136	-22.4887	-19.3607	-20.9971	9.8975e-01	8.7158e-01
83	PAN080136	-10.5533	-7.5779	-8.9076	9.4640e-01	8.7028e-01
84	PAN090136	-13.3645	-12.0675	-13.1341	3.1127e-01	8.7062e-01
85	PAN100136	-12.9611	-2.8903	-9.0078	2.4698e+00	8.7029e-01
86	PAN105136	-6.7689	-1.2757	-4.3960	1.6178e+00	8.7007e-01
87	PAN110136	-6.4153	2.8926	-3.7933	1.5590e+00	8.7005e-01
88	PAN115136	-7.4539	0.6332	-3.7108	1.2918e+00	8.7005e-01
89	PAN120136	-6.4665	0.6288	-4.8924	1.2773e+00	8.7009e-01
90	PAN125136	-6.0925	-4.0326	-5.2829	5.4880e-01	8.7010e-01
91	PAN130136	-6.2847	-0.1049	-4.4007	1.1283e+00	8.7007e-01
92	PAN120048	-12.0910	-9.0392	-10.7083	7.7330e-01	8.7041e-01
93	PAN130048	-10.8878	-7.7598	-9.7683	6.8689e-01	8.7034e-01
94	PAN120224	-12.9316	-2.4794	-9.0796	1.7352e+00	8.7030e-01
95	PAN130224	-13.2852	-8.6313	-10.0622	9.5260e-01	8.7036e-01
96	PAN120312	-14.1934	-8.5476	-10.1031	1.0807e+00	8.7037e-01
97	PAN130312	-11.7579	-9.0113	-10.3379	5.8516e-01	8.7038e-01
98	PAB000136	40.2239	40.5444	40.4015	5.4989e-02	5.8873e-01
99	PAB100136	43.6519	44.1554	43.9555	1.0723e-01	5.9032e-01
100	PAB125136	44.7681	44.9512	44.8662	4.5776e-02	5.9075e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0188	40.6292	40.3476	1.3233e-01	7.5675e-01
102	PRV000001	19.2669	19.3890	19.3043	5.6843e-02	7.5155e-01
103	PSR000001	45.1669	45.2890	45.2516	5.6843e-02	7.5848e-01
104	PFM000001	2.2713	2.5459	2.3964	7.8610e-02	5.0004e-01
105	PAN000136	-131.4573	-125.0486	-130.0373	1.1222e+00	4.9307e+00
106	PFM000002	2.1326	2.2165	2.1669	2.1652e-02	2.0007e-01
107	EMPTY	-0.0049	0.0000	-0.0048	6.9754e-04	0.0000e+00
108	EMPTY	-10.0000	4.1406	-7.9566	4.2628e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0026	2.4621e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0098	0.0000	-0.0026	2.6562e-03	0.0000e+00
112	VPW000001	101.7578	102.9297	102.4115	3.5109e-01	1.0167e+00
113	VPW000002	118.7462	119.7228	119.1847	2.1665e-01	1.0805e+00
114	VPW000003	146.8262	147.9980	147.4161	2.6592e-01	1.1993e+00
115	VPW000004	104.5823	105.7542	105.1484	3.0427e-01	1.0267e+00
116	VPW000005	138.9836	140.3508	139.7209	3.3656e-01	1.1657e+00
117	VPW000006	145.3388	146.7060	146.0164	3.4087e-01	1.1932e+00
118	IPW000001	539.1471	550.8611	545.0439	2.6879e+00	9.1733e+00
119	IPW000002	1306.3000	1319.9590	1312.5122	2.9180e+00	1.3158e+01
120	IPW000003	1323.7125	1333.4625	1328.4879	2.6719e+00	1.3257e+01
121	IPW000004	377.8452	383.7046	381.0837	1.3727e+00	3.6143e+00
122	IPW000005	252.1908	255.1202	253.5956	7.2302e-01	2.8308e+00
123	IPW000006	265.7095	268.1509	266.8656	6.5883e-01	2.9060e+00
124	EMPTY	-0.0293	-0.0146	-0.0225	3.7048e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0154	3.2060e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0193	3.5880e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0174	3.3057e-03	0.0000e+00
128	IHT000001	130.5627	133.1017	131.7983	6.7704e-01	4.3066e+00
129	IHT000002	129.9279	132.4669	131.2592	6.3247e-01	4.3050e+00
130	IHT000003	128.8011	131.5354	130.1324	6.9246e-01	4.3016e+00
131	IHT000004	131.1749	133.9093	132.4503	7.0770e-01	4.3086e+00
132	IHT000005	129.5147	132.0538	130.7105	6.8896e-01	4.3033e+00
133	IHT000006	125.0488	127.5879	126.3243	6.2797e-01	4.2902e+00
134	IHT000007	131.4566	133.9957	132.6842	6.1246e-01	4.3094e+00
135	IHT000008	130.0932	132.6322	131.4445	5.8163e-01	4.3056e+00
136	IHT000009	129.6237	132.1627	131.0745	5.8999e-01	4.3044e+00
137	IHT000010	129.9993	132.5383	131.4182	5.5066e-01	4.3055e+00
138	IHT000011	130.6678	133.5975	132.1586	6.0554e-01	4.3077e+00
139	IHT000012	129.8866	133.0116	131.2538	6.4409e-01	4.3050e+00
140	IHT000013	91.7217	94.6514	93.0291	5.7665e-01	4.2042e+00
141	IHT000014	127.0658	130.1908	128.5208	5.7091e-01	4.2967e+00
142	IHT000015	94.3660	97.1003	95.6933	5.7219e-01	4.2102e+00
143	IHT000016	88.8860	92.0110	90.0698	5.9590e-01	4.1978e+00
144	IHT000017	104.7138	108.2294	106.5992	8.5186e-01	4.2363e+00
145	IHT000018	107.4745	109.6229	108.4191	5.3242e-01	4.2409e+00
146	IHT000019	107.6510	109.7994	108.6634	4.7621e-01	4.2416e+00
147	IHT000020	105.6265	108.1656	106.7983	5.1366e-01	4.2368e+00
148	IHT000021	-2.7006	-0.3568	-1.4450	5.4373e-01	4.1000e+00
149	IHT000022	92.4429	94.7866	93.7463	5.2193e-01	4.2058e+00
150	IHT000023	104.8603	107.2040	106.2913	4.7906e-01	4.2355e+00
151	IHT000024	70.0308	72.1792	71.3262	4.5052e-01	4.1616e+00
152	IHT000025	102.5954	104.7438	103.8151	4.3405e-01	4.2294e+00
153	IHT000026	104.9128	106.8660	106.1645	4.2365e-01	4.2352e+00
154	IHT000027	90.1668	91.9246	91.1154	4.7172e-01	4.2000e+00
155	IHT000028	90.7978	92.7509	91.6907	4.7842e-01	4.2013e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.9007	107.8538	106.8254	4.7970e-01	4.2369e+00
157	IHT000030	108.2482	110.5919	109.2048	4.8048e-01	4.2429e+00
158	IHT000031	106.3101	108.4585	107.1232	4.6382e-01	4.2376e+00
159	IHT000032	107.3543	109.6980	108.1874	4.9278e-01	4.2403e+00
160	IHT000033	107.1665	109.7055	108.1470	5.1442e-01	4.2402e+00
161	IHT000034	93.7650	95.9135	94.7735	5.1265e-01	4.2081e+00
162	IHT000035	123.2798	125.6235	124.5114	5.4110e-01	4.2849e+00
163	IHT000036	92.4842	95.0233	93.5006	5.4370e-01	4.2053e+00

Velocity 1 = 0.005400 (ft/sec)
 Velocity 2 = 0.006100 (ft/sec)
 Pressure Drop = 0.019100 (psi)
 Tsat in = 0.044495 (deg F) Tsat out = 0.068207 (deg F)
 Phi inner = 0.234299 (kBtu/hr-ft2) Phi outer = 0.227798 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0007	0.0009
1	TRF000002	0.0286	0.0375
2	TFM000001	0.0552	0.0639
3	TIN000001	0.0325	0.0376
4	TRV000001	0.0994	0.1136
5	TSR000001	1.1180	0.6902
6	EMPTY	0.0502	0.1308
7	TAO050136	0.0037	0.0018
8	TAO070136	0.0214	0.0099
9	TAO080136	0.0478	0.0226
10	TAO090136	0.0032	0.0014
11	TAO100136	0.0270	0.0114
12	TAO105136	0.0029	0.0012
13	EMPTY	0.0199	0.0482
14	TAO115136	0.0405	0.0160
15	EMPTY	0.2697	0.7116
16	TAO125136	0.0404	0.0156
17	EMPTY	0.1214	0.3736
18	EMPTY	0.0298	0.0718
19	TAO130048	0.0627	0.0244
20	TAO120224	0.1018	0.0411
21	EMPTY	0.0061	0.0156
22	TAO120312	0.2075	0.0781
23	TAO130312	0.0379	0.0147
24	EMPTY	0.0166	0.0420
25	TRT070000	0.6121	0.2779
26	TRT100000	0.0832	0.0313
27	TRT120000	0.0630	0.0233
28	TRT125000	0.0937	0.0344
29	EMPTY	0.0047	0.0117
30	EMPTY	0.0264	0.0665
31	TAF050136	0.0239	0.0175
32	TAF070136	0.1002	0.0657
33	TAF080136	0.0350	0.0221
34	TAF090136	0.1657	0.0998
35	TAF100136	0.0638	0.0360
36	TAF105136	0.8225	0.4473
37	TAF110136	0.3957	0.2064
38	TAF115136	0.5960	0.3048
39	TAF120136	0.3095	0.1538
40	TAF125136	0.6563	0.3178
41	TAF130136	0.0912	0.0434
42	TAF120048	0.0847	0.0396
43	TAF130048	0.2938	0.1329
44	TAF120224	0.0466	0.0235
45	TAF130224	0.2134	0.1030

#	Name	Abs Diff	%Diff
46	EMPTY	0.2218	0.5863
47	EMPTY	0.1103	0.2792
48	TAI130048	0.2020	0.0746
49	TAI130136	0.1090	0.0415
50	TAI130224	0.3802	0.1698
51	TAI130312	0.6877	0.2819
52	TRR130000	0.4845	0.3375
53	TSI000001	0.0793	0.1790
54	TSI000002	0.6334	0.7980
55	TSO000001	0.1287	0.3054
56	TSO000002	0.0208	0.0360
57	TAF020136	0.1887	0.1752
58	EMPTY	0.0339	0.0787
59	TAF130312	0.0959	0.0427
60	EMPTY	0.0037	0.0973
61	EMPTY	0.0041	0.1082
62	EMPTY	0.0046	0.1216
63	EMPTY	0.0049	0.1297
64	EMPTY	0.0021	0.1185
65	EMPTY	0.0011	0.0616
66	EMPTY	0.0028	0.1562
67	EMPTY	0.0034	0.1887
68	EMPTY	0.0020	0.1106
69	EMPTY	0.0009	0.0494
70	EMPTY	0.0036	0.1971
71	EMPTY	0.0016	0.0867
72	EMPTY	0.0010	0.0540
73	EMPTY	0.0034	0.1828
74	EMPTY	0.0004	0.0214
75	EMPTY	0.0010	0.0532
76	EMPTY	0.0041	0.2175
77	EMPTY	0.0004	0.0211
78	EMPTY	0.0011	0.0575
79	EMPTY	0.0016	0.0828
80	PAN020136	0.1173	0.1009
81	PAN050136	0.1064	0.3444
82	PAN070136	0.0419	0.2000
83	PAN080136	0.0665	0.7410
84	PAN090136	0.0489	0.3709
85	PAN100136	1.4484	19.1603
86	PAN105136	0.9413	27.2469
87	PAN110136	1.6103	29.8005
88	PAN115136	0.3099	7.7076
89	PAN120136	0.6781	16.0904
90	PAN125136	0.0876	1.6861
91	PAN130136	0.4024	8.3779
92	PAN120048	0.5186	5.0894
93	PAN130048	0.4695	4.5859
94	PAN120224	0.5333	5.5477
95	PAN130224	0.4437	4.6130
96	PAN120312	0.5591	5.8581
97	PAN130312	0.1688	1.6066
98	PAB000136	0.0301	0.0746
99	PAB100136	0.0409	0.0931
100	PAB125136	0.0505	0.1127

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1017	0.2527
102	PRV000001	0.0505	0.2609
103	PSR000001	0.0603	0.1334
104	PFM000001	0.0067	0.2788
105	PAN000136	0.5301	0.4093
106	PFM000002	0.0071	0.3287
107	EMPTY	0.0031	182.3530
108	EMPTY	1.0658	11.8128
109	EMPTY	0.0025	2500.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0025	2500.0000
112	VPW000001	0.0912	0.0891
113	VPW000002	0.1006	0.0843
114	VPW000003	0.0663	0.0450
115	VPW000004	0.0863	0.0820
116	VPW000005	0.1142	0.0817
117	VPW000006	0.2287	0.1564
118	IPW000001	6.6387	1.2330
119	IPW000002	1.0465	0.0797
120	IPW000003	3.0244	0.2271
121	IPW000004	1.9887	0.5246
122	IPW000005	0.2136	0.0843
123	IPW000006	0.3356	0.1259
124	EMPTY	0.0008	3.6866
125	EMPTY	0.0014	10.0000
126	EMPTY	0.0030	18.4049
127	EMPTY	0.0020	12.9870
128	IHT000001	0.1901	0.1440
129	IHT000002	0.1491	0.1135
130	IHT000003	0.1765	0.1354
131	IHT000004	0.1503	0.1133
132	IHT000005	0.1245	0.0952
133	IHT000006	0.1933	0.1528
134	IHT000007	0.1591	0.1198
135	IHT000008	0.1409	0.1071
136	IHT000009	0.1389	0.1059
137	IHT000010	0.0185	0.0141
138	IHT000011	0.1303	0.0985
139	IHT000012	0.1484	0.1129
140	IHT000013	0.0847	0.0911
141	IHT000014	0.1190	0.0927
142	IHT000015	0.1242	0.1300
143	IHT000016	0.3127	0.3484
144	IHT000017	0.6471	0.6107
145	IHT000018	0.3978	0.3683
146	IHT000019	0.0633	0.0583
147	IHT000020	0.0820	0.0768
148	IHT000021	0.2321	13.8394
149	IHT000022	0.2683	0.2870
150	IHT000023	0.0872	0.0821
151	IHT000024	0.1196	0.1680
152	IHT000025	0.0595	0.0573
153	IHT000026	0.0719	0.0678
154	IHT000027	0.1869	0.2056
155	IHT000028	0.1038	0.1133

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#	Name	Abs Dlf	%Dlf
156	IHT0000029	0.0636	0.0595
157	IHT0000030	0.0785	0.0718
158	IHT0000031	0.0736	0.0687
159	IHT0000032	0.0693	0.0640
160	IHT0000033	0.0937	0.0866
161	IHT0000034	0.0853	0.0899
162	IHT0000035	0.1903	0.1526
163	IHT0000036	0.0422	0.0451

Test: Feb01_09

sum1

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Velocity 1 = 3.4857 (ft/sec) (+/- 14.2158 %)
 Velocity 2 = 3.2150 (ft/sec) (+/- 6.8105 %)
 Pressure drop = -4.8392 (psi)
 Tsat in = 268.2747 (deg F) Tsat out = 274.7266 (deg F)
 Phi inner = 100.8289 (kBtu/hr-ft2) (+/- 1.5695 %)
 Phi outer = 100.5210 (kBtu/hr-ft2) (+/- 1.5532 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.9099	76.5470	76.2752	1.7183e-01	1.9000e+00
1	TRF000002	76.4106	77.0442	76.7148	1.4882e-01	1.9000e+00
2	TFM000001	87.3848	88.2225	87.7787	2.0023e-01	1.9002e+00
3	TIN000001	87.4590	88.0887	87.6897	1.5142e-01	1.9002e+00
4	TRV000001	87.9406	89.0911	88.4261	2.1934e-01	1.9002e+00
5	TSR000001	163.3152	168.4317	166.1736	1.2995e+00	1.9062e+00
6	EMPTY	37.9974	38.6870	38.4158	2.0605e-01	1.9010e+00
7	TAO050136	219.2633	220.1174	219.7191	1.8392e-01	1.9150e+00
8	TAO070136	230.7564	231.7997	231.5038	2.0608e-01	1.9175e+00
9	TAO080136	228.5565	229.4049	229.0206	1.7955e-01	1.9170e+00
10	TAO090136	246.4409	247.2827	246.7739	2.1799e-01	1.9209e+00
11	TAO100136	254.7252	255.8421	255.4026	2.3856e-01	1.9230e+00
12	TAO105136	257.4037	258.9865	258.2829	3.9586e-01	1.9237e+00
13	EMPTY	40.9819	41.4403	41.2386	1.5795e-01	1.9011e+00
14	TAO115136	273.9801	275.2740	274.7198	3.2024e-01	1.9280e+00
15	EMPTY	31.7686	42.8139	39.2753	2.8989e+00	1.9010e+00
16	TAO125136	282.2253	283.1386	282.6484	2.3531e-01	1.9302e+00
17	EMPTY	32.1574	33.0921	32.6201	2.1371e-01	1.9007e+00
18	EMPTY	41.2111	41.8984	41.5227	1.4458e-01	1.9012e+00
19	TAO130048	279.8693	280.2367	280.0856	1.1680e-01	1.9295e+00
20	TAO120224	268.1765	269.1005	268.5903	2.3338e-01	1.9264e+00
21	EMPTY	39.1464	39.6057	39.3761	1.6069e-01	1.9010e+00
22	TAO120312	285.6627	286.6703	286.2449	1.9654e-01	1.9312e+00
23	TAO130312	277.2507	278.0769	277.6508	1.7273e-01	1.9288e+00
24	EMPTY	39.1464	39.8352	39.5460	2.0643e-01	1.9011e+00
25	TRT070000	231.3134	233.4063	232.4478	5.6004e-01	1.9177e+00
26	TRT100000	285.7493	287.2105	286.5639	2.4951e-01	1.9313e+00
27	TRT120000	290.4175	291.3296	290.9755	1.7060e-01	1.9326e+00
28	TRT125000	291.1308	291.8583	291.5380	1.7034e-01	1.9328e+00
29	EMPTY	39.8352	40.2940	40.0784	8.5593e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6240	2.0657e-01	1.9011e+00
31	TAF050136	144.8429	146.6397	145.7856	4.5536e-01	1.9039e+00
32	TAF070136	162.8983	165.5518	164.0883	5.9332e-01	1.9060e+00
33	TAF080136	170.0265	173.8338	171.4651	8.0125e-01	1.9069e+00
34	TAF090136	178.6158	183.1079	180.4843	1.0349e+00	1.9082e+00
35	TAF100136	191.2886	195.4612	193.0598	1.0394e+00	1.9102e+00
36	TAF105136	198.4161	203.9548	200.3857	1.2767e+00	1.9114e+00
37	TAF110136	207.8172	216.6654	211.7669	2.6747e+00	1.9135e+00
38	TAF115136	213.3870	216.4342	214.7284	7.1378e-01	1.9141e+00
39	TAF120136	219.8075	222.8333	220.7548	5.5968e-01	1.9152e+00
40	TAF125136	225.6643	227.6432	226.8061	4.6031e-01	1.9165e+00
41	TAF130136	230.9744	233.4227	231.6755	4.6540e-01	1.9175e+00
42	TAF120048	233.7770	236.1506	235.0725	6.0000e-01	1.9183e+00
43	TAF130048	242.9020	245.1509	244.3002	4.8828e-01	1.9204e+00
44	TAF120224	214.2363	216.9989	215.5206	5.3839e-01	1.9142e+00
45	TAF130224	225.3642	227.2681	226.3659	5.1117e-01	1.9164e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9560	2.3085e-01	1.9010e+00
47	EMPTY	39.3761	40.0646	39.6975	1.3116e-01	1.9011e+00
48	TAI130048	291.3768	292.1976	291.7452	2.0185e-01	1.9328e+00
49	TAI130136	285.0257	285.8478	285.3872	1.6916e-01	1.9310e+00
50	TAI130224	236.4066	237.5393	236.9995	2.8407e-01	1.9187e+00
51	TAI130312	256.0239	257.1416	256.5677	3.0002e-01	1.9233e+00
52	TRR130000	148.3293	151.6167	149.9046	8.8255e-01	1.9043e+00
53	TSI000001	44.0865	44.7383	44.4209	1.6684e-01	1.9004e+00
54	TSI000002	148.6708	149.7692	149.2899	2.5738e-01	1.9042e+00
55	TSO000001	42.4011	43.3847	42.7949	2.3655e-01	1.9005e+00
56	TSO000002	59.0459	60.1193	59.4538	2.3255e-01	1.9001e+00
57	TAF020136	111.4149	113.3806	112.3175	4.6217e-01	1.9012e+00
58	EMPTY	42.8139	43.7285	43.1707	2.5373e-01	1.9013e+00
59	TAF130312	243.5508	246.6358	244.5651	4.9166e-01	1.9204e+00
60	EMPTY	4.3018	4.3213	4.3074	5.0648e-03	0.0000e+00
61	EMPTY	4.2871	4.3018	4.2937	2.9197e-03	0.0000e+00
62	EMPTY	4.2773	4.2871	4.2820	3.2658e-03	0.0000e+00
63	EMPTY	4.2725	4.2822	4.2765	3.3728e-03	0.0000e+00
64	EMPTY	1.9922	1.9971	1.9930	1.8082e-03	0.0000e+00
65	EMPTY	2.0020	2.0068	2.0042	2.4583e-03	0.0000e+00
66	EMPTY	2.0117	2.0117	2.0117	0.0000e+00	0.0000e+00
67	EMPTY	2.0117	2.0215	2.0193	2.6396e-03	0.0000e+00
68	EMPTY	2.0215	2.0264	2.0250	2.2146e-03	0.0000e+00
69	EMPTY	2.0313	2.0361	2.0330	2.3675e-03	0.0000e+00
70	EMPTY	2.0410	2.0410	2.0410	0.0000e+00	0.0000e+00
71	EMPTY	2.0508	2.0605	2.0558	1.2041e-03	0.0000e+00
72	EMPTY	2.0557	2.0654	2.0605	9.8648e-04	0.0000e+00
73	EMPTY	2.0654	2.0703	2.0702	6.9053e-04	0.0000e+00
74	EMPTY	2.0752	2.0898	2.0767	2.8334e-03	0.0000e+00
75	EMPTY	2.0850	2.0898	2.0852	9.6655e-04	0.0000e+00
76	EMPTY	2.0898	2.0947	2.0903	1.4797e-03	0.0000e+00
77	EMPTY	2.0996	2.1045	2.1035	1.9730e-03	0.0000e+00
78	EMPTY	2.1094	2.1191	2.1163	2.6267e-03	0.0000e+00
79	EMPTY	2.1289	2.1338	2.1337	6.9053e-04	0.0000e+00
80	PAN020136	-18.9691	-17.5958	-18.1741	2.6523e-01	8.7119e-01
81	PAN050136	-33.6641	-30.4598	-32.4801	6.9246e-01	1.6820e+00
82	PAN070136	-25.7694	-18.6740	-23.6576	1.5897e+00	8.7201e-01
83	PAN080136	-10.8585	-5.0602	-6.3770	1.1951e+00	8.7015e-01
84	PAN090136	-13.3645	-7.3373	-12.8213	9.4674e-01	8.7059e-01
85	PAN100136	-13.0374	-6.7813	-10.1733	1.6115e+00	8.7037e-01
86	PAN105136	-6.0059	-2.7253	-4.5747	7.6443e-01	8.7008e-01
87	PAN110136	-6.9493	2.2822	-4.5507	1.6678e+00	8.7007e-01
88	PAN115136	-7.3776	-2.5711	-4.7440	8.9985e-01	8.7008e-01
89	PAN120136	-6.4665	-2.5755	-5.1772	8.3252e-01	8.7010e-01
90	PAN125136	-6.0162	-3.7274	-5.3067	5.0425e-01	8.7010e-01
91	PAN130136	-5.1403	-3.5381	-4.5284	3.2423e-01	8.7007e-01
92	PAN120048	-12.0147	-9.4207	-10.7543	6.2425e-01	8.7042e-01
93	PAN130048	-10.1249	-8.1412	-9.6183	4.5562e-01	8.7033e-01
94	PAN120224	-10.9480	-8.8881	-9.8982	4.2981e-01	8.7035e-01
95	PAN130224	-10.6912	-8.7839	-9.8612	3.5640e-01	8.7035e-01
96	PAN120312	-12.6675	-6.3351	-10.0171	1.0407e+00	8.7036e-01
97	PAN130312	-10.3083	-7.6380	-9.6217	5.5575e-01	8.7033e-01
98	PAB000136	40.4528	40.7733	40.6122	7.4124e-02	5.8882e-01
99	PAB100136	44.1097	44.3843	44.2287	5.3926e-02	5.9045e-01
100	PAB125136	45.1343	45.3174	45.2085	4.9709e-02	5.9091e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1409	40.7512	40.4387	1.3317e-01	7.5678e-01
102	PRV000001	19.5111	19.6331	19.5135	1.7263e-02	7.5158e-01
103	PSR000001	45.5331	45.6552	45.5844	6.0861e-02	7.5861e-01
104	PFM000001	1.6304	1.9966	1.8135	7.6263e-02	5.0002e-01
105	PAN000136	-135.5771	-131.9150	-133.9750	8.2330e-01	4.9314e+00
106	PFM000002	1.4950	1.5789	1.5360	2.2012e-02	2.0004e-01
107	EMPTY	-0.0049	0.0049	-0.0012	3.6326e-03	0.0000e+00
108	EMPTY	-10.0000	1.3184	-9.6643	1.6747e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0003	1.8216e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0004	1.3381e-03	0.0000e+00
112	VPW000001	102.1484	102.7344	102.4609	1.3669e-01	1.0169e+00
113	VPW000002	119.1369	119.5275	119.2931	1.1838e-01	1.0809e+00
114	VPW000003	147.2168	147.8027	147.4941	1.4276e-01	1.1997e+00
115	VPW000004	104.9730	105.5589	105.2035	1.4600e-01	1.0269e+00
116	VPW000005	139.7649	140.1555	139.9445	1.2992e-01	1.1667e+00
117	VPW000006	146.1200	146.5107	146.2841	1.0705e-01	1.1943e+00
118	IPW000001	537.1947	543.0518	540.5917	1.5683e+00	9.1569e+00
119	IPW000002	1300.4463	1316.0564	1306.5342	4.4187e+00	1.3120e+01
120	IPW000003	1323.7125	1333.4625	1328.9775	2.0184e+00	1.3260e+01
121	IPW000004	377.3569	379.7983	378.6849	6.0037e-01	3.5986e+00
122	IPW000005	252.6790	253.6555	252.9328	2.8315e-01	2.8271e+00
123	IPW000006	266.1978	268.1509	266.9108	3.7186e-01	2.9062e+00
124	EMPTY	-0.0244	-0.0098	-0.0189	3.6433e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0131	2.3008e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0150	3.9261e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.8206e-03	0.0000e+00
128	IHT000001	130.7580	133.4923	131.9025	6.1385e-01	4.3070e+00
129	IHT000002	130.3185	133.0529	131.3068	6.2317e-01	4.3051e+00
130	IHT000003	129.3870	131.3401	130.2386	5.5630e-01	4.3019e+00
131	IHT000004	131.5655	133.9093	132.4639	5.8793e-01	4.3087e+00
132	IHT000005	129.7101	132.0538	130.7452	5.2830e-01	4.3034e+00
133	IHT000006	125.2441	127.5879	126.4160	5.5102e-01	4.2905e+00
134	IHT000007	131.8472	134.1910	132.8433	5.6806e-01	4.3098e+00
135	IHT000008	130.4838	133.0229	131.5463	6.0123e-01	4.3059e+00
136	IHT000009	129.8190	132.7487	131.1587	6.1638e-01	4.3047e+00
137	IHT000010	130.3899	132.9289	131.3976	5.3432e-01	4.3054e+00
138	IHT000011	131.2538	133.7928	132.3241	5.1333e-01	4.3082e+00
139	IHT000012	130.2772	132.6209	131.3241	5.1412e-01	4.3052e+00
140	IHT000013	91.9171	93.8702	92.8155	4.8648e-01	4.2037e+00
141	IHT000014	127.4564	129.4095	128.4995	4.8905e-01	4.2967e+00
142	IHT000015	94.1707	96.3191	95.3855	4.9488e-01	4.2095e+00
143	IHT000016	88.6907	90.6438	89.8196	4.6737e-01	4.1972e+00
144	IHT000017	104.7138	108.0341	106.8779	6.2744e-01	4.2370e+00
145	IHT000018	106.8885	109.4276	108.0721	5.1207e-01	4.2400e+00
146	IHT000019	107.6510	109.9947	108.7212	5.4994e-01	4.2417e+00
147	IHT000020	105.8218	107.9703	106.7905	5.0680e-01	4.2368e+00
148	IHT000021	-2.7006	0.0338	-1.4193	6.2160e-01	4.1000e+00
149	IHT000022	92.8335	94.7866	93.6304	4.7978e-01	4.2056e+00
150	IHT000023	105.4462	107.2040	106.2197	4.3755e-01	4.2354e+00
151	IHT000024	70.4214	71.9839	71.2378	4.0566e-01	4.1614e+00
152	IHT000025	102.9860	104.7438	103.8102	4.5556e-01	4.2294e+00
153	IHT000026	105.3035	107.2566	106.0926	4.6179e-01	4.2350e+00
154	IHT000027	89.9715	92.1199	91.0223	4.7333e-01	4.1998e+00
155	IHT000028	90.7978	93.3368	91.7119	5.5586e-01	4.2013e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.9007	108.4398	106.9984	5.2481e-01	4.2373e+00
157	IHT000030	108.2482	110.9826	109.3849	5.1854e-01	4.2434e+00
158	IHT000031	106.3101	109.0445	107.2124	5.2183e-01	4.2379e+00
159	IHT000032	107.3543	109.5027	108.2332	5.3851e-01	4.2405e+00
160	IHT000033	107.1665	109.5102	108.0095	5.4621e-01	4.2404e+00
161	IHT000034	93.7650	96.1088	94.7260	5.3502e-01	4.2080e+00
162	IHT000035	123.6704	126.2095	124.6626	5.4224e-01	4.2853e+00
163	IHT000036	92.4842	94.8280	93.3787	5.0082e-01	4.2050e+00

Velocity 1 = 3.4523 (ft/sec) (+/- 14.4829 %)
Velocity 2 = 3.2322 (ft/sec) (+/- 6.7556 %)
Pressure drop = -4.8424 (psi)
Tsats in = 268.2438 (deg F) Tsats out = 274.7299 (deg F)
Phi inner = 100.5356 (kBtu/hr-ft2) (+/- 1.5702 %)
Phi outer = 100.3396 (kBtu/hr-ft2) (+/- 1.5533 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.9099	76.5470	76.3563	1.7471e-01	1.9000e+00
1	TRF000002	76.4106	77.0442	76.7210	1.2273e-01	1.9000e+00
2	TFM000001	87.4900	88.2225	87.8617	1.6974e-01	1.9002e+00
3	TIN000001	87.4585	88.0887	87.7545	1.7099e-01	1.9002e+00
4	TRV000001	88.0453	89.1943	88.6324	2.6547e-01	1.9002e+00
5	TSR000001	161.8362	170.0997	166.0258	2.5157e+00	1.9062e+00
6	EMPTY	37.9974	38.9168	38.4103	2.3448e-01	1.9010e+00
7	TAO050136	219.4524	220.2129	219.8563	1.8026e-01	1.9151e+00
8	TAO070136	230.9459	231.9887	231.4531	2.4611e-01	1.9175e+00
9	TAO080136	228.5561	229.3117	229.0189	2.0040e-01	1.9170e+00
10	TAO090136	246.2540	247.2822	246.7847	2.1026e-01	1.9209e+00
11	TAO100136	254.9115	255.9349	255.4014	2.5257e-01	1.9230e+00
12	TAO105136	257.1248	258.9865	258.0901	4.2173e-01	1.9237e+00
13	EMPTY	40.9819	41.4403	41.2298	1.5398e-01	1.9011e+00
14	TAO115136	274.1651	275.3666	274.7650	2.9346e-01	1.9280e+00
15	EMPTY	31.0739	42.8139	38.7555	3.5500e+00	1.9010e+00
16	TAO125136	282.0419	283.1376	282.6517	2.7613e-01	1.9302e+00
17	EMPTY	32.1574	33.0921	32.6343	2.1310e-01	1.9007e+00
18	EMPTY	41.4403	41.6693	41.5618	1.1551e-01	1.9012e+00
19	TAO130048	279.7777	280.4194	280.0847	1.4672e-01	1.9295e+00
20	TAO120224	267.8990	268.9157	268.4291	2.5087e-01	1.9263e+00
21	EMPTY	39.1464	39.6057	39.4136	1.3540e-01	1.9010e+00
22	TAO120312	285.4792	286.5784	286.1298	2.5100e-01	1.9312e+00
23	TAO130312	277.3425	277.8935	277.6667	1.5113e-01	1.9288e+00
24	EMPTY	39.1464	39.8352	39.5026	1.8780e-01	1.9011e+00
25	TRT070000	231.6933	233.5969	232.6998	4.5834e-01	1.9178e+00
26	TRT100000	286.1140	287.0280	286.5435	2.0442e-01	1.9313e+00
27	TRT120000	290.4170	291.3296	290.9424	1.7121e-01	1.9326e+00
28	TRT125000	291.1304	291.8583	291.5762	1.7026e-01	1.9328e+00
29	EMPTY	40.0646	40.2940	40.1021	8.5670e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6853	2.1752e-01	1.9011e+00
31	TAF050136	145.1434	146.9406	145.9620	4.1925e-01	1.9039e+00
32	TAF070136	162.8957	166.1408	164.1671	6.5533e-01	1.9060e+00
33	TAF080136	170.4172	173.3472	171.5906	6.4691e-01	1.9069e+00
34	TAF090136	179.2030	182.2306	180.1719	7.6542e-01	1.9082e+00
35	TAF100136	191.2886	195.8487	193.5454	1.1829e+00	1.9103e+00
36	TAF105136	198.8011	203.2889	200.4634	1.2351e+00	1.9114e+00
37	TAF110136	207.6263	216.0003	211.4787	2.6437e+00	1.9134e+00
38	TAF115136	213.3865	216.0540	214.6782	7.3558e-01	1.9140e+00
39	TAF120136	219.9025	222.5518	220.8091	5.7932e-01	1.9153e+00
40	TAF125136	225.5707	227.8297	226.7683	5.1607e-01	1.9165e+00
41	TAF130136	230.9737	232.5764	231.7016	4.2133e-01	1.9175e+00
42	TAF120048	234.0623	236.7183	235.1781	5.5611e-01	1.9183e+00
43	TAF130048	243.5579	245.4315	244.2772	4.3062e-01	1.9204e+00
44	TAF120224	214.7121	217.5704	215.8873	5.4082e-01	1.9143e+00
45	TAF130224	225.7453	227.7446	226.5670	5.3450e-01	1.9164e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0443	2.2984e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7649	1.3419e-01	1.9011e+00
48	TAI130048	291.3763	292.1066	291.7938	1.5585e-01	1.9329e+00
49	TAI130136	285.1170	285.6655	285.3949	1.5593e-01	1.9310e+00
50	TAI130224	235.6516	236.9730	236.3875	3.4412e-01	1.9186e+00
51	TAI130312	256.0239	256.7692	256.3338	1.6726e-01	1.9232e+00
52	TRR130000	148.6294	150.5233	149.4939	4.4448e-01	1.9043e+00
53	TSI000001	43.9775	44.8466	44.5231	1.9884e-01	1.9004e+00
54	TSI000002	148.8699	149.8690	149.3230	2.4541e-01	1.9042e+00
55	TSO000001	42.2915	43.1665	42.7917	2.4423e-01	1.9005e+00
56	TSO000002	59.0455	59.9048	59.5367	2.1917e-01	1.9001e+00
57	TAF020136	111.1033	114.4156	112.3103	6.2142e-01	1.9012e+00
58	EMPTY	42.5851	43.5000	43.1500	2.5183e-01	1.9013e+00
59	TAF130312	243.6439	245.5156	244.6566	4.1022e-01	1.9204e+00
60	EMPTY	4.2969	4.3164	4.3092	4.3562e-03	0.0000e+00
61	EMPTY	4.2871	4.2969	4.2951	2.9388e-03	0.0000e+00
62	EMPTY	4.2773	4.2871	4.2819	3.0572e-03	0.0000e+00
63	EMPTY	4.2725	4.2822	4.2762	2.8655e-03	0.0000e+00
64	EMPTY	1.9922	1.9971	1.9930	1.8234e-03	0.0000e+00
65	EMPTY	2.0020	2.0068	2.0037	2.3783e-03	0.0000e+00
66	EMPTY	2.0068	2.0117	2.0109	1.8234e-03	0.0000e+00
67	EMPTY	2.0166	2.0215	2.0193	2.4538e-03	0.0000e+00
68	EMPTY	2.0215	2.0264	2.0232	2.3483e-03	0.0000e+00
69	EMPTY	2.0313	2.0361	2.0322	1.9883e-03	0.0000e+00
70	EMPTY	2.0361	2.0459	2.0402	2.0781e-03	0.0000e+00
71	EMPTY	2.0508	2.0557	2.0550	1.7263e-03	0.0000e+00
72	EMPTY	2.0557	2.0654	2.0600	2.0535e-03	0.0000e+00
73	EMPTY	2.0654	2.0703	2.0699	1.3508e-03	0.0000e+00
74	EMPTY	2.0752	2.0801	2.0755	1.1827e-03	0.0000e+00
75	EMPTY	2.0801	2.0850	2.0847	1.1827e-03	0.0000e+00
76	EMPTY	2.0850	2.0947	2.0899	1.2165e-03	0.0000e+00
77	EMPTY	2.0947	2.1045	2.1008	2.3440e-03	0.0000e+00
78	EMPTY	2.1143	2.1191	2.1147	1.3508e-03	0.0000e+00
79	EMPTY	2.1289	2.1484	2.1314	3.4702e-03	0.0000e+00
80	PAN020136	-18.5877	-15.9937	-17.8901	5.2881e-01	8.7115e-01
81	PAN050136	-35.0374	-31.2227	-32.5836	6.0141e-01	1.6820e+00
82	PAN070136	-25.6931	-19.3607	-23.7889	1.1654e+00	8.7203e-01
83	PAN080136	-10.0193	-4.4498	-6.2186	1.0119e+00	8.7014e-01
84	PAN090136	-13.2882	-8.0240	-13.0080	8.7799e-01	8.7061e-01
85	PAN100136	-12.9611	-4.4161	-8.9657	1.8808e+00	8.7029e-01
86	PAN105136	-6.8452	0.2502	-4.4380	1.4527e+00	8.7007e-01
87	PAN110136	-6.9493	1.9771	-4.6730	1.3294e+00	8.7008e-01
88	PAN115136	-7.3776	-3.1052	-4.4925	9.4199e-01	8.7007e-01
89	PAN120136	-6.4665	-4.0251	-5.3361	5.9764e-01	8.7010e-01
90	PAN125136	-6.0925	-3.1933	-5.1505	6.0967e-01	8.7010e-01
91	PAN130136	-6.1321	-3.0804	-4.6078	5.3892e-01	8.7008e-01
92	PAN120048	-11.6332	-9.4970	-10.6398	4.9235e-01	8.7041e-01
93	PAN130048	-10.2775	-8.5227	-9.6905	4.0617e-01	8.7034e-01
94	PAN120224	-12.7028	-9.0406	-9.9951	7.4283e-01	8.7036e-01
95	PAN130224	-10.5387	-6.9528	-9.8473	6.3650e-01	8.7035e-01
96	PAN120312	-11.4468	-8.7765	-10.1919	5.1957e-01	8.7037e-01
97	PAN130312	-10.3846	-8.5536	-9.7665	4.3221e-01	8.7034e-01
98	PAB000136	40.4528	40.7733	40.5911	6.5067e-02	5.8881e-01
99	PAB100136	43.9266	44.3843	44.2339	7.3575e-02	5.9045e-01
100	PAB125136	45.1343	45.3174	45.2109	4.8901e-02	5.9091e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0188	40.7512	40.4448	1.8667e-01	7.5679e-01
102	PRV000001	19.5111	19.7552	19.6232	4.1968e-02	7.5160e-01
103	PSR000001	45.5331	45.6552	45.5929	6.1655e-02	7.5861e-01
104	PFM000001	1.6304	1.9050	1.7780	6.9464e-02	5.0002e-01
105	PAN000136	-135.5771	-132.3728	-134.0637	8.2102e-01	4.9314e+00
106	PFM000002	1.5286	1.5957	1.5529	1.3727e-02	2.0004e-01
107	EMPTY	-0.0049	0.0000	-0.0048	6.9754e-04	0.0000e+00
108	EMPTY	-10.0000	3.9746	-6.8149	5.1232e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0035	2.2287e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0017	2.3483e-03	0.0000e+00
112	VPW000001	102.1484	102.5391	102.2601	1.1276e-01	1.0161e+00
113	VPW000002	119.1369	119.5275	119.2445	1.0594e-01	1.0807e+00
114	VPW000003	147.2168	147.8027	147.4838	1.4753e-01	1.1996e+00
115	VPW000004	104.9730	105.3636	105.2002	1.3430e-01	1.0269e+00
116	VPW000005	139.7649	140.1555	139.8684	1.0625e-01	1.1664e+00
117	VPW000006	145.9247	146.7060	146.2835	1.7077e-01	1.1943e+00
118	IPW000001	541.0994	548.9088	545.5618	2.0708e+00	9.1753e+00
119	IPW000002	1296.5437	1302.3975	1299.3710	1.5962e+00	1.3076e+01
120	IPW000003	1321.7625	1327.6125	1324.4690	1.4795e+00	1.3232e+01
121	IPW000004	378.3335	379.3100	378.7120	3.6301e-01	3.5988e+00
122	IPW000005	252.6790	254.1437	253.0675	3.3023e-01	2.8279e+00
123	IPW000006	266.1978	267.6626	266.8755	3.9639e-01	2.9060e+00
124	EMPTY	-0.0293	-0.0098	-0.0227	4.4071e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0154	2.8796e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0192	3.0572e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0172	3.0070e-03	0.0000e+00
128	IHT000001	130.7580	132.7111	131.6787	4.8007e-01	4.3063e+00
129	IHT000002	130.3185	132.4669	131.1675	4.2296e-01	4.3047e+00
130	IHT000003	129.1917	131.1448	130.0766	4.7190e-01	4.3014e+00
131	IHT000004	131.3702	133.5186	132.3786	4.6893e-01	4.3084e+00
132	IHT000005	129.9054	131.6632	130.6268	4.4072e-01	4.3031e+00
133	IHT000006	125.4394	127.1973	126.3482	4.4135e-01	4.2903e+00
134	IHT000007	131.8472	133.6050	132.7400	4.1623e-01	4.3095e+00
135	IHT000008	130.6791	132.6322	131.4883	4.5281e-01	4.3057e+00
136	IHT000009	130.2096	132.3580	131.1183	4.6928e-01	4.3046e+00
137	IHT000010	130.1946	132.5383	131.3703	5.0820e-01	4.3053e+00
138	IHT000011	131.0584	133.4022	132.2583	4.6664e-01	4.3080e+00
139	IHT000012	129.8866	132.4256	131.3056	4.9439e-01	4.3051e+00
140	IHT000013	91.5264	94.0655	92.8378	4.7172e-01	4.2038e+00
141	IHT000014	127.0658	129.6049	128.4610	4.9795e-01	4.2965e+00
142	IHT000015	94.1707	96.5144	95.4462	4.8682e-01	4.2096e+00
143	IHT000016	88.6907	90.8391	89.7151	4.4311e-01	4.1970e+00
144	IHT000017	104.3232	107.4482	106.1129	7.9870e-01	4.2351e+00
145	IHT000018	107.0838	109.2323	108.2278	5.1056e-01	4.2404e+00
146	IHT000019	108.0416	109.4088	108.6395	3.8942e-01	4.2415e+00
147	IHT000020	106.0171	107.5796	106.6748	4.3252e-01	4.2365e+00
148	IHT000021	-2.7006	-0.5521	-1.5845	5.5815e-01	4.1000e+00
149	IHT000022	92.6382	94.2007	93.4115	4.6144e-01	4.2051e+00
150	IHT000023	105.0556	107.2040	106.1358	4.8845e-01	4.2351e+00
151	IHT000024	70.2261	72.1792	71.1349	4.6073e-01	4.1613e+00
152	IHT000025	102.5954	104.9392	103.7234	5.0941e-01	4.2292e+00
153	IHT000026	104.9128	107.2566	106.0250	4.9508e-01	4.2349e+00
154	IHT000027	89.9715	91.9246	90.8364	4.4929e-01	4.1994e+00
155	IHT000028	90.4072	92.7509	91.4156	4.6893e-01	4.2007e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.7054	107.8538	106.7178	4.3248e-01	4.2366e+00
157	IHT000030	108.2482	110.2013	109.1171	4.4585e-01	4.2427e+00
158	IHT000031	106.1148	108.0679	106.9438	4.4131e-01	4.2372e+00
159	IHT000032	106.9637	108.9168	107.9482	4.4388e-01	4.2397e+00
160	IHT000033	106.9711	108.7290	107.9039	4.1483e-01	4.2396e+00
161	IHT000034	93.7650	95.3275	94.5663	4.1670e-01	4.2076e+00
162	IHT000035	123.4751	125.2329	124.4238	3.8447e-01	4.2846e+00
163	IHT000036	92.4842	94.0467	93.2694	3.6862e-01	4.2047e+00

Velocity 1 = 0.033400 (ft/sec)
 Velocity 2 = 0.017200 (ft/sec)
 Pressure Drop = 0.003200 (psi)
 Tsat in = 0.030884 (deg F) Tsat out = 0.003296 (deg F)
 Phi inner = 0.293304 (kBtu/hr-ft2) Phi outer = 0.181404 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0811	0.1063
1	TRF000002	0.0062	0.0081
2	TFM000001	0.0830	0.0946
3	TIN000001	0.0648	0.0739
4	TRV000001	0.2063	0.2333
5	TSR000001	0.1478	0.0889
6	EMPTY	0.0055	0.0143
7	TAO050136	0.1372	0.0624
8	TAO070136	0.0507	0.0219
9	TAO080136	0.0017	0.0007
10	TAO090136	0.0108	0.0044
11	TAO100136	0.0012	0.0005
12	TAO105136	0.1928	0.0747
13	EMPTY	0.0088	0.0213
14	TAO115136	0.0452	0.0165
15	EMPTY	0.5198	1.3235
16	TAO125136	0.0033	0.0012
17	EMPTY	0.0142	0.0435
18	EMPTY	0.0391	0.0942
19	TAO130048	0.0009	0.0003
20	TAO120224	0.1612	0.0600
21	EMPTY	0.0375	0.0952
22	TAC120312	0.1151	0.0402
23	TAO130312	0.0159	0.0057
24	EMPTY	0.0434	0.1097
25	TRT070000	0.2520	0.1084
26	TRT100000	0.0204	0.0071
27	TRT120000	0.0331	0.0114
28	TRT125000	0.0382	0.0131
29	EMPTY	0.0237	0.0591
30	EMPTY	0.0613	0.1547
31	TAF050136	0.1764	0.1210
32	TAF070136	0.0788	0.0480
33	TAF080136	0.1255	0.0732
34	TAF090136	0.3124	0.1731
35	TAF100136	0.4856	0.2515
36	TAF105136	0.0777	0.0388
37	TAF110136	0.2882	0.1361
38	TAF115136	0.0502	0.0234
39	TAF120136	0.0543	0.0246
40	TAF125136	0.0378	0.0167
41	TAF130136	0.0261	0.0113
42	TAF120048	0.1056	0.0449
43	TAF130048	0.0230	0.0094
44	TAF120224	0.3667	0.1701
45	TAF130224	0.2011	0.0888

#	Name	Abs Diff	%Diff
46	EMPTY	0.0883	0.2326
47	EMPTY	0.0674	0.1698
48	TAI130048	0.0486	0.0167
49	TAI130136	0.0077	0.0027
50	TAI130224	0.6120	0.2582
51	TAI130312	0.2339	0.0912
52	TRR130000	0.4107	0.2740
53	TSI000001	0.1022	0.2301
54	TSI000002	0.0331	0.0222
55	TSO000001	0.0032	0.0075
56	TSO000002	0.0829	0.1394
57	TAF020136	0.0072	0.0064
58	EMPTY	0.0207	0.0479
59	TAF130312	0.0915	0.0374
60	EMPTY	0.0018	0.0418
61	EMPTY	0.0014	0.0326
62	EMPTY	0.0001	0.0023
63	EMPTY	0.0003	0.0070
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0005	0.0249
66	EMPTY	0.0008	0.0398
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0018	0.0889
69	EMPTY	0.0008	0.0393
70	EMPTY	0.0008	0.0392
71	EMPTY	0.0008	0.0389
72	EMPTY	0.0005	0.0243
73	EMPTY	0.0003	0.0145
74	EMPTY	0.0012	0.0578
75	EMPTY	0.0005	0.0240
76	EMPTY	0.0004	0.0191
77	EMPTY	0.0027	0.1284
78	EMPTY	0.0016	0.0756
79	EMPTY	0.0023	0.1078
80	PAN020136	0.2840	1.5627
81	PAN050136	0.1035	0.3187
82	PAN070136	0.1313	0.5550
83	PAN080136	0.1584	2.4839
84	PAN090136	0.1867	1.4562
85	PAN100136	1.2076	11.8703
86	PAN105136	0.1367	2.9882
87	PAN110136	0.1223	2.6875
88	PAN115136	0.2515	5.3014
89	PAN120136	0.1589	3.0692
90	PAN125136	0.1562	2.9435
91	PAN130136	0.0794	1.7534
92	PAN120048	0.1145	1.0647
93	PAN130048	0.0722	0.7507
94	PAN120224	0.0969	0.9790
95	PAN130224	0.0139	0.1410
96	PAN120312	0.1748	1.7450
97	PAN130312	0.1448	1.5049
98	PAB000136	0.0211	0.0520
99	PAB100136	0.0052	0.0118
100	PAB125136	0.0024	0.0053

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0061	0.0151
102	PRV000001	0.1097	0.5622
103	PSR000001	0.0085	0.0186
104	PFM000001	0.0355	1.9575
105	PAN000136	0.0887	0.0662
106	PFM000002	0.0169	1.1003
107	EMPTY	0.0036	300.0000
108	EMPTY	2.8494	29.4838
109	EMPTY	0.0032	1066.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0013	325.0000
112	VPW000001	0.2008	0.1960
113	VPW000002	0.0486	0.0407
114	VPW000003	0.0103	0.0070
115	VPW000004	0.0033	0.0031
116	VPW000005	0.0761	0.0544
117	VPW000006	0.0006	0.0004
118	IPW000001	4.9702	0.9194
119	IPW000002	7.1632	0.5483
120	IPW000003	4.5085	0.3392
121	IPW000004	0.0271	0.0072
122	IPW000005	0.1347	0.0533
123	IPW000006	0.0353	0.0132
124	EMPTY	0.0038	20.1058
125	EMPTY	0.0023	17.5572
126	EMPTY	0.0042	28.0000
127	EMPTY	0.0006	3.6145
128	IHT000001	0.2238	0.1697
129	IHT000002	0.1393	0.1061
130	IHT000003	0.1620	0.1244
131	IHT000004	0.0853	0.0644
132	IHT000005	0.1184	0.0906
133	IHT000006	0.0678	0.0536
134	IHT000007	0.1033	0.0778
135	IHT000008	0.0580	0.0441
136	IHT000009	0.0404	0.0308
137	IHT000010	0.0273	0.0208
138	IHT000011	0.0658	0.0497
139	IHT000012	0.0185	0.0141
140	IHT000013	0.0223	0.0240
141	IHT000014	0.0385	0.0300
142	IHT000015	0.0607	0.0636
143	IHT000016	0.1045	0.1163
144	IHT000017	0.7650	0.7158
145	IHT000018	0.1557	0.1441
146	IHT000019	0.0817	0.0751
147	IHT000020	0.1157	0.1083
148	IHT000021	0.1652	11.6395
149	IHT000022	0.2189	0.2338
150	IHT000023	0.0839	0.0790
151	IHT000024	0.1029	0.1444
152	IHT000025	0.0868	0.0836
153	IHT000026	0.0676	0.0637
154	IHT000027	0.1859	0.2042
155	IHT000028	0.2963	0.3231

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2806	0.2622
157	IHT000030	0.2678	0.2448
158	IHT000031	0.2686	0.2505
159	IHT000032	0.2850	0.2633
160	IHT000033	0.3056	0.2824
161	IHT000034	0.1597	0.1686
162	IHT000035	0.2388	0.1916
163	IHT000036	0.1093	0.1170

Velocity 1 = 3.0471 (ft/sec) (+/- 18.4989 %)
Velocity 2 = 2.7796 (ft/sec) (+/- 8.6351 %)
Pressure drop = -4.7482 (psi)
Tsats in = 268.2654 (deg F) Tsats out = 274.7537 (deg F)
Phi inner = 99.0491 (kBtu/hr-ft2) (+/- 1.5740 %)
Phi outer = 100.5623 (kBtu/hr-ft2) (+/- 1.5511 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.1223	76.7593	76.5385	1.8179e-01	1.9000e+00
1	TRF000002	76.6218	77.0442	76.9471	1.1457e-01	1.9000e+00
2	TFM000001	85.7092	86.6534	86.1562	2.2993e-01	1.9002e+00
3	TIN000001	85.7778	86.4084	86.0657	1.5579e-01	1.9002e+00
4	TRV000001	87.0013	87.9432	87.5389	1.9260e-01	1.9002e+00
5	TSR000001	164.5970	172.3548	168.8332	1.7848e+00	1.9066e+00
6	EMPTY	37.9974	38.9168	38.4480	2.2249e-01	1.9010e+00
7	TAO050136	229.3736	230.2226	229.8960	1.8494e-01	1.9171e+00
8	TAO070136	243.0583	244.3774	243.5317	2.4479e-01	1.9202e+00
9	TAO080136	242.5210	243.4549	242.9231	2.1965e-01	1.9200e+00
10	TAO090136	257.1545	262.1612	259.4310	1.4689e+00	1.9240e+00
11	TAO100136	267.6117	269.2736	268.6996	3.0779e-01	1.9264e+00
12	TAO105136	270.3907	271.9610	271.2684	2.9696e-01	1.9271e+00
13	EMPTY	40.9819	41.4403	41.2341	1.3298e-01	1.9011e+00
14	TAO115136	286.1481	287.6173	287.0540	2.8312e-01	1.9315e+00
15	EMPTY	32.2314	43.0426	39.8911	2.6677e+00	1.9011e+00
16	TAO125136	290.6010	291.7830	291.2973	2.6275e-01	1.9327e+00
17	EMPTY	32.1574	33.0921	32.6669	1.9856e-01	1.9007e+00
18	EMPTY	41.4403	41.8984	41.5685	1.3220e-01	1.9012e+00
19	TAO130048	297.2411	298.6902	298.0833	3.1530e-01	1.9347e+00
20	TAO120224	281.5249	282.7166	282.2233	2.4570e-01	1.9301e+00
21	EMPTY	39.3761	39.8352	39.4817	1.2454e-01	1.9010e+00
22	TAO120312	299.9924	300.9923	300.4560	2.3176e-01	1.9354e+00
23	TAO130312	296.7645	298.0344	297.3145	2.6763e-01	1.9345e+00
24	EMPTY	39.1464	39.8352	39.5230	2.0618e-01	1.9011e+00
25	TRT070000	238.8155	243.1666	240.0247	9.4214e-01	1.9194e+00
26	TRT100000	298.8515	299.7584	299.3428	1.9486e-01	1.9351e+00
27	TRT120000	302.0530	302.5974	302.3234	1.5708e-01	1.9360e+00
28	TRT125000	294.2136	295.1183	294.6089	2.0543e-01	1.9337e+00
29	EMPTY	39.8352	40.2940	40.0922	9.9841e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6975	2.2239e-01	1.9011e+00
31	TAF050136	150.7278	153.3123	151.8547	5.2247e-01	1.9045e+00
32	TAF070136	170.4524	173.3849	172.2229	6.1701e-01	1.9070e+00
33	TAF080136	178.5021	181.7049	180.1195	7.0641e-01	1.9082e+00
34	TAF090136	188.0714	192.8250	190.7407	1.0782e+00	1.9098e+00
35	TAF100136	202.3244	205.5033	203.8492	7.4123e-01	1.9120e+00
36	TAF105136	210.7059	214.3995	212.2778	8.4699e-01	1.9136e+00
37	TAF110136	220.7398	228.1044	223.8789	2.2897e+00	1.9159e+00
38	TAF115136	226.8654	230.0763	228.0050	7.8143e-01	1.9167e+00
39	TAF120136	233.6614	235.8184	234.7733	4.9278e-01	1.9182e+00
40	TAF125136	242.3329	244.1962	243.1842	4.6057e-01	1.9201e+00
41	TAF130136	246.3529	248.2194	247.3329	4.7501e-01	1.9211e+00
42	TAF120048	250.6891	253.3177	251.9495	5.5352e-01	1.9222e+00
43	TAF130048	274.5648	276.2200	275.7215	3.1369e-01	1.9283e+00
44	TAF120224	227.5291	229.1360	228.2195	3.6892e-01	1.9168e+00
45	TAF130224	240.2525	243.4597	241.4851	8.6351e-01	1.9197e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.2273	38.0756	1.5131e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.7480	1.2172e-01	1.9011e+00
48	TAI130048	304.1061	305.3744	304.6948	2.7103e-01	1.9368e+00
49	TAI130136	290.7607	291.5798	291.2539	1.6561e-01	1.9327e+00
50	TAI130224	240.8368	241.8716	241.4898	2.5599e-01	1.9197e+00
51	TAI130312	266.8859	267.9966	267.4581	3.3369e-01	1.9261e+00
52	TRR130000	149.8254	151.9173	150.8597	5.0334e-01	1.9044e+00
53	TSI000001	44.7376	45.6049	45.1608	1.8240e-01	1.9004e+00
54	TSI000002	165.8264	166.8126	166.4437	2.1247e-01	1.9063e+00
55	TSO000001	43.0575	44.0395	43.5527	2.1628e-01	1.9005e+00
56	TSO000002	61.7270	62.6912	62.1920	2.4540e-01	1.9000e+00
57	TAF020136	112.6556	116.3759	114.3409	1.0032e+00	1.9013e+00
58	EMPTY	42.5851	43.5000	43.1432	2.3176e-01	1.9013e+00
59	TAF130312	275.6175	276.6282	276.1339	2.5443e-01	1.9284e+00
60	EMPTY	5.1221	5.1318	5.1256	2.9660e-03	0.0000e+00
61	EMPTY	5.0977	5.1074	5.1054	2.9742e-03	0.0000e+00
62	EMPTY	5.0830	5.0879	5.0864	2.2603e-03	0.0000e+00
63	EMPTY	5.0732	5.0781	5.0747	2.2603e-03	0.0000e+00
64	EMPTY	2.3438	2.3486	2.3443	1.6028e-03	0.0000e+00
65	EMPTY	2.3535	2.3535	2.3535	0.0000e+00	0.0000e+00
66	EMPTY	2.3535	2.3584	2.3583	6.9053e-04	0.0000e+00
67	EMPTY	2.3633	2.3682	2.3640	1.7115e-03	0.0000e+00
68	EMPTY	2.3584	2.3682	2.3677	1.7784e-03	0.0000e+00
69	EMPTY	2.3730	2.3828	2.3740	2.2058e-03	0.0000e+00
70	EMPTY	2.3779	2.3828	2.3784	1.4797e-03	0.0000e+00
71	EMPTY	2.3877	2.3926	2.3925	6.9053e-04	0.0000e+00
72	EMPTY	2.3926	2.3975	2.3959	2.3008e-03	0.0000e+00
73	EMPTY	2.4023	2.4072	2.4025	9.6655e-04	0.0000e+00
74	EMPTY	2.4072	2.4072	2.4072	0.0000e+00	0.0000e+00
75	EMPTY	2.4121	2.4170	2.4136	2.2603e-03	0.0000e+00
76	EMPTY	2.4170	2.4219	2.4176	1.6028e-03	0.0000e+00
77	EMPTY	2.4268	2.4268	2.4268	0.0000e+00	0.0000e+00
78	EMPTY	2.4365	2.4414	2.4398	2.3008e-03	0.0000e+00
79	EMPTY	2.4512	2.4561	2.4548	2.1635e-03	0.0000e+00
80	PAN020136	-19.1217	-15.7648	-17.8659	1.0821e+00	8.7115e-01
81	PAN050136	-34.7322	-30.9175	-32.9989	1.0480e+00	1.6820e+00
82	PAN070136	-25.7694	-19.8948	-23.7751	1.7563e+00	8.7203e-01
83	PAN080136	-10.9348	-4.7550	-6.9523	1.5870e+00	8.7017e-01
84	PAN090136	-13.3645	-9.0921	-12.8091	1.0783e+00	8.7059e-01
85	PAN100136	-13.0374	-8.7649	-10.8859	1.2079e+00	8.7043e-01
86	PAN105136	-6.8452	-2.4201	-4.9195	1.0633e+00	8.7009e-01
87	PAN110136	-6.5679	-1.4562	-4.1036	9.5779e-01	8.7006e-01
88	PAN115136	-6.1569	-3.1052	-4.9637	5.6250e-01	8.7009e-01
89	PAN120136	-5.9325	-3.2622	-4.4859	6.2610e-01	8.7007e-01
90	PAN125136	-4.8718	-2.8119	-4.2828	4.2883e-01	8.7007e-01
91	PAN130136	-2.7752	-2.2411	-2.4731	1.2518e-01	8.7002e-01
92	PAN120048	-10.7177	-8.2763	-9.8128	5.2656e-01	8.7035e-01
93	PAN130048	-6.8442	-6.3102	-6.5864	1.2978e-01	8.7016e-01
94	PAN120224	-10.4139	-8.7355	-9.6068	4.9446e-01	8.7033e-01
95	PAN130224	-7.3343	-6.1136	-6.8765	2.1798e-01	8.7017e-01
96	PAN120312	-9.9209	-5.0381	-9.0802	9.1844e-01	8.7030e-01
97	PAN130312	-6.9514	-6.2648	-6.6432	1.6382e-01	8.7016e-01
98	PAB000136	40.4528	40.7733	40.6057	6.3813e-02	5.8882e-01
99	PAB100136	44.1554	44.4301	44.3028	5.9427e-02	5.9048e-01
100	PAB125136	45.1343	45.3174	45.2286	4.4746e-02	5.9092e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0188	40.5071	40.2581	9.5388e-02	7.5672e-01
102	PRV000001	19.5111	19.6331	19.5819	6.0861e-02	7.5160e-01
103	PSR000001	45.0448	45.1669	45.1205	5.9853e-02	7.5844e-01
104	PFM000001	1.2642	1.5388	1.3759	6.9920e-02	5.0001e-01
105	PAN000136	-133.2883	-129.1685	-131.4573	9.9176e-01	4.9310e+00
106	PFM000002	1.1091	1.1762	1.1383	1.9120e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	-0.0023	3.5895e-03	0.0000e+00
108	EMPTY	-10.0000	-3.2373	-9.4818	1.3009e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0003	1.8216e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	101.9531	102.5391	102.3359	1.4205e-01	1.0164e+00
113	VPW000002	119.1369	119.5275	119.2931	9.6655e-02	1.0809e+00
114	VPW000003	147.4121	147.8027	147.5605	1.3416e-01	1.2000e+00
115	VPW000004	104.9730	105.5589	105.2269	1.5409e-01	1.0270e+00
116	VPW000005	139.7649	140.3508	139.9328	1.5288e-01	1.1666e+00
117	VPW000006	145.7294	146.5107	146.0263	1.7308e-01	1.1932e+00
118	IPW000001	562.5752	568.4323	565.5036	1.5403e+00	9.2503e+00
119	IPW000002	1277.0310	1286.7874	1282.2605	2.2453e+00	1.2970e+01
120	IPW000003	1298.3625	1306.1625	1303.4324	1.8894e+00	1.3101e+01
121	IPW000004	382.7280	384.6811	383.7338	3.9961e-01	3.6318e+00
122	IPW000005	252.1908	253.6555	252.8938	3.5782e-01	2.8269e+00
123	IPW000006	263.2681	265.2212	264.1765	6.1613e-01	2.8906e+00
124	EMPTY	-0.0293	-0.0146	-0.0199	4.5034e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	3.0067e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0163	3.8975e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.2133e-03	0.0000e+00
128	IHT000001	130.7580	132.5158	131.7814	4.9530e-01	4.3066e+00
129	IHT000002	130.3185	132.2716	131.2794	4.5135e-01	4.3050e+00
130	IHT000003	129.3870	131.3401	130.3167	4.6448e-01	4.3021e+00
131	IHT000004	131.7608	133.7139	132.5264	4.6828e-01	4.3089e+00
132	IHT000005	129.7101	131.8585	130.7256	5.0992e-01	4.3034e+00
133	IHT000006	125.6348	127.3926	126.4160	4.6522e-01	4.2905e+00
134	IHT000007	132.0425	133.8003	132.8081	4.5308e-01	4.3097e+00
135	IHT000008	130.8744	132.6322	131.5776	4.1196e-01	4.3060e+00
136	IHT000009	130.2096	132.3580	131.1236	4.5411e-01	4.3046e+00
137	IHT000010	130.5852	132.7336	131.3117	4.6361e-01	4.3051e+00
138	IHT000011	131.0584	133.4022	131.9608	4.8791e-01	4.3071e+00
139	IHT000012	130.2772	132.6209	131.0428	4.8462e-01	4.3043e+00
140	IHT000013	91.7217	94.2608	92.7490	4.5302e-01	4.2036e+00
141	IHT000014	127.6517	129.4095	128.4252	4.4810e-01	4.2964e+00
142	IHT000015	94.1707	96.3191	95.3269	4.2469e-01	4.2094e+00
143	IHT000016	88.6907	90.4485	89.6164	4.0781e-01	4.1968e+00
144	IHT000017	104.5185	107.0575	105.7373	6.1201e-01	4.2342e+00
145	IHT000018	106.3026	108.6463	107.8143	4.7484e-01	4.2394e+00
146	IHT000019	107.4557	110.3854	108.4790	6.2085e-01	4.2411e+00
147	IHT000020	105.4312	108.1656	106.4741	6.0825e-01	4.2360e+00
148	IHT000021	-2.8959	0.6197	-1.6303	7.9922e-01	4.1000e+00
149	IHT000022	92.2476	94.7866	93.2671	6.1039e-01	4.2047e+00
150	IHT000023	105.0556	107.3993	105.9892	5.5143e-01	4.2348e+00
151	IHT000024	70.0308	72.3745	71.0308	5.2740e-01	4.1611e+00
152	IHT000025	102.5954	104.9392	103.5954	4.9700e-01	4.2289e+00
153	IHT000026	104.9128	106.8660	105.8582	4.4356e-01	4.2345e+00
154	IHT000027	89.5808	91.5340	90.7801	4.5337e-01	4.1993e+00
155	IHT000028	90.2118	92.7509	91.3564	5.5525e-01	4.2005e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.5101	108.2444	106.7132	5.8309e-01	4.2366e+00
157	IHT000030	107.8576	110.3966	109.1232	5.5976e-01	4.2427e+00
158	IHT000031	105.7242	108.2632	107.0327	5.4140e-01	4.2374e+00
159	IHT000032	106.7683	109.5027	108.0184	5.6634e-01	4.2399e+00
160	IHT000033	106.7758	109.5102	108.0024	5.6226e-01	4.2399e+00
161	IHT000034	93.5697	96.3041	94.6713	5.1260e-01	4.2079e+00
162	IHT000035	123.2798	126.4048	124.6157	5.1200e-01	4.2852e+00
163	IHT000036	92.2889	94.8280	93.3319	4.8905e-01	4.2049e+00

Velocity 1 = 3.0456 (ft/sec) (+/- 18.5179 %)
Velocity 2 = 2.8256 (ft/sec) (+/- 8.3942 %)
Pressure drop = -4.7722 (psi)
Tsats in = 268.2150 (deg F) Tsats out = 274.6885 (deg F)
Phi inner = 99.2094 (kBtu/hr-ft2) (+/- 1.5736 %)
Phi outer = 100.5242 (kBtu/hr-ft2) (+/- 1.5513 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	76.3346	76.7593	76.4950	1.4717e-01	1.9000e+00
1	TRF0000002	76.6218	77.0442	76.9192	1.2131e-01	1.9000e+00
2	TFM0000001	85.7092	86.5486	86.1353	1.6227e-01	1.9002e+00
3	TIN0000001	85.8827	86.4084	86.0951	1.2036e-01	1.9002e+00
4	TRV0000001	87.1055	87.9423	87.5028	1.7867e-01	1.9002e+00
5	TSR0000001	166.9566	174.1153	172.1048	1.8456e+00	1.9070e+00
6	EMPTY	37.9974	38.9168	38.4056	2.4044e-01	1.9010e+00
7	TAO050136	229.3736	230.2226	229.7912	2.0275e-01	1.9171e+00
8	TAO070136	242.9647	243.8129	243.3740	2.4053e-01	1.9201e+00
9	TAO080136	242.2419	243.1748	242.7141	2.0655e-01	1.9200e+00
10	TAO090136	256.9687	261.8831	259.0799	1.4988e+00	1.9239e+00
11	TAO100136	267.7964	268.8126	268.2734	2.5029e-01	1.9263e+00
12	TAO105136	270.6681	272.1457	271.2976	2.8509e-01	1.9271e+00
13	EMPTY	40.9819	41.4403	41.2579	1.4777e-01	1.9011e+00
14	TAO115136	286.3323	287.7093	287.0069	3.0136e-01	1.9315e+00
15	EMPTY	32.2314	42.8139	39.6538	2.5567e+00	1.9011e+00
16	TAO125136	290.7826	291.6915	291.3262	2.0118e-01	1.9327e+00
17	EMPTY	32.1574	33.0921	32.6391	2.1013e-01	1.9007e+00
18	EMPTY	41.4403	41.8984	41.5992	1.2550e-01	1.9012e+00
19	TAO130048	297.2415	298.7804	298.1169	3.5075e-01	1.9347e+00
20	TAO120224	281.6160	282.7166	282.1552	2.4451e-01	1.9301e+00
21	EMPTY	39.3761	39.8352	39.5307	1.2737e-01	1.9011e+00
22	TAO120312	299.9924	300.9923	300.4359	2.3516e-01	1.9354e+00
23	TAO130312	296.6737	298.1251	297.2053	2.8144e-01	1.9345e+00
24	EMPTY	39.1464	39.8352	39.5682	1.6466e-01	1.9011e+00
25	TRT070000	238.5308	241.5591	239.9570	7.4223e-01	1.9194e+00
26	TRT100000	298.7604	299.6678	299.2769	1.8992e-01	1.9351e+00
27	TRT120000	301.8722	302.5974	302.2827	1.6356e-01	1.9360e+00
28	TRT125000	294.2111	294.9373	294.5705	1.9314e-01	1.9337e+00
29	EMPTY	40.0646	40.2940	40.1302	1.0471e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7040	1.8741e-01	1.9011e+00
31	TAF050136	150.6267	153.1128	151.8309	5.1638e-01	1.9045e+00
32	TAF070136	171.0399	173.5820	172.2807	6.8642e-01	1.9070e+00
33	TAF080136	178.7939	181.6069	180.1284	6.0175e-01	1.9082e+00
34	TAF090136	188.9454	192.8247	190.5219	1.0697e+00	1.9098e+00
35	TAF100136	202.7100	206.3695	203.9235	7.9835e-01	1.9120e+00
36	TAF105136	209.8507	213.9275	211.7661	7.5660e-01	1.9135e+00
37	TAF110136	220.3618	227.2558	223.5748	2.1618e+00	1.9158e+00
38	TAF115136	226.3933	229.4154	227.8257	6.5669e-01	1.9167e+00
39	TAF120136	233.3784	235.6294	234.4437	5.1616e-01	1.9181e+00
40	TAF125136	241.6798	244.1942	242.9904	5.1139e-01	1.9201e+00
41	TAF130136	245.6994	248.3121	247.0958	5.1693e-01	1.9210e+00
42	TAF120048	250.3131	253.0365	251.8240	5.4781e-01	1.9221e+00
43	TAF130048	275.0242	276.2200	275.7431	2.5925e-01	1.9283e+00
44	TAF120224	227.4345	229.3253	228.2952	4.4725e-01	1.9168e+00
45	TAF130224	239.9694	243.1772	241.3353	7.6822e-01	1.9197e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0349	2.1171e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7977	1.4322e-01	1.9011e+00
48	TAI130048	304.3776	305.4651	304.8824	2.2573e-01	1.9368e+00
49	TAI130136	291.1241	291.5798	291.3490	1.2341e-01	1.9327e+00
50	TAI130224	241.4014	242.9064	242.0483	4.4134e-01	1.9198e+00
51	TAI130312	267.5339	268.7363	268.1022	3.2857e-01	1.9263e+00
52	TRR130000	151.0204	153.2092	151.9651	4.6890e-01	1.9045e+00
53	TSI000001	44.9543	45.7138	45.3063	2.0226e-01	1.9004e+00
54	TSI000002	165.6293	166.5172	166.1385	2.1705e-01	1.9062e+00
55	TSO000001	43.1670	44.0395	43.6165	1.8184e-01	1.9005e+00
56	TSO000002	61.8339	62.9052	62.3063	2.3439e-01	1.9000e+00
57	TAF020136	112.8630	117.2011	114.3522	1.0483e+00	1.9013e+00
58	EMPTY	42.5851	43.5000	43.1219	2.7834e-01	1.9013e+00
59	TAF130312	275.6175	276.6277	276.0956	2.2184e-01	1.9284e+00
60	EMPTY	5.1221	5.1318	5.1254	2.7091e-03	0.0000e+00
61	EMPTY	5.1025	5.1074	5.1045	2.4247e-03	0.0000e+00
62	EMPTY	5.0830	5.0928	5.0870	2.5748e-03	0.0000e+00
63	EMPTY	5.0732	5.0781	5.0749	2.3483e-03	0.0000e+00
64	EMPTY	2.3438	2.3486	2.3440	1.1827e-03	0.0000e+00
65	EMPTY	2.3486	2.3535	2.3534	6.9754e-04	0.0000e+00
66	EMPTY	2.3535	2.3584	2.3583	6.9754e-04	0.0000e+00
67	EMPTY	2.3633	2.3682	2.3635	9.7615e-04	0.0000e+00
68	EMPTY	2.3633	2.3682	2.3679	1.1827e-03	0.0000e+00
69	EMPTY	2.3730	2.3779	2.3733	1.1827e-03	0.0000e+00
70	EMPTY	2.3779	2.3828	2.3781	9.7615e-04	0.0000e+00
71	EMPTY	2.3877	2.3926	2.3924	9.7615e-04	0.0000e+00
72	EMPTY	2.3926	2.3975	2.3940	2.2287e-03	0.0000e+00
73	EMPTY	2.4023	2.4023	2.4023	0.0000e+00	0.0000e+00
74	EMPTY	2.4072	2.4072	2.4072	0.0000e+00	0.0000e+00
75	EMPTY	2.4121	2.4170	2.4136	2.2737e-03	0.0000e+00
76	EMPTY	2.4170	2.4219	2.4174	1.3508e-03	0.0000e+00
77	EMPTY	2.4268	2.4316	2.4270	9.7615e-04	0.0000e+00
78	EMPTY	2.4365	2.4414	2.4396	2.3783e-03	0.0000e+00
79	EMPTY	2.4512	2.4561	2.4552	1.9103e-03	0.0000e+00
80	PAN020136	-19.1217	-15.3070	-17.8745	1.1999e+00	8.7115e-01
81	PAN050136	-34.8848	-30.6124	-32.9448	1.1440e+00	1.6820e+00
82	PAN070136	-25.3879	-19.6659	-23.8527	1.3959e+00	8.7204e-01
83	PAN080136	-10.8585	-5.5179	-6.8788	1.3620e+00	8.7017e-01
84	PAN090136	-13.2882	-9.3210	-12.9426	8.0488e-01	8.7060e-01
85	PAN100136	-12.9611	-8.0782	-10.4340	1.1798e+00	8.7039e-01
86	PAN105136	-6.6926	-2.7253	-4.8927	8.4369e-01	8.7009e-01
87	PAN110136	-6.9493	-0.9221	-4.4425	9.3674e-01	8.7007e-01
88	PAN115136	-6.6910	-2.9526	-5.0312	6.7192e-01	8.7009e-01
89	PAN120136	-5.0932	-2.8807	-4.3614	4.3881e-01	8.7007e-01
90	PAN125136	-4.7955	-3.1170	-4.2692	4.2543e-01	8.7007e-01
91	PAN130136	-2.8515	-2.1648	-2.4685	1.3168e-01	8.7002e-01
92	PAN120048	-10.6414	-8.8866	-9.9859	4.0518e-01	8.7036e-01
93	PAN130048	-6.9205	-6.2339	-6.6013	1.5703e-01	8.7016e-01
94	PAN120224	-10.4139	-7.8962	-9.4252	5.9321e-01	8.7032e-01
95	PAN130224	-7.4106	-6.1136	-6.7893	3.0597e-01	8.7017e-01
96	PAN120312	-9.9209	-7.0981	-9.2763	5.3498e-01	8.7031e-01
97	PAN130312	-7.0277	-6.2648	-6.6198	1.4819e-01	8.7016e-01
98	PAB000136	40.3155	40.7275	40.5715	8.1416e-02	5.8880e-01
99	PAB100136	44.2012	44.3843	44.2601	5.1180e-02	5.9046e-01
100	PAB125136	45.0885	45.2717	45.1801	4.1788e-02	5.9090e-01

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910

301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.1409	40.6292	40.3750	1.2908e-01	7.5676e-01
102	PRV0000001	19.5111	19.6331	19.6132	4.5586e-02	7.5160e-01
103	PSR0000001	45.0448	45.2890	45.0822	6.2064e-02	7.5842e-01
104	PFM0000001	1.2642	1.5388	1.3744	7.4705e-02	5.0001e-01
105	PAN000136	-136.0349	-129.1685	-132.1206	1.3250e+00	4.9311e+00
106	PFM0000002	1.1426	1.2098	1.1776	1.5255e-02	2.0002e-01
107	EMPTY	-0.0049	-0.0049	-0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	3.4912	-9.5188	2.0088e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0030	2.4037e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0021	2.4414e-03	0.0000e+00
112	VPW0000001	101.9531	102.7344	102.4075	2.4377e-01	1.0167e+00
113	VPW0000002	119.1369	119.7228	119.3641	1.0044e-01	1.0812e+00
114	VPW0000003	147.2168	147.8027	147.5436	1.2215e-01	1.1999e+00
115	VPW0000004	104.9730	105.3636	105.2321	1.2849e-01	1.0270e+00
116	VPW0000005	139.9602	140.3508	140.0598	1.0640e-01	1.1672e+00
117	VPW0000006	146.1200	146.7060	146.3593	1.8385e-01	1.1947e+00
118	IPW0000001	560.6229	568.4323	565.0853	2.7029e+00	9.2487e+00
119	IPW0000002	1278.9823	1282.8848	1280.9730	1.2900e+00	1.2962e+01
120	IPW0000003	1300.3125	1308.1125	1304.5701	1.5758e+00	1.3108e+01
121	IPW0000004	382.2397	383.7046	382.8973	3.6690e-01	3.6263e+00
122	IPW0000005	252.1908	253.6555	252.9679	3.2931e-01	2.8273e+00
123	IPW0000006	264.7329	266.1978	265.1317	3.1000e-01	2.8960e+00
124	EMPTY	-0.0293	-0.0146	-0.0221	3.4673e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0161	2.4826e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0184	3.0339e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0175	3.2934e-03	0.0000e+00
128	IHT0000001	130.7580	132.9064	131.6269	5.0281e-01	4.3061e+00
129	IHT0000002	130.1232	132.2716	131.0918	4.5624e-01	4.3045e+00
130	IHT0000003	128.9964	131.1448	130.0049	4.5865e-01	4.3012e+00
131	IHT0000004	131.5655	135.6671	132.2989	6.2471e-01	4.3082e+00
132	IHT0000005	129.9054	131.6632	130.5630	4.1565e-01	4.3029e+00
133	IHT0000006	125.4394	127.0019	126.2327	3.6845e-01	4.2899e+00
134	IHT0000007	131.8472	133.4097	132.6683	3.9463e-01	4.3093e+00
135	IHT0000008	130.4838	132.2416	131.3847	4.1204e-01	4.3054e+00
136	IHT0000009	130.0143	132.3580	131.0187	4.4216e-01	4.3043e+00
137	IHT0000010	130.5852	132.5383	131.4762	6.0197e-01	4.3054e+00
138	IHT0000011	131.2538	133.4022	132.2941	5.9051e-01	4.3082e+00
139	IHT0000012	130.2772	132.4256	131.3614	5.6812e-01	4.3053e+00
140	IHT0000013	91.9171	94.2608	92.8298	4.8401e-01	4.2038e+00
141	IHT0000014	127.6517	129.8002	128.5208	4.7685e-01	4.2967e+00
142	IHT0000015	94.5613	96.5144	95.3585	4.7814e-01	4.2094e+00
143	IHT0000016	88.8860	91.2297	89.7430	4.9445e-01	4.1971e+00
144	IHT0000017	104.5185	108.0341	106.1846	8.7628e-01	4.2353e+00
145	IHT0000018	106.6932	109.2323	108.1800	6.1093e-01	4.2403e+00
146	IHT0000019	107.8463	109.9947	108.7032	4.8142e-01	4.2417e+00
147	IHT0000020	105.8218	108.1656	106.7067	5.0603e-01	4.2366e+00
148	IHT0000021	-2.7006	0.0338	-1.5606	6.0640e-01	4.1000e+00
149	IHT0000022	92.8335	94.9820	93.4792	4.8041e-01	4.2052e+00
150	IHT0000023	105.2509	107.3993	106.1876	5.0268e-01	4.2353e+00
151	IHT0000024	70.2261	72.1792	71.2106	4.6487e-01	4.1614e+00
152	IHT0000025	102.9860	104.9392	103.7792	5.1119e-01	4.2293e+00
153	IHT0000026	105.3035	107.2566	106.0768	4.8331e-01	4.2350e+00
154	IHT0000027	90.1668	91.7293	90.9401	4.1806e-01	4.1996e+00
155	IHT0000028	90.7978	92.7509	91.5751	5.2209e-01	4.2010e+00

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# Name	Min	Max	Ave	SD	Uncert
156 IHT000029	105.7054	108.2444	106.9131	5.6336e-01	4.2371e+00
157 IHT000030	108.0529	110.3966	109.2845	5.2469e-01	4.2431e+00
158 IHT000031	106.1148	108.2632	107.1591	4.7933e-01	4.2377e+00
159 IHT000032	106.9637	109.5027	108.1435	4.8001e-01	4.2402e+00
160 IHT000033	106.9711	109.3149	108.1072	4.6948e-01	4.2401e+00
161 IHT000034	93.7650	95.7182	94.6819	4.1086e-01	4.2079e+00
162 IHT000035	123.4751	125.8188	124.6948	4.7597e-01	4.2854e+00
163 IHT000036	92.0936	94.6326	93.4169	4.6539e-01	4.2051e+00

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Velocity 1 = 0.001500 (ft/sec)

Velocity 2 = 0.046000 (ft/sec)

Pressure Drop = 0.024000 (psi)

Tsat in = 0.050415 (deg F) Tsat out = 0.065186 (deg F)

Phi inner = 0.160294 (kBtu/hr-ft2) Phi outer = 0.038101 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0435	0.0568
1	TRF000002	0.0279	0.0363
2	TFM000001	0.0209	0.0243
3	TIN000001	0.0294	0.0342
4	TRV000001	0.0361	0.0412
5	TSR000001	3.2716	1.9378
6	EMPTY	0.0424	0.1103
7	TAO050136	0.1048	0.0456
8	TAO070136	0.1577	0.0648
9	TAO080136	0.2090	0.0860
10	TAO090136	0.3511	0.1353
11	TAO100136	0.4262	0.1586
12	TAO105136	0.0292	0.0108
13	EMPTY	0.0238	0.0577
14	TAO115136	0.0471	0.0164
15	EMPTY	0.2373	0.5949
16	TAO125136	0.0289	0.0099
17	EMPTY	0.0278	0.0851
18	EMPTY	0.0307	0.0739
19	TAO130048	0.0336	0.0113
20	TAO120224	0.0681	0.0241
21	EMPTY	0.0490	0.1241
22	TAO120312	0.0201	0.0067
23	TAO130312	0.1092	0.0367
24	EMPTY	0.0452	0.1144
25	TRT070000	0.0677	0.0282
26	TRT100000	0.0659	0.0220
27	TRT120000	0.0407	0.0135
28	TRT125000	0.0384	0.0130
29	EMPTY	0.0380	0.0948
30	EMPTY	0.0065	0.0164
31	TAF050136	0.0238	0.0157
32	TAF070136	0.0578	0.0336
33	TAF080136	0.0089	0.0049
34	TAF090136	0.2188	0.1147
35	TAF100136	0.0743	0.0364
36	TAF105136	0.5117	0.2411
37	TAF110136	0.3041	0.1358
38	TAF115136	0.1793	0.0786
39	TAF120136	0.3296	0.1404
40	TAF125136	0.1938	0.0797
41	TAF130136	0.2371	0.0959
42	TAF120048	0.1255	0.0498
43	TAF130048	0.0216	0.0078
44	TAF120224	0.0757	0.0332
45	TAF130224	0.1498	0.0620

#	Name	Abs Diff	%Diff
46	EMPTY	0.0407	0.1069
47	EMPTY	0.0497	0.1250
48	TAI130048	0.1876	0.0616
49	TAI130136	0.0951	0.0326
50	TAI130224	0.5585	0.2313
51	TAI130312	0.6441	0.2408
52	TRR130000	1.1054	0.7327
53	TSI000001	0.1455	0.3222
54	TSI000002	0.3052	0.1834
55	TSO000001	0.0638	0.1465
56	TSO000002	0.1143	0.1838
57	TAF020136	0.0113	0.0099
58	EMPTY	0.0213	0.0494
59	TAF130312	0.0383	0.0139
60	EMPTY	0.0002	0.0039
61	EMPTY	0.0009	0.0176
62	EMPTY	0.0006	0.0118
63	EMPTY	0.0002	0.0039
64	EMPTY	0.0003	0.0128
65	EMPTY	0.0001	0.0042
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0005	0.0211
68	EMPTY	0.0002	0.0084
69	EMPTY	0.0007	0.0295
70	EMPTY	0.0003	0.0126
71	EMPTY	0.0001	0.0042
72	EMPTY	0.0019	0.0793
73	EMPTY	0.0002	0.0083
74	EMPTY	0.0000	0.0000
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0002	0.0083
77	EMPTY	0.0002	0.0082
78	EMPTY	0.0002	0.0082
79	EMPTY	0.0004	0.0163
80	PAN020136	0.0086	0.0481
81	PAN050136	0.0541	0.1639
82	PAN070136	0.0776	0.3264
83	PAN080136	0.0735	1.0572
84	PAN090136	0.1335	1.0422
85	PAN100136	0.4519	4.1512
86	PAN105136	0.0268	0.5448
87	PAN110136	0.3389	8.2586
88	PAN115136	0.0675	1.3599
89	PAN120136	0.1245	2.7754
90	PAN125136	0.0136	0.3176
91	PAN130136	0.0046	0.1860
92	PAN120048	0.1731	1.7640
93	PAN130048	0.0149	0.2262
94	PAN120224	0.1816	1.8903
95	PAN130224	0.0872	1.2681
96	PAN120312	0.1961	2.1596
97	PAN130312	0.0234	0.3522
98	PAB000136	0.0342	0.0842
99	PAB100136	0.0427	0.0964
100	PAB125136	0.0485	0.1072

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1169	0.2904
102	PRV000001	0.0313	0.1598
103	PSR000001	0.0383	0.0849
104	PFM000001	0.0015	0.1090
105	PAN000136	0.6633	0.5046
106	PFM000002	0.0393	3.4525
107	EMPTY	0.0026	113.0435
108	EMPTY	0.0370	0.3902
109	EMPTY	0.0033	1099.9999
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0019	950.0000
112	VPW000001	0.0716	0.0700
113	VPW000002	0.0710	0.0595
114	VPW000003	0.0169	0.0115
115	VPW000004	0.0052	0.0049
116	VPW000005	0.1270	0.0908
117	VPW000006	0.3330	0.2280
118	IPW000001	0.4183	0.0740
119	IPW000002	1.2875	0.1004
120	IPW000003	1.1377	0.0873
121	IPW000004	0.8365	0.2180
122	IPW000005	0.0741	0.0293
123	IPW000006	0.9552	0.3616
124	EMPTY	0.0022	11.0553
125	EMPTY	0.0025	18.3824
126	EMPTY	0.0021	12.8834
127	EMPTY	0.0012	7.3620
128	IHT000001	0.1545	0.1172
129	IHT000002	0.1876	0.1429
130	IHT000003	0.3118	0.2393
131	IHT000004	0.2275	0.1717
132	IHT000005	0.1626	0.1244
133	IHT000006	0.1833	0.1450
134	IHT000007	0.1398	0.1053
135	IHT000008	0.1929	0.1466
136	IHT000009	0.1049	0.0800
137	IHT000010	0.0945	0.0720
138	IHT000011	0.3333	0.2526
139	IHT000012	0.3186	0.2431
140	IHT000013	0.0808	0.0871
141	IHT000014	0.0956	0.0744
142	IHT000015	0.0316	0.0332
143	IHT000016	0.1266	0.1413
144	IHT000017	0.4473	0.4230
145	IHT000018	0.3657	0.3392
146	IHT000019	0.2242	0.2067
147	IHT000020	0.2326	0.2185
148	IHT000021	0.0697	4.2753
149	IHT000022	0.2121	0.2274
150	IHT000023	0.1984	0.1872
151	IHT000024	0.1798	0.2531
152	IHT000025	0.1838	0.1774
153	IHT000026	0.2186	0.2065
154	IHT000027	0.1600	0.1763
155	IHT000028	0.2187	0.2394

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#	Name	Abs Diff	%Diff
156	IHT0000029	0.1999	0.1873
157	IHT0000030	0.1613	0.1478
158	IHT0000031	0.1264	0.1181
159	IHT0000032	0.1251	0.1158
160	IHT0000033	0.1048	0.0970
161	IHT0000034	0.0106	0.0112
162	IHT0000035	0.0791	0.0635
163	IHT0000036	0.0850	0.0911

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sum1

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Velocity 1 = 2.8241 (ft/sec) (+/- 21.5350 %)
Velocity 2 = 2.4705 (ft/sec) (+/- 10.6706 %)
Pressure drop = -3.9331 (psi)
Tsats in = 268.3044 (deg F) Tsats out = 273.8522 (deg F)
Phi inner = 100.5649 (kBtu/hr-ft2) (+/- 1.5702 %)
Phi outer = 100.3819 (kBtu/hr-ft2) (+/- 1.5537 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.3346	76.9715	76.6191	1.6946e-01	1.9000e+00
1	TRF000002	76.8330	77.2554	77.0738	1.3498e-01	1.9000e+00
2	TFM000001	85.3952	86.4434	85.9531	2.3163e-01	1.9002e+00
3	TIN000001	85.5669	86.1982	85.9163	1.6100e-01	1.9002e+00
4	TRV000001	87.3152	88.1516	87.7086	1.9555e-01	1.9002e+00
5	TSR000001	174.1163	178.6077	176.7222	1.1346e+00	1.9077e+00
6	EMPTY	37.9974	38.9168	38.3147	2.2697e-01	1.9010e+00
7	TAO050136	240.0728	240.8229	240.4220	1.6940e-01	1.9195e+00
8	TAO070136	256.0185	257.0461	256.5194	2.4233e-01	1.9233e+00
9	TAO080136	261.1694	262.1864	261.7166	2.4957e-01	1.9246e+00
10	TAO090136	259.5666	261.3282	260.6534	4.0858e-01	1.9243e+00
11	TAO100136	281.8695	282.6944	282.2798	1.9876e-01	1.9301e+00
12	TAO105136	280.1593	281.8126	281.1331	3.0665e-01	1.9298e+00
13	EMPTY	40.9819	41.4403	41.2432	1.3896e-01	1.9011e+00
14	TAO115136	279.1517	280.3503	279.7159	3.1861e-01	1.9294e+00
15	EMPTY	31.3055	42.5851	38.2681	3.1793e+00	1.9010e+00
16	TAO125136	285.4179	288.3304	286.9324	6.8972e-01	1.9314e+00
17	EMPTY	32.3911	33.0921	32.6762	1.8459e-01	1.9007e+00
18	EMPTY	41.4403	41.6693	41.5365	1.1421e-01	1.9012e+00
19	TAO130048	293.1631	294.5249	293.7592	2.7688e-01	1.9334e+00
20	TAO120224	279.6894	283.8161	281.8619	7.5606e-01	1.9300e+00
21	EMPTY	39.3761	39.8352	39.5138	1.3914e-01	1.9011e+00
22	TAO120312	301.8099	303.4443	302.4747	3.2631e-01	1.9361e+00
23	TAO130312	292.3154	293.4975	292.8174	2.8937e-01	1.9332e+00
24	EMPTY	39.1464	39.8352	39.5506	2.0512e-01	1.9011e+00
25	TRT070000	242.6937	260.3679	251.5684	5.4238e+00	1.9221e+00
26	TRT100000	302.9270	303.6515	303.2781	1.7118e-01	1.9363e+00
27	TRT120000	302.0537	303.1409	302.5428	2.2424e-01	1.9361e+00
28	TRT125000	291.0432	292.1322	291.5546	2.7343e-01	1.9328e+00
29	EMPTY	39.8352	40.2940	40.0555	9.2244e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6883	1.7816e-01	1.9011e+00
31	TAF050136	155.7926	159.5546	157.2505	7.2108e-01	1.9051e+00
32	TAF070136	178.4551	184.4741	181.0978	1.4334e+00	1.9083e+00
33	TAF080136	189.1439	195.2040	192.5704	1.6468e+00	1.9101e+00
34	TAF090136	199.1059	202.2846	200.2969	6.6993e-01	1.9114e+00
35	TAF100136	213.1826	215.2875	214.0900	4.8602e-01	1.9139e+00
36	TAF105136	220.0663	223.2682	221.8361	6.9628e-01	1.9155e+00
37	TAF110136	229.3273	234.5882	230.6253	1.1330e+00	1.9173e+00
38	TAF115136	240.2289	249.3866	244.1102	2.0753e+00	1.9203e+00
39	TAF120136	250.6455	266.5366	258.4250	3.6121e+00	1.9238e+00
40	TAF125136	258.9215	272.7899	266.4445	3.5941e+00	1.9258e+00
41	TAF130136	260.2931	273.2011	268.4557	3.0463e+00	1.9264e+00
42	TAF120048	274.9521	276.6187	275.5853	2.8330e-01	1.9283e+00
43	TAF130048	274.2885	275.2086	274.7044	1.8713e-01	1.9280e+00
44	TAF120224	249.5007	270.3546	262.3217	4.9295e+00	1.9248e+00
45	TAF130224	259.3975	273.1516	268.6434	3.8033e+00	1.9264e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0066	2.1769e-01	1.9010e+00
47	EMPTY	39.3761	40.2940	39.8948	2.2143e-01	1.9011e+00
48	TAI130048	299.3876	300.6595	300.0055	3.0092e-01	1.9353e+00
49	TAI130136	288.6700	290.7623	289.7727	5.1974e-01	1.9323e+00
50	TAI130224	243.1883	245.2546	244.2327	5.0041e-01	1.9203e+00
51	TAI130312	264.7563	266.4233	265.4789	3.8847e-01	1.9256e+00
52	TRR130000	145.3350	148.2321	146.6864	6.9882e-01	1.9040e+00
53	TSI000001	44.5208	45.1729	44.8339	1.7363e-01	1.9004e+00
54	TSI000002	169.8613	171.3351	170.5806	2.5989e-01	1.9068e+00
55	TSO000001	42.8382	43.6024	43.2307	1.7084e-01	1.9005e+00
56	TSO000002	61.9412	62.9052	62.4511	2.3460e-01	1.9000e+00
57	TAF020136	115.5491	119.0546	116.7213	8.0536e-01	1.9015e+00
58	EMPTY	42.8139	43.5000	43.1752	2.6577e-01	1.9013e+00
59	TAF130312	274.2402	275.6190	274.8688	3.1250e-01	1.9281e+00
60	EMPTY	5.0830	5.0977	5.0894	3.3087e-03	0.0000e+00
61	EMPTY	5.0635	5.0732	5.0693	3.2718e-03	0.0000e+00
62	EMPTY	5.0439	5.0586	5.0516	3.1444e-03	0.0000e+00
63	EMPTY	5.0342	5.0439	5.0410	3.2718e-03	0.0000e+00
64	EMPTY	2.3291	2.3340	2.3312	2.4344e-03	0.0000e+00
65	EMPTY	2.3389	2.3438	2.3396	1.8082e-03	0.0000e+00
66	EMPTY	2.3438	2.3486	2.3442	1.4797e-03	0.0000e+00
67	EMPTY	2.3486	2.3535	2.3509	2.4583e-03	0.0000e+00
68	EMPTY	2.3535	2.3535	2.3535	0.0000e+00	0.0000e+00
69	EMPTY	2.3584	2.3633	2.3618	2.2603e-03	0.0000e+00
70	EMPTY	2.3633	2.3682	2.3671	2.0432e-03	0.0000e+00
71	EMPTY	2.3779	2.3828	2.3793	2.2146e-03	0.0000e+00
72	EMPTY	2.3828	2.3828	2.3828	0.0000e+00	0.0000e+00
73	EMPTY	2.3877	2.3975	2.3913	2.3778e-03	0.0000e+00
74	EMPTY	2.3926	2.3975	2.3969	1.6028e-03	0.0000e+00
75	EMPTY	2.4023	2.4023	2.4023	0.0000e+00	0.0000e+00
76	EMPTY	2.4023	2.4072	2.4070	9.6655e-04	0.0000e+00
77	EMPTY	2.4170	2.4170	2.4170	0.0000e+00	0.0000e+00
78	EMPTY	2.4268	2.4316	2.4270	9.6655e-04	0.0000e+00
79	EMPTY	2.4414	2.4463	2.4416	9.6655e-04	0.0000e+00
80	PAN020136	-19.1217	-15.6122	-16.4870	1.0216e+00	8.7123e-01
81	PAN050136	-37.1737	-29.0865	-33.3681	2.0046e+00	1.6821e+00
82	PAN070136	-23.4806	-14.7831	-20.0382	1.2703e+00	8.7144e-01
83	PAN080136	-13.4525	-3.1528	-9.8682	2.3744e+00	8.7035e-01
84	PAN090136	-13.2882	-9.7024	-11.2375	1.3076e+00	8.7045e-01
85	PAN100136	-11.6641	-7.6968	-10.1107	8.7163e-01	8.7037e-01
86	PAN105136	-6.6926	-3.5645	-4.9119	8.1672e-01	8.7009e-01
87	PAN110136	-2.3717	0.4512	-0.7802	5.9077e-01	8.7000e-01
88	PAN115136	-1.8845	2.2354	-0.0595	8.5693e-01	8.7000e-01
89	PAN120136	-0.8971	1.4680	-0.0044	5.8293e-01	8.7000e-01
90	PAN125136	0.1636	1.1554	0.6534	2.4278e-01	8.7000e-01
91	PAN130136	1.4973	3.0231	2.2373	3.2524e-01	8.7002e-01
92	PAN120048	-0.1891	0.4213	0.1023	1.3410e-01	8.7000e-01
93	PAN130048	2.0822	3.3792	2.5842	2.6117e-01	8.7002e-01
94	PAN120224	-0.2668	2.5560	0.4778	6.2184e-01	8.7000e-01
95	PAN130224	2.8128	4.1861	3.5635	3.1262e-01	8.7005e-01
96	PAN120312	0.3787	0.9128	0.6595	1.2082e-01	8.7000e-01
97	PAN130312	2.2802	3.4246	2.8371	2.5711e-01	8.7003e-01
98	PAB000136	40.4071	40.8648	40.6323	8.7169e-02	5.8883e-01
99	PAB100136	44.2012	44.3843	44.2799	5.7040e-02	5.9047e-01
100	PAB125136	44.4477	44.6766	44.5612	5.1691e-02	5.9060e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0188	40.7512	40.5339	1.4651e-01	7.5681e-01
102	PRV000001	19.7552	19.8773	19.7894	5.5366e-02	7.5163e-01
103	PSR000001	44.0683	44.1903	44.0927	4.9324e-02	7.5806e-01
104	PFM000001	0.9895	1.3557	1.1763	7.3893e-02	5.0001e-01
105	PAN000136	-113.6045	-105.8225	-108.8895	1.6472e+00	4.9275e+00
106	PFM000002	0.8742	0.9245	0.8919	1.2414e-02	2.0001e-01
107	EMPTY	-0.0049	0.0000	-0.0046	1.1714e-03	0.0000e+00
108	EMPTY	-10.0000	6.9092	-9.2976	3.0318e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0004	1.9331e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0006	1.6028e-03	0.0000e+00
112	VPW000001	101.9531	102.9297	102.4180	2.8424e-01	1.0167e+00
113	VPW000002	119.1369	119.5275	119.3634	8.2393e-02	1.0812e+00
114	VPW000003	147.4121	147.8027	147.5605	1.1545e-01	1.2000e+00
115	VPW000004	105.1683	105.5589	105.3792	9.5357e-02	1.0276e+00
116	VPW000005	139.5696	140.1555	139.8663	1.2627e-01	1.1663e+00
117	VPW000006	146.3153	146.9013	146.5849	1.6690e-01	1.1957e+00
118	IPW000001	537.1947	545.0041	540.6307	1.9547e+00	9.1570e+00
119	IPW000002	1296.5437	1302.3975	1298.6903	1.2621e+00	1.3072e+01
120	IPW000003	1321.7625	1325.6625	1323.6343	1.1793e+00	1.3227e+01
121	IPW000004	381.7514	383.2163	382.3373	3.1195e-01	3.6226e+00
122	IPW000005	252.6790	253.6555	253.1867	3.2655e-01	2.8286e+00
123	IPW000006	266.1978	267.6626	266.9401	3.7226e-01	2.9064e+00
124	EMPTY	-0.0244	-0.0146	-0.0210	3.3087e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.6118e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0170	3.3073e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0177	3.5417e-03	0.0000e+00
128	IHT000001	130.7580	132.9064	131.6720	5.0754e-01	4.3062e+00
129	IHT000002	130.3185	132.2716	131.0997	4.6354e-01	4.3045e+00
130	IHT000003	129.1917	130.9495	130.0589	4.0464e-01	4.3013e+00
131	IHT000004	131.5655	133.3233	132.2647	4.2698e-01	4.3081e+00
132	IHT000005	129.9054	131.6632	130.5889	4.3984e-01	4.3029e+00
133	IHT000006	125.2441	127.3926	126.2519	4.3290e-01	4.2900e+00
134	IHT000007	131.4566	133.9957	132.6987	4.7311e-01	4.3094e+00
135	IHT000008	130.0932	132.8275	131.4135	4.9687e-01	4.3055e+00
136	IHT000009	130.0143	132.1627	131.0142	4.6961e-01	4.3042e+00
137	IHT000010	129.9993	132.5383	131.4171	5.0503e-01	4.3055e+00
138	IHT000011	131.2538	133.4022	132.4764	4.6989e-01	4.3087e+00
139	IHT000012	130.2772	132.6209	131.4960	4.9687e-01	4.3057e+00
140	IHT000013	91.7217	94.2608	93.0030	4.8674e-01	4.2042e+00
141	IHT000014	127.0658	129.6049	128.3784	5.0229e-01	4.2963e+00
142	IHT000015	94.3660	96.7097	95.5535	4.9101e-01	4.2099e+00
143	IHT000016	88.6907	90.6438	89.7922	4.4251e-01	4.1972e+00
144	IHT000017	106.2763	109.0107	107.3115	6.0264e-01	4.2381e+00
145	IHT000018	107.0838	109.6229	108.3260	5.8893e-01	4.2407e+00
146	IHT000019	107.6510	109.6041	108.6783	4.9096e-01	4.2416e+00
147	IHT000020	105.8218	107.7749	106.7319	4.7941e-01	4.2366e+00
148	IHT000021	-2.3099	0.2291	-1.3451	5.6828e-01	4.1000e+00
149	IHT000022	92.4429	94.7866	93.5132	5.0876e-01	4.2053e+00
150	IHT000023	105.4462	107.0087	106.1728	3.8871e-01	4.2352e+00
151	IHT000024	70.6167	71.9839	71.2222	4.0482e-01	4.1614e+00
152	IHT000025	103.1813	104.7438	103.8337	3.8985e-01	4.2294e+00
153	IHT000026	105.3035	107.0613	106.0652	4.0289e-01	4.2350e+00
154	IHT000027	89.9715	92.1199	90.9246	5.2443e-01	4.1996e+00
155	IHT000028	90.6025	93.1415	91.7236	6.4695e-01	4.2013e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0960	108.2444	107.0257	5.5882e-01	4.2374e+00
157	IHT000030	108.4435	110.5919	109.3888	5.6546e-01	4.2434e+00
158	IHT000031	106.1148	108.2632	107.2046	5.5955e-01	4.2378e+00
159	IHT000032	107.1590	109.5027	108.2020	5.9269e-01	4.2404e+00
160	IHT000033	107.1665	109.5102	108.1665	6.0828e-01	4.2403e+00
161	IHT000034	93.7650	96.3041	94.8081	5.7940e-01	4.2082e+00
162	IHT000035	123.4751	125.8188	124.4673	5.8506e-01	4.2848e+00
163	IHT000036	92.6795	95.0233	93.5076	5.6985e-01	4.2053e+00

Velocity 1 = 2.8307 (ft/sec) (+/- 21.4342 %)
Velocity 2 = 2.4865 (ft/sec) (+/- 10.5440 %)
Pressure drop = -3.9212 (psi)
Tsat in = 268.2466 (deg F) Tsat out = 273.8096 (deg F)
Phi inner = 100.5221 (kBtu/hr-ft2) (+/- 1.5703 %)
Phi outer = 100.2910 (kBtu/hr-ft2) (+/- 1.5539 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.3346	76.9715	76.6726	1.8344e-01	1.9000e+00
1	TRF000002	76.8330	77.2554	77.0701	1.2665e-01	1.9000e+00
2	TFM000001	85.3952	86.3397	85.9860	2.1166e-01	1.9002e+00
3	TIN000001	85.5675	86.1982	85.9363	1.4419e-01	1.9002e+00
4	TRV000001	87.2099	88.1530	87.6357	2.1299e-01	1.9002e+00
5	TSR000001	172.2576	177.9258	174.8217	1.3704e+00	1.9074e+00
6	EMPTY	37.9974	38.9168	38.4431	1.9574e-01	1.9010e+00
7	TAO050136	240.0738	240.9171	240.5228	1.9873e-01	1.9195e+00
8	TAO070136	255.8310	256.9533	256.4724	2.4947e-01	1.9233e+00
9	TAO080136	261.4458	262.5547	261.8711	2.6044e-01	1.9246e+00
10	TAO090136	261.1429	262.7170	261.8761	3.8225e-01	1.9246e+00
11	TAO100136	261.9610	282.6944	282.3219	1.9568e-01	1.9301e+00
12	TAO105136	279.8831	281.6292	280.9786	3.8100e-01	1.9298e+00
13	EMPTY	40.9819	41.4403	41.2439	1.4792e-01	1.9011e+00
14	TAO115136	279.3362	280.6267	279.8967	2.7835e-01	1.9295e+00
15	EMPTY	31.5371	42.8139	38.0771	3.0403e+00	1.9010e+00
16	TAO125136	285.7822	288.2401	287.2979	5.6118e-01	1.9315e+00
17	EMPTY	32.3911	33.0921	32.6439	2.0145e-01	1.9007e+00
18	EMPTY	41.4403	41.6693	41.5291	1.1277e-01	1.9012e+00
19	TAO130048	292.7110	294.2523	293.4513	3.2942e-01	1.9333e+00
20	TAO120224	279.1385	283.2665	281.6349	7.3325e-01	1.9299e+00
21	EMPTY	39.3761	39.8352	39.5120	1.3994e-01	1.9011e+00
22	TAO120312	301.8099	302.8090	302.2900	2.7805e-01	1.9360e+00
23	TAO130312	291.5873	293.3163	292.5625	3.5176e-01	1.9331e+00
24	EMPTY	39.1464	40.0646	39.6291	2.1598e-01	1.9011e+00
25	TRT070000	243.0717	260.9276	251.4260	5.6601e+00	1.9220e+00
26	TRT100000	302.9265	303.5606	303.2688	1.6967e-01	1.9363e+00
27	TRT120000	301.9625	303.2318	302.4271	2.4732e-01	1.9361e+00
28	TRT125000	290.4980	292.8568	291.4450	4.0953e-01	1.9328e+00
29	EMPTY	39.8352	40.2940	40.0834	1.0299e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6946	2.2865e-01	1.9011e+00
31	TAF050136	156.0892	158.7627	157.4038	6.2040e-01	1.9051e+00
32	TAF070136	179.1338	183.8927	180.9975	1.2269e+00	1.9083e+00
33	TAF080136	189.7216	195.1069	192.8387	1.5285e+00	1.9101e+00
34	TAF090136	199.0099	201.8992	200.0755	6.1674e-01	1.9114e+00
35	TAF100136	213.5653	215.3833	214.2297	3.9704e-01	1.9140e+00
36	TAF105136	220.9152	223.1792	222.0281	5.8467e-01	1.9155e+00
37	TAF110136	229.6099	233.0869	230.7078	7.3126e-01	1.9173e+00
38	TAF115136	241.2589	249.2009	244.4035	1.7599e+00	1.9204e+00
39	TAF120136	253.4293	265.7096	259.1189	2.6643e+00	1.9239e+00
40	TAF125136	259.5693	271.7845	267.6720	3.0817e+00	1.9261e+00
41	TAF130136	262.1434	272.2811	268.5065	2.3773e+00	1.9264e+00
42	TAF120048	275.0444	276.2483	275.6208	2.8921e-01	1.9283e+00
43	TAF130048	274.2882	275.1167	274.7524	1.7725e-01	1.9280e+00
44	TAF120224	249.8737	269.9861	261.6530	4.3373e+00	1.9246e+00
45	TAF130224	261.2627	273.6149	268.0220	3.2452e+00	1.9262e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1194	2.1558e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9523	2.2030e-01	1.9011e+00
48	TAI130048	299.3881	300.8406	300.0479	3.3147e-01	1.9353e+00
49	TAI130136	288.8523	290.6721	289.8213	4.5718e-01	1.9323e+00
50	TAI130224	242.9060	245.2546	244.1812	5.2196e-01	1.9203e+00
51	TAI130312	265.3121	266.8864	266.0815	4.1890e-01	1.9257e+00
52	TRR130000	145.9359	148.9307	147.5004	8.3316e-01	1.9040e+00
53	TSI000001	44.5208	45.3896	44.9487	1.9232e-01	1.9004e+00
54	TSI000002	169.9590	171.2375	170.7518	2.7167e-01	1.9068e+00
55	TSO000001	42.8382	43.6024	43.3391	1.8228e-01	1.9005e+00
56	TSO000002	61.9413	63.0120	62.4856	2.1290e-01	1.9000e+00
57	TAF020136	115.5485	118.5400	116.6609	6.8608e-01	1.9015e+00
58	EMPTY	42.8139	43.5000	43.2386	2.4255e-01	1.9013e+00
59	TAF130312	274.2397	275.3430	274.8555	2.4539e-01	1.9281e+00
60	EMPTY	5.0830	5.0928	5.0883	2.7902e-03	0.0000e+00
61	EMPTY	5.0635	5.0684	5.0683	6.9754e-04	0.0000e+00
62	EMPTY	5.0488	5.0537	5.0490	9.7615e-04	0.0000e+00
63	EMPTY	5.0342	5.0391	5.0388	1.1827e-03	0.0000e+00
64	EMPTY	2.3242	2.3340	2.3302	2.2871e-03	0.0000e+00
65	EMPTY	2.3340	2.3438	2.3389	1.4095e-03	0.0000e+00
66	EMPTY	2.3389	2.3438	2.3437	6.9754e-04	0.0000e+00
67	EMPTY	2.3438	2.3535	2.3502	2.5191e-03	0.0000e+00
68	EMPTY	2.3486	2.3535	2.3524	2.0584e-03	0.0000e+00
69	EMPTY	2.3584	2.3633	2.3600	2.3135e-03	0.0000e+00
70	EMPTY	2.3633	2.3682	2.3654	2.4414e-03	0.0000e+00
71	EMPTY	2.3779	2.3828	2.3781	9.7615e-04	0.0000e+00
72	EMPTY	2.3779	2.3828	2.3815	2.1781e-03	0.0000e+00
73	EMPTY	2.3877	2.4023	2.3892	2.8548e-03	0.0000e+00
74	EMPTY	2.3926	2.3975	2.3934	1.8234e-03	0.0000e+00
75	EMPTY	2.3975	2.4023	2.4017	1.6172e-03	0.0000e+00
76	EMPTY	2.3975	2.4072	2.4037	2.4414e-03	0.0000e+00
77	EMPTY	2.4121	2.4170	2.4132	2.0584e-03	0.0000e+00
78	EMPTY	2.4268	2.4268	2.4268	0.0000e+00	0.0000e+00
79	EMPTY	2.4365	2.4414	2.4412	9.7615e-04	0.0000e+00
80	PAN020136	-19.1217	-15.1544	-18.7449	7.9017e-01	8.7126e-01
81	PAN050136	-36.8685	-29.5443	-33.0631	1.6515e+00	1.6820e+00
82	PAN070136	-23.0228	-12.7231	-19.6659	1.4987e+00	8.7139e-01
83	PAN080136	-13.3762	-3.6869	-9.6596	2.7780e+00	8.7034e-01
84	PAN090136	-13.2882	-9.4735	-11.2267	1.3947e+00	8.7045e-01
85	PAN100136	-11.2826	-6.9338	-10.0930	7.6547e-01	8.7037e-01
86	PAN105136	-6.6163	-3.6408	-4.8724	6.8275e-01	8.7009e-01
87	PAN110136	-2.5243	0.2986	-1.2164	7.1026e-01	8.7001e-01
88	PAN115136	-2.1133	2.1591	0.2969	9.1790e-01	8.7000e-01
89	PAN120136	-0.5156	2.0784	0.0776	5.3184e-01	8.7000e-01
90	PAN125136	0.2399	1.0791	0.7241	1.9486e-01	8.7000e-01
91	PAN130136	1.8787	3.1757	2.4206	2.8000e-01	8.7002e-01
92	PAN120048	-0.3417	0.6501	0.0787	2.0550e-01	8.7000e-01
93	PAN130048	2.0059	3.8369	2.7875	4.2494e-01	8.7003e-01
94	PAN120224	-0.4194	2.7849	0.5989	7.9219e-01	8.7000e-01
95	PAN130224	2.8891	4.3387	3.5820	3.4678e-01	8.7005e-01
96	PAN120312	0.4550	0.9128	0.6403	9.0808e-02	8.7000e-01
97	PAN130312	2.4328	3.7298	2.9917	3.1893e-01	8.7003e-01
98	PAB000136	40.4071	40.7733	40.5930	7.4990e-02	5.8881e-01
99	PAB100136	44.1554	44.4301	44.2610	6.2824e-02	5.9046e-01
100	PAB125136	44.4019	44.6308	44.5299	5.5264e-02	5.9059e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.1409	40.7512	40.5719	1.4336e-01	7.5683e-01
102	PRV0000001	19.7552	19.8773	19.7926	5.6843e-02	7.5163e-01
103	PSR0000001	44.0683	44.1903	44.0782	3.3770e-02	7.5805e-01
104	PFM0000001	1.0811	1.2642	1.1820	7.2967e-02	5.0001e-01
105	PAN000136	-113.1467	-104.9070	-108.5597	1.9986e+00	4.9275e+00
106	PFM0000002	0.8742	0.9245	0.9040	1.4232e-02	2.0001e-01
107	EMPTY	-0.0049	0.0000	-0.0048	6.9754e-04	0.0000e+00
108	EMPTY	-10.0000	9.9951	-8.9079	4.0006e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0026	2.4621e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0018	2.3783e-03	0.0000e+00
112	VPW0000001	101.9531	102.7344	102.2162	2.0152e-01	1.0160e+00
113	VPW0000002	119.1369	119.5275	119.3242	1.0517e-01	1.0811e+00
114	VPW0000003	147.4121	147.8027	147.5875	1.1448e-01	1.2001e+00
115	VPW0000004	104.9730	105.5589	105.2640	1.3881e-01	1.0271e+00
116	VPW0000005	139.5696	140.1555	139.8445	1.1906e-01	1.1662e+00
117	VPW0000006	145.7294	146.7060	146.1998	2.4550e-01	1.1940e+00
118	IPW0000001	537.1947	545.0041	541.0198	1.4889e+00	9.1585e+00
119	IPW0000002	1294.5924	1300.4463	1298.3755	1.5635e+00	1.3070e+01
120	IPW0000003	1321.7625	1327.6125	1323.9907	1.3789e+00	1.3229e+01
121	IPW0000004	381.2632	382.7280	381.8211	4.2286e-01	3.6192e+00
122	IPW0000005	252.6790	253.6555	253.2070	3.1257e-01	2.8287e+00
123	IPW0000006	265.7095	267.6626	266.3574	4.9221e-01	2.9031e+00
124	EMPTY	-0.0293	-0.0146	-0.0222	3.6021e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	3.1260e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0187	3.5022e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0172	3.4673e-03	0.0000e+00
128	IHT0000001	130.5627	133.1017	131.7146	5.8219e-01	4.3064e+00
129	IHT0000002	129.9279	133.0529	131.1356	5.6336e-01	4.3046e+00
130	IHT0000003	128.8011	132.1214	130.1245	5.4993e-01	4.3015e+00
131	IHT0000004	131.1749	133.5186	132.3547	5.0737e-01	4.3083e+00
132	IHT0000005	129.5147	131.8585	130.6387	4.8425e-01	4.3031e+00
133	IHT0000006	125.2441	127.3926	126.3124	5.0760e-01	4.2902e+00
134	IHT0000007	131.6519	133.8003	132.7241	4.9815e-01	4.3095e+00
135	IHT0000008	130.4838	132.6322	131.4684	4.9468e-01	4.3056e+00
136	IHT0000009	129.8190	132.1627	131.0824	5.1844e-01	4.3044e+00
137	IHT0000010	130.3899	132.5383	131.3464	5.3376e-01	4.3053e+00
138	IHT0000011	130.6678	133.0116	132.0390	5.5313e-01	4.3074e+00
139	IHT0000012	129.6912	132.0350	131.1222	5.2193e-01	4.3046e+00
140	IHT0000013	91.7217	93.8702	92.7939	5.0449e-01	4.2037e+00
141	IHT0000014	126.8705	129.4095	128.2696	5.4569e-01	4.2960e+00
142	IHT0000015	94.1707	96.3191	95.3107	4.7399e-01	4.2093e+00
143	IHT0000016	88.3000	90.6438	89.4839	4.8075e-01	4.1965e+00
144	IHT0000017	105.8857	108.4247	106.9300	6.0272e-01	4.2371e+00
145	IHT0000018	106.6932	109.0370	108.0365	4.5914e-01	4.2400e+00
146	IHT0000019	107.6510	109.9947	108.6953	5.4160e-01	4.2416e+00
147	IHT0000020	105.6265	107.9703	106.7346	5.2345e-01	4.2367e+00
148	IHT0000021	-2.7006	0.2291	-1.3573	6.4116e-01	4.1000e+00
149	IHT0000022	92.4429	94.9820	93.3995	5.0310e-01	4.2050e+00
150	IHT0000023	105.0556	107.3993	106.1717	4.5805e-01	4.2352e+00
151	IHT0000024	69.8355	72.1792	71.1787	4.3240e-01	4.1613e+00
152	IHT0000025	102.5954	104.5485	103.8191	4.2150e-01	4.2294e+00
153	IHT0000026	104.9128	106.8660	106.0290	4.2004e-01	4.2349e+00
154	IHT0000027	89.7762	91.9246	90.7886	5.0220e-01	4.1993e+00
155	IHT0000028	90.2118	92.3603	91.3917	5.3482e-01	4.2006e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.7054	107.8538	106.8135	5.1888e-01	4.2369e+00
157	IHT000030	108.2482	110.2013	109.2128	5.0019e-01	4.2430e+00
158	IHT000031	105.9195	108.0679	107.0594	5.3242e-01	4.2375e+00
159	IHT000032	106.7683	109.1121	108.0558	5.0417e-01	4.2400e+00
160	IHT000033	106.9711	109.1196	108.0434	4.9655e-01	4.2400e+00
161	IHT000034	93.5697	95.9135	94.6061	4.6013e-01	4.2077e+00
162	IHT000035	123.0845	125.2329	124.3361	4.6650e-01	4.2844e+00
163	IHT000036	92.2889	94.2420	93.2694	4.0948e-01	4.2047e+00

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Velocity 1 = 0.006600 (ft/sec)

Velocity 2 = 0.016000 (ft/sec)

Pressure Drop = 0.011900 (psi)

Tsat in = 0.057800 (deg F) Tsat out = 0.042603 (deg F)

Phi inner = 0.042801 (kBtu/hr-ft2) Phi outer = 0.090897 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0535	0.0698
1	TRF000002	0.0037	0.0048
2	TFM000001	0.0329	0.0383
3	TIN000001	0.0200	0.0233
4	TRV000001	0.0729	0.0831
5	TSR000001	1.9005	1.0754
6	EMPTY	0.1284	0.3351
7	TAO050136	0.1008	0.0419
8	TAO070136	0.0470	0.0183
9	TAO080136	0.1545	0.0590
10	TAO090136	1.2227	0.4691
11	TAO100136	0.0421	0.0149
12	TAO105136	0.1545	0.0549
13	EMPTY	0.0007	0.0017
14	TAO115136	0.1808	0.0646
15	EMPTY	0.1910	0.4991
16	TAO125136	0.3655	0.1274
17	EMPTY	0.0323	0.0988
18	EMPTY	0.0074	0.0178
19	TAO130048	0.3079	0.1048
20	TAO120224	0.2270	0.0805
21	EMPTY	0.0018	0.0046
22	TAO120312	0.1847	0.0611
23	TAO130312	0.2549	0.0871
24	EMPTY	0.0785	0.1985
25	TRT070000	0.1424	0.0566
26	TRT100000	0.0093	0.0031
27	TRT120000	0.1157	0.0382
28	TRT125000	0.1096	0.0376
29	EMPTY	0.0279	0.0697
30	EMPTY	0.0063	0.0159
31	TAF050136	0.1533	0.0975
32	TAF070136	0.1003	0.0554
33	TAF080136	0.2683	0.1393
34	TAF090136	0.2214	0.1105
35	TAF100136	0.1397	0.0653
36	TAF105136	0.1920	0.0866
37	TAF110136	0.0825	0.0358
38	TAF115136	0.2933	0.1202
39	TAF120136	0.6939	0.2685
40	TAF125136	1.2275	0.4607
41	TAF130136	0.0508	0.0189
42	TAF120048	0.0355	0.0129
43	TAF130048	0.0480	0.0175
44	TAF120224	0.6687	0.2549
45	TAF130224	0.6214	0.2313

#	Name	Abs Diff	%Diff
46	EMPTY	0.1128	0.2968
47	EMPTY	0.0575	0.1441
48	TAI130048	0.0424	0.0141
49	TAI130136	0.0486	0.0168
50	TAI130224	0.0515	0.0211
51	TAI130312	0.6026	0.2270
52	TRR130000	0.8140	0.5549
53	TSI000001	0.1148	0.2561
54	TSI000002	0.1712	0.1004
55	TSO000001	0.1084	0.2507
56	TSO000002	0.0345	0.0552
57	TAF020136	0.0604	0.0517
58	EMPTY	0.0634	0.1468
59	TAF130312	0.0133	0.0048
60	EMPTY	0.0011	0.0216
61	EMPTY	0.0010	0.0197
62	EMPTY	0.0026	0.0515
63	EMPTY	0.0022	0.0436
64	EMPTY	0.0010	0.0429
65	EMPTY	0.0007	0.0299
66	EMPTY	0.0005	0.0213
67	EMPTY	0.0007	0.0298
68	EMPTY	0.0011	0.0467
69	EMPTY	0.0018	0.0762
70	EMPTY	0.0017	0.0718
71	EMPTY	0.0012	0.0504
72	EMPTY	0.0013	0.0546
73	EMPTY	0.0021	0.0878
74	EMPTY	0.0035	0.1460
75	EMPTY	0.0006	0.0250
76	EMPTY	0.0033	0.1371
77	EMPTY	0.0038	0.1572
78	EMPTY	0.0002	0.0082
79	EMPTY	0.0004	0.0164
80	PAN020136	0.2579	1.3950
81	PAN050136	0.3050	0.9140
82	PAN070136	0.3723	1.8580
83	PAN080136	0.2086	2.1139
84	PAN090136	0.0108	0.0961
85	PAN100136	0.0177	0.1751
86	PAN105136	0.0395	0.8042
87	PAN110136	0.4362	55.9087
88	PAN115136	0.3564	598.9916
89	PAN120136	0.0820	1863.6364
90	PAN125136	0.0707	10.8203
91	PAN130136	0.1833	8.1929
92	PAN120048	0.0236	23.0694
93	PAN130048	0.2033	7.8670
94	PAN120224	0.1211	25.3453
95	PAN130224	0.0185	0.5192
96	PAN120312	0.0192	2.9113
97	PAN130312	0.1546	5.4492
98	PAB000136	0.0393	0.0967
99	PAB100136	0.0189	0.0427
100	PAB125136	0.0313	0.0702

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0380	0.0937
102	PRV000001	0.0032	0.0162
103	PSR000001	0.0145	0.0329
104	PFM000001	0.0057	0.4846
105	PAN000136	0.3298	0.3029
106	PFM000002	0.0121	1.3567
107	EMPTY	0.0002	4.3478
108	EMPTY	0.3897	4.1914
109	EMPTY	0.0022	550.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0012	200.0000
112	VPW000001	0.2018	0.1970
113	VPW000002	0.0392	0.0328
114	VPW000003	0.0270	0.0183
115	VPW000004	0.1152	0.1093
116	VPW000005	0.0218	0.0156
117	VPW000006	0.3851	0.2627
118	IPW000001	0.3891	0.0720
119	IPW000002	0.3148	0.0242
120	IPW000003	0.3564	0.0269
121	IPW000004	0.5162	0.1350
122	IPW000005	0.0203	0.0080
123	IPW000006	0.5827	0.2183
124	EMPTY	0.0012	5.7143
125	EMPTY	0.0002	1.4286
126	EMPTY	0.0017	10.0000
127	EMPTY	0.0005	2.8249
128	IHT000001	0.0426	0.0324
129	IHT000002	0.0359	0.0274
130	IHT000003	0.0656	0.0504
131	IHT000004	0.0900	0.0681
132	IHT000005	0.0498	0.0381
133	IHT000006	0.0605	0.0479
134	IHT000007	0.0254	0.0191
135	IHT000008	0.0549	0.0418
136	IHT000009	0.0682	0.0520
137	IHT000010	0.0707	0.0538
138	IHT000011	0.4374	0.3302
139	IHT000012	0.3738	0.2843
140	IHT000013	0.2091	0.2248
141	IHT000014	0.1088	0.0847
142	IHT000015	0.2428	0.2541
143	IHT000016	0.3083	0.3433
144	IHT000017	0.3815	0.3555
145	IHT000018	0.2895	0.2672
146	IHT000019	0.0170	0.0156
147	IHT000020	0.0027	0.0025
148	IHT000021	0.0122	0.9070
149	IHT000022	0.1137	0.1216
150	IHT000023	0.0011	0.0010
151	IHT000024	0.0435	0.0611
152	IHT000025	0.0146	0.0141
153	IHT000026	0.0362	0.0341
154	IHT000027	0.1360	0.1496
155	IHT000028	0.3319	0.3618

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2122	0.1983
157	IHT000030	0.1760	0.1609
158	IHT000031	0.1452	0.1354
159	IHT000032	0.1462	0.1351
160	IHT000033	0.1231	0.1138
161	IHT000034	0.2020	0.2131
162	IHT000035	0.1312	0.1054
163	IHT000036	0.2382	0.2547

Velocity 1 = 25.8314 (ft/sec) (+/- 3.4793 %)
Velocity 2 = 13.2414 (ft/sec) (+/- 3.4867 %)
Pressure drop = 21.4284 (psi)
Tsats in = 287.4545 (deg F) Tsats out = 258.8820 (deg F)
Phi inner = 0.0055 (kBtu/hr-ft2) (+/- 118.7469 %)
Phi outer = 0.0078 (kBtu/hr-ft2) (+/- 120.7271 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.4813	1.4241e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1254	1.3263e-01	1.9000e+00
2	TFM000001	87.0794	87.7082	87.3647	1.8565e-01	1.9002e+00
3	TIN000001	87.2565	88.0961	87.6680	1.8829e-01	1.9002e+00
4	TRV000001	86.8377	88.5101	87.6034	3.4650e-01	1.9002e+00
5	TSR000001	87.4509	88.4963	87.8821	2.5197e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.8680	87.6006	87.1071	1.8186e-01	1.9002e+00
8	TAO070136	88.0549	88.8959	88.4506	2.1181e-01	1.9002e+00
9	TAO080136	87.7349	88.3616	88.0736	1.6567e-01	1.9002e+00
10	TAO090136	87.5065	88.2391	87.9000	1.6723e-01	1.9002e+00
11	TAO100136	87.8177	88.4465	88.1114	1.3552e-01	1.9002e+00
12	TAO105136	87.9663	88.7000	88.4024	2.0899e-01	1.9002e+00
13	EMPTY	40.7527	41.4403	41.0828	1.3227e-01	1.9011e+00
14	TAO115136	87.2809	88.0175	87.6641	2.1109e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5513	5.5183e-02	1.9009e+00
16	TAO125136	87.6087	88.2372	87.9567	1.7109e-01	1.9002e+00
17	TAO130136	87.6617	88.3889	87.9651	1.6939e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2707	1.0152e-01	1.9011e+00
19	TAO130048	87.5696	88.3016	87.9376	1.5289e-01	1.9002e+00
20	TAO120224	87.2711	88.0044	87.6231	1.5529e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.9076	1.0336e-01	1.9010e+00
22	TAO120312	87.5505	88.2847	87.9153	1.7370e-01	1.9002e+00
23	TAO130312	87.3422	87.7622	87.5815	1.2536e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3393	1.9877e-01	1.9010e+00
25	TRT070000	87.2403	88.0820	87.7329	1.7717e-01	1.9002e+00
26	TRT100000	87.8418	88.7827	88.3484	2.1888e-01	1.9002e+00
27	TRT120000	87.7526	88.3813	88.0630	1.5253e-01	1.9002e+00
28	TRT125000	87.8338	88.5642	88.1385	1.9196e-01	1.9002e+00
29	EMPTY	39.3761	39.6057	39.5873	6.2916e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6791	1.9365e-01	1.9011e+00
31	TAF050136	87.6858	88.4176	88.0711	1.6967e-01	1.9002e+00
32	TAF070136	88.2798	89.1152	88.7145	2.0037e-01	1.9002e+00
33	TAF080136	87.5771	88.5155	88.0783	1.6733e-01	1.9002e+00
34	TAF090136	88.0689	88.8022	88.4378	2.1902e-01	1.9002e+00
35	TAF100136	87.4203	88.2595	87.8988	1.6845e-01	1.9002e+00
36	TAF105136	87.6927	88.5261	88.1262	2.5550e-01	1.9002e+00
37	TAF110136	87.4834	88.2157	87.8688	1.5885e-01	1.9002e+00
38	TAF115136	88.1606	88.7891	88.4374	1.7532e-01	1.9002e+00
39	TAF120136	87.7306	88.3585	88.0616	1.7338e-01	1.9002e+00
40	TAF125136	88.0038	88.6312	88.3012	1.5121e-01	1.9002e+00
41	TAF130136	87.8078	88.4364	88.0930	1.4362e-01	1.9002e+00
42	TAF120048	88.0322	88.8748	88.4500	2.1587e-01	1.9002e+00
43	TAF130048	87.6273	88.0473	87.8666	1.1419e-01	1.9002e+00
44	TAF120224	87.7423	88.4759	88.1821	1.6799e-01	1.9002e+00
45	TAF130224	87.2704	87.9008	87.5856	1.8023e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.0986	2.6341e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1786	8.0489e-02	1.9010e+00
48	TAI130048	87.8237	88.9765	88.2640	2.7444e-01	1.9002e+00
49	TAI130136	87.1351	88.1813	87.6962	2.1000e-01	1.9002e+00
50	TAI130224	87.6888	88.7387	88.2099	2.7655e-01	1.9002e+00
51	TAI130312	87.1956	88.0350	87.6658	1.8870e-01	1.9002e+00
52	TRR130000	86.8619	87.9087	87.3647	2.4198e-01	1.9002e+00
53	TSI000001	79.5133	80.2513	79.8968	1.5471e-01	1.9001e+00
54	TSI000002	70.5115	71.6788	71.0634	2.9086e-01	1.9000e+00
55	TSO000001	67.4465	68.3025	67.8279	1.8854e-01	1.9000e+00
56	TSO000002	79.4731	80.2122	79.8533	1.7970e-01	1.9001e+00
57	TAF020136	87.1944	88.0367	87.6448	1.8670e-01	1.9002e+00
58	TAF120312	74.5334	75.6981	75.1010	2.5834e-01	1.9000e+00
59	TAF130312	86.9296	87.7680	87.4118	1.7964e-01	1.9002e+00
60	EMPTY	0.4932	0.4980	0.4948	2.3365e-03	0.0000e+00
61	EMPTY	0.5078	0.5127	0.5094	2.3008e-03	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5235	2.0432e-03	0.0000e+00
63	EMPTY	0.5371	0.5420	0.5396	2.4642e-03	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3444	2.4583e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3651	2.0432e-03	0.0000e+00
66	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3989	2.2603e-03	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4124	2.4583e-03	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4300	1.1714e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4457	2.2146e-03	0.0000e+00
71	EMPTY	0.4639	0.4736	0.4690	1.5314e-03	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4838	1.3381e-03	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5179	1.1714e-03	0.0000e+00
75	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
76	EMPTY	0.5469	0.5518	0.5516	9.6655e-04	0.0000e+00
77	EMPTY	0.5713	0.5713	0.5713	0.0000e+00	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5921	2.1635e-03	0.0000e+00
79	EMPTY	0.6152	0.6152	0.6152	0.0000e+00	0.0000e+00
80	PAN020136	67.8518	71.7428	69.9621	8.8486e-01	8.8741e-01
81	PAN050136	141.0256	143.3144	142.0479	4.4700e-01	1.7171e+00
82	PAN070136	100.0334	100.0334	100.0334	7.7069e-06	9.0523e-01
83	PAN080136	43.7371	44.6526	44.1659	2.3370e-01	8.7698e-01
84	PAN090136	44.0512	44.7378	44.3853	1.8996e-01	8.7705e-01
85	PAN100136	46.0685	46.7552	46.4073	1.7920e-01	8.7770e-01
86	PAN105136	29.9110	31.0554	30.3901	2.5794e-01	8.7331e-01
87	PAN110136	26.8475	27.4579	27.1130	1.1763e-01	8.7264e-01
88	PAN115136	25.5168	26.6612	26.1622	3.0016e-01	8.7246e-01
89	PAN120136	18.3936	19.2328	18.7247	2.0251e-01	8.7126e-01
90	PAN125136	19.4543	20.2172	19.8937	1.9101e-01	8.7142e-01
91	PAN130136	17.6687	18.4317	18.0242	1.5840e-01	8.7117e-01
92	PAN120048	43.2251	43.9118	43.5242	1.5168e-01	8.7678e-01
93	PAN130048	40.7455	41.4322	41.0186	1.6392e-01	8.7602e-01
94	PAN120224	45.6782	46.4411	46.0154	1.7580e-01	8.7757e-01
95	PAN130224	40.2364	40.9231	40.5874	1.5491e-01	8.7590e-01
96	PAN120312	45.1647	45.8514	45.5950	1.5851e-01	8.7744e-01
97	PAN130312	39.1948	39.8051	39.4847	1.5259e-01	8.7558e-01
98	PAB000136	55.2582	55.7160	55.4487	1.1303e-01	5.9634e-01
99	PAB100136	38.9196	39.1943	39.0240	5.6285e-02	5.8815e-01
100	PAB125136	34.5682	34.7513	34.6570	4.6619e-02	5.8644e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	54.5461	55.6447	55.0636	2.0716e-01	7.6253e-01
102	PRV000001	21.1481	21.2702	21.1749	5.1081e-02	7.5187e-01
103	PSR000001	31.1837	31.3058	31.2081	4.9324e-02	7.5405e-01
104	PFM000001	103.1659	105.7294	104.2921	6.0256e-01	5.6390e-01
105	PAN000136	589.3187	597.1006	593.2555	1.9066e+00	5.1387e+00
106	PFM000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0096	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-8.4033	-9.7950	3.3224e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0053	1.3381e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0039	1.9730e-03	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8331	1.0168e-01	8.1002e-01
113	VPW000002	-0.9812	-0.5906	-0.7859	1.0440e-01	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7627	1.1334e-01	8.1001e-01
115	VPW000004	-0.8166	-0.2306	-0.5978	1.1599e-01	8.1001e-01
116	VPW000005	-1.4872	-0.9013	-1.3270	1.2283e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.4266	1.0470e-01	8.1005e-01
118	IPW000001	-11.3611	-7.4564	-9.6821	1.1163e+00	8.1004e+00
119	IPW000002	-14.0585	-8.2047	-10.1169	1.3932e+00	8.1004e+00
120	IPW000003	-13.6968	-9.7968	-12.6048	1.1254e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9355	2.4976e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.7371	2.9526e-01	2.0002e+00
123	IPW000006	-2.9297	-1.4648	-2.3242	3.6326e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0209	3.4229e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.3531e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0187	3.5141e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.2777e-03	0.0000e+00
128	IHT000001	-0.2494	-0.0541	-0.1830	9.3461e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1519	1.0763e-01	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2552	1.0358e-01	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1766	7.5283e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1081	8.4997e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0200	1.0763e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0995	7.1136e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1747	9.6976e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1766	7.5283e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1053	8.8585e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1034	7.5283e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1722	1.0470e-01	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0444	1.0259e-01	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1366	7.5283e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1150	9.4702e-02	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1552	8.5454e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	-0.0234	1.9587e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3847	1.0559e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0244	7.7324e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1034	7.8918e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3256	8.8233e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1981	9.6655e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1358	7.1136e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2306	8.8585e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0773	9.7377e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0742	9.5765e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1328	9.2034e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	-0.0045	9.4125e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1358	9.0412e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1036	7.2866e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0794	9.1354e-02	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0508	8.6541e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3794	8.8585e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0333	1.0507e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.0931	1.1272e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0244	9.5357e-02	4.1000e+00

Velocity 1 = 25.8546 (ft/sec) (+/- 3.4793 %)
Velocity 2 = 13.2415 (ft/sec) (+/- 3.4867 %)
Pressure drop = 21.4451 (psi)
Tsats in = 287.4439 (deg F) Tsats out = 258.8614 (deg F)
Phi inner = 0.0058 (kBtu/hr-ft2) (+/- 115.5656 %)
Phi outer = 0.0078 (kBtu/hr-ft2) (+/- 120.5881 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.4874	1.4388e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.0990	1.2606e-01	1.9000e+00
2	TFM000001	86.9757	87.7082	87.4175	1.8901e-01	1.9002e+00
3	TIN000001	87.3616	87.9914	87.6957	1.6412e-01	1.9002e+00
4	TRV000001	87.0481	88.1968	87.7106	2.7668e-01	1.9002e+00
5	TSR000001	87.4509	88.1831	87.9484	2.0168e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.6591	87.3923	87.0821	1.9202e-01	1.9002e+00
8	TAO070136	88.0549	88.8964	88.4781	2.2248e-01	1.9002e+00
9	TAO080136	87.7354	88.4662	88.0635	1.3659e-01	1.9002e+00
10	TAO090136	87.5065	88.2391	87.8611	2.0470e-01	1.9002e+00
11	TAO100136	87.7134	88.3419	88.0981	1.4249e-01	1.9002e+00
12	TAO105136	88.0709	88.8051	88.4156	1.8030e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0661	1.1163e-01	1.9011e+00
14	TAO115136	87.1757	88.0180	87.6419	2.3218e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5656	7.6185e-02	1.9010e+00
16	TAO125136	87.6087	88.3415	87.9573	1.6042e-01	1.9002e+00
17	TAO130136	87.6612	88.3889	87.9206	1.6323e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2860	1.1821e-01	1.9011e+00
19	TAO130048	87.6733	88.3016	87.9195	1.2200e-01	1.9002e+00
20	TAO120224	87.2711	88.0044	87.6346	1.6309e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8980	1.3127e-01	1.9010e+00
22	TAO120312	87.4454	88.1796	87.8501	1.5584e-01	1.9002e+00
23	TAO130312	87.1331	87.7618	87.5458	1.1984e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3011	1.5817e-01	1.9010e+00
25	TRT070000	87.4514	88.0825	87.7410	1.5713e-01	1.9002e+00
26	TRT100000	87.9469	88.5744	88.3267	1.6492e-01	1.9002e+00
27	TRT120000	87.8577	88.2767	88.0672	1.3003e-01	1.9002e+00
28	TRT125000	87.8333	88.5647	88.0980	1.6241e-01	1.9002e+00
29	EMPTY	39.3761	39.6057	39.5541	9.6784e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.7321	1.8777e-01	1.9011e+00
31	TAF050136	87.7904	88.3140	88.0300	1.2987e-01	1.9002e+00
32	TAF070136	88.3844	89.1156	88.7084	2.1632e-01	1.9002e+00
33	TAF080136	87.6822	88.3077	88.0227	1.5329e-01	1.9002e+00
34	TAF090136	87.9647	88.9067	88.4774	2.6965e-01	1.9002e+00
35	TAF100136	87.5254	88.1548	87.8294	1.7030e-01	1.9002e+00
36	TAF105136	87.6927	88.6306	88.1393	2.0493e-01	1.9002e+00
37	TAF110136	87.5885	88.1116	87.8915	1.2309e-01	1.9002e+00
38	TAF115136	88.0561	88.7891	88.4111	1.9790e-01	1.9002e+00
39	TAF120136	87.8353	88.3590	88.0661	1.4151e-01	1.9002e+00
40	TAF125136	88.0038	88.5267	88.2754	1.3305e-01	1.9002e+00
41	TAF130136	87.9124	88.4364	88.0839	1.2039e-01	1.9002e+00
42	TAF120048	87.8225	88.8753	88.3962	2.6341e-01	1.9002e+00
43	TAF130048	87.6273	88.0473	87.8565	1.0196e-01	1.9002e+00
44	TAF120224	87.8466	88.4754	88.1185	1.7225e-01	1.9002e+00
45	TAF130224	87.3751	87.9008	87.5943	1.3377e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0490	1.9501e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1886	8.9840e-02	1.9010e+00
48	TAI130048	87.7186	88.7670	88.2965	2.8470e-01	1.9002e+00
49	TAI130136	87.3441	88.1813	87.6842	1.8313e-01	1.9002e+00
50	TAI130224	87.6888	88.8442	88.2399	2.6390e-01	1.9002e+00
51	TAI130312	87.3002	88.1401	87.6904	1.8305e-01	1.9002e+00
52	TRR130000	86.9671	87.6997	87.3515	1.8668e-01	1.9002e+00
53	TSI000001	79.5133	80.1450	79.8573	1.3569e-01	1.9001e+00
54	TSI000002	70.6181	71.5728	71.0704	2.5056e-01	1.9000e+00
55	TSO000001	67.5540	68.0898	67.7986	1.5585e-01	1.9000e+00
56	TSO000002	79.4731	80.1069	79.7900	1.5982e-01	1.9001e+00
57	TAF020136	87.2991	87.8269	87.5572	1.4593e-01	1.9002e+00
58	TAF120312	74.5329	75.5924	75.1083	2.2984e-01	1.9000e+00
59	TAF130312	87.1390	87.7680	87.4196	1.5177e-01	1.9002e+00
60	EMPTY	0.4932	0.4980	0.4949	2.3483e-03	0.0000e+00
61	EMPTY	0.5078	0.5127	0.5092	2.2287e-03	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5231	1.6172e-03	0.0000e+00
63	EMPTY	0.5371	0.5420	0.5400	2.4247e-03	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3440	2.4538e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3647	2.2737e-03	0.0000e+00
66	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3975	2.4247e-03	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4107	1.4934e-03	0.0000e+00
69	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4449	1.6172e-03	0.0000e+00
71	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
72	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
73	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5177	6.9754e-04	0.0000e+00
75	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
76	EMPTY	0.5469	0.5518	0.5516	9.7615e-04	0.0000e+00
77	EMPTY	0.5713	0.5713	0.5713	0.0000e+00	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5928	2.4247e-03	0.0000e+00
79	EMPTY	0.6152	0.6152	0.6152	0.0000e+00	0.0000e+00
80	PAN020136	67.6992	72.1243	70.2730	1.0638e+00	8.8756e-01
81	PAN050136	140.7204	143.0092	141.7262	5.6831e-01	1.7170e+00
82	PAN070136	100.0334	100.0334	100.0334	0.0000e+00	9.0523e-01
83	PAN080136	43.7371	44.8052	44.2509	2.8367e-01	8.7701e-01
84	PAN090136	44.1275	44.8141	44.4902	1.8787e-01	8.7708e-01
85	PAN100136	45.9922	47.0603	46.3846	2.2134e-01	8.7769e-01
86	PAN105136	29.9110	31.0554	30.5073	2.3704e-01	8.7334e-01
87	PAN110136	27.0001	27.4579	27.1994	1.2634e-01	8.7265e-01
88	PAN115136	25.1353	27.1190	25.8858	4.6469e-01	8.7240e-01
89	PAN120136	18.2410	19.4617	18.8218	2.6466e-01	8.7127e-01
90	PAN125136	19.3017	20.4461	19.7626	2.5917e-01	8.7140e-01
91	PAN130136	17.7450	18.4317	18.1265	1.5958e-01	8.7118e-01
92	PAN120048	43.0725	43.9118	43.4260	1.8798e-01	8.7675e-01
93	PAN130048	40.3641	41.5085	40.9292	2.3614e-01	8.7600e-01
94	PAN120224	45.5256	46.5937	45.9382	2.3563e-01	8.7755e-01
95	PAN130224	40.1601	40.8468	40.4513	1.7178e-01	8.7586e-01
96	PAN120312	45.0884	45.9277	45.5104	2.1641e-01	8.7741e-01
97	PAN130312	38.8896	39.9577	39.3520	2.4840e-01	8.7554e-01
98	PAB000136	55.2125	55.7160	55.4395	1.1015e-01	5.9633e-01
99	PAB100136	38.9196	39.1027	39.0037	4.7043e-02	5.8814e-01
100	PAB125136	34.5682	34.7055	34.6448	4.6145e-02	5.8643e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	54.7902	55.4005	55.0592	1.7616e-01	7.6253e-01
102	PRV000001	21.1481	21.2702	21.1605	3.7334e-02	7.5186e-01
103	PSR000001	31.1837	31.3058	31.1962	3.7334e-02	7.5404e-01
104	PFM000001	103.4406	105.4547	104.4794	4.2392e-01	5.6411e-01
105	PAN000136	590.6920	596.6429	593.7188	1.4319e+00	5.1390e+00
106	PFM000002	27.2165	27.2165	27.2165	1.1563e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0096	9.7615e-04	0.0000e+00
108	EMPTY	-10.0000	-8.7549	-9.6824	3.6742e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0051	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0037	2.1215e-03	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8287	8.9148e-02	8.1002e-01
113	VPW000002	-0.9812	-0.5906	-0.7859	1.1276e-01	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7933	1.1960e-01	8.1001e-01
115	VPW000004	-0.8166	-0.4259	-0.6173	1.0911e-01	8.1001e-01
116	VPW000005	-1.4872	-1.0966	-1.3437	1.1117e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.4157	1.1462e-01	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.8869	1.0184e+00	8.1004e+00
119	IPW000002	-12.1072	-8.2047	-10.0763	1.1237e+00	8.1004e+00
120	IPW000003	-15.6468	-9.7968	-12.8213	1.1301e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-2.0346	2.4414e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.6478	2.8188e-01	2.0002e+00
123	IPW000006	-2.9297	-1.4648	-2.3717	3.4527e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0201	3.3994e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0149	2.7128e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0172	2.8370e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0174	4.1095e-03	0.0000e+00
128	IHT000001	-0.2494	-0.0541	-0.1736	9.6150e-02	4.1000e+00
129	IHT000002	-0.2847	-0.0894	-0.1372	8.4860e-02	4.1000e+00
130	IHT000003	-0.5247	0.0613	-0.2776	1.0378e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1721	6.9053e-02	4.1000e+00
132	IHT000005	-0.2800	-0.0847	-0.1126	6.9053e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0173	9.9303e-02	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.1039	7.5986e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1798	9.0949e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1880	4.7310e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1002	9.0949e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1079	7.9736e-02	4.1000e+00
139	IHT000012	-0.3128	-0.1175	-0.1892	9.5132e-02	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0418	9.3931e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1321	8.9148e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1483	9.8483e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1479	6.9053e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	-0.0279	2.2902e-01	4.1000e+00
145	IHT000018	0.2753	0.4706	0.3750	9.8648e-02	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0201	9.1305e-02	4.1000e+00
147	IHT000020	-0.2988	0.2872	-0.091	1.0092e-01	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3328	1.0044e-01	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1838	1.0076e-01	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1194	7.6412e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2375	8.4860e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0950	9.8648e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0717	9.5132e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1395	8.9148e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	-0.0092	9.7490e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1035	1.0378e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1034	8.3705e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0708	1.2594e-01	4.1000e+00
159	IHT000032	-0.1953	0.1953	0.0319	8.3122e-02	4.1000e+00
160	IHT000033	37.1294	37.5200	37.3725	9.3759e-02	4.1170e+00
161	IHT000034	-0.2753	0.3106	0.0356	1.1219e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.0909	1.1276e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0121	9.7656e-02	4.1000e+00

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Velocity 1 = 0.023201 (ft/sec)

Velocity 2 = 0.000100 (ft/sec)

Pressure Drop = 0.016701 (psi)

Tsat in = 0.010590 (deg F) Tsat out = 0.020599 (deg F)

Phi inner = 0.000300 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0061	0.0082
1	TRF000002	0.0264	0.0351
2	TFM000001	0.0528	0.0604
3	TIN000001	0.0277	0.0316
4	TRV000001	0.1072	0.1224
5	TSR000001	0.0663	0.0754
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0250	0.0287
8	TAO070136	0.0275	0.0311
9	TAO080136	0.0101	0.0115
10	TAO090136	0.0389	0.0443
11	TAO100136	0.0133	0.0151
12	TAO105136	0.0132	0.0149
13	EMPTY	0.0167	0.0407
14	TAO115136	0.0222	0.0253
15	EMPTY	0.0143	0.0381
16	TAO125136	0.0006	0.0007
17	TAO130136	0.0445	0.0506
18	EMPTY	0.0153	0.0371
19	TAO130048	0.0181	0.0206
20	TAO120224	0.0115	0.0131
21	EMPTY	0.0096	0.0247
22	TAO120312	0.0652	0.0742
23	TAO130312	0.0357	0.0408
24	EMPTY	0.0382	0.0971
25	TRT070000	0.0081	0.0092
26	TRT100000	0.0217	0.0246
27	TRT120000	0.0042	0.0048
28	TRT125000	0.0405	0.0459
29	EMPTY	0.0332	0.0839
30	EMPTY	0.0530	0.1336
31	TAF050136	0.0411	0.0467
32	TAF070136	0.0061	0.0069
33	TAF080136	0.0556	0.0631
34	TAF090136	0.0396	0.0448
35	TAF100136	0.0694	0.0790
36	TAF105136	0.0131	0.0149
37	TAF110136	0.0227	0.0258
38	TAF115136	0.0263	0.0297
39	TAF120136	0.0045	0.0051
40	TAF125136	0.0258	0.0292
41	TAF130136	0.0091	0.0103
42	TAF120048	0.0538	0.0608
43	TAF130048	0.0101	0.0115
44	TAF120224	0.0636	0.0721
45	TAF130224	0.0087	0.0099

#	Name	Abs Diff	%Diff
46	EMPTY	0.0496	0.1302
47	EMPTY	0.0100	0.0255
48	TAI130048	0.0325	0.0368
49	TAI130136	0.0120	0.0137
50	TAI130224	0.0300	0.0340
51	TAI130312	0.0246	0.0281
52	TRR130000	0.0132	0.0151
53	TSI000001	0.0395	0.0494
54	TSI000002	0.0070	0.0098
55	TSO000001	0.0293	0.0432
56	TSO000002	0.0633	0.0793
57	TAF020136	0.0876	0.0999
58	TAF120312	0.0073	0.0097
59	TAF130312	0.0078	0.0089
60	EMPTY	0.0001	0.0202
61	EMPTY	0.0002	0.0393
62	EMPTY	0.0004	0.0764
63	EMPTY	0.0004	0.0741
64	EMPTY	0.0004	0.1161
65	EMPTY	0.0004	0.1096
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0014	0.3510
68	EMPTY	0.0017	0.4122
69	EMPTY	0.0003	0.0698
70	EMPTY	0.0008	0.1795
71	EMPTY	0.0002	0.0426
72	EMPTY	0.0004	0.0827
73	EMPTY	0.0001	0.0199
74	EMPTY	0.0002	0.0386
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0000	0.0000
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0007	0.1182
79	EMPTY	0.0000	0.0000
80	PAN020136	0.3109	0.4444
81	PAN050136	0.3217	0.2265
82	PAN070136	0.0000	0.0000
83	PAN080136	0.0850	0.1925
84	PAN090136	0.1049	0.2363
85	PAN100136	0.0227	0.0489
86	PAN105136	0.1172	0.3856
87	PAN110136	0.0864	0.3187
88	PAN115136	0.2764	1.0565
89	PAN120136	0.0971	0.5186
90	PAN125136	0.1311	0.6590
91	PAN130136	0.1023	0.5676
92	PAN120048	0.0982	0.2256
93	PAN130048	0.0894	0.2180
94	PAN120224	0.0772	0.1678
95	PAN130224	0.1361	0.3353
96	PAN120312	0.0846	0.1856
97	PAN130312	0.1327	0.3361
98	PAB000136	0.0092	0.0166
99	PAB100136	0.0203	0.0520
100	PAB125136	0.0122	0.0352

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0044	0.0080
102	PRV000001	0.0144	0.0680
103	PSR000001	0.0119	0.0381
104	PFM000001	0.1873	0.1796
105	PAN000136	0.4633	0.0781
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0000	0.0000
108	EMPTY	0.1126	1.1496
109	EMPTY	0.0002	3.7736
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	5.1282
112	VPW000001	0.0044	0.5281
113	VPW000002	0.0000	0.0000
114	VPW000003	0.0306	4.0121
115	VPW000004	0.0195	3.2620
116	VPW000005	0.0167	1.2585
117	VPW000006	0.0109	0.7641
118	IPW000001	0.2048	2.1152
119	IPW000002	0.0406	0.4013
120	IPW000003	0.2165	1.7176
121	IPW000004	0.0991	5.1201
122	IPW000005	0.0893	2.3896
123	IPW000006	0.0475	2.0437
124	EMPTY	0.0008	3.8278
125	EMPTY	0.0011	7.9710
126	EMPTY	0.0015	8.0214
127	EMPTY	0.0014	8.7500
128	IHT000001	0.0094	5.1366
129	IHT000002	0.0147	9.6774
130	IHT000003	0.0224	8.7774
131	IHT000004	0.0045	2.5481
132	IHT000005	0.0045	4.1628
133	IHT000006	0.0027	13.5000
134	IHT000007	0.0044	4.4221
135	IHT000008	0.0051	2.9193
136	IHT000009	0.0114	6.4553
137	IHT000010	0.0051	4.8433
138	IHT000011	0.0045	4.3520
139	IHT000012	0.0170	9.8722
140	IHT000013	0.0026	5.8559
141	IHT000014	0.0045	3.2943
142	IHT000015	0.0333	28.9565
143	IHT000016	0.0073	4.7036
144	IHT000017	0.0045	19.2308
145	IHT000018	0.0097	2.5214
146	IHT000019	0.0043	17.6230
147	IHT000020	0.0119	11.5087
148	IHT000021	0.0072	0.2165
149	IHT000022	0.0143	7.2186
150	IHT000023	0.0164	12.0766
151	IHT000024	0.0069	2.9922
152	IHT000025	0.0177	22.8978
153	IHT000026	0.0025	3.3693
154	IHT000027	0.0067	5.0452
155	IHT000028	0.0047	104.4445

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0323	23.7850
157	IHT000030	0.0002	0.1931
158	IHT000031	0.0086	10.8312
159	IHT000032	0.0189	37.2047
160	IHT000033	0.0069	0.0185
161	IHT000034	0.0023	6.9069
162	IHT000035	0.0022	2.3631
163	IHT000036	0.0123	50.4098

Velocity 1 = 23.8713 (ft/sec) (+/- 3.4824 %)
 Velocity 2 = 13.2405 (ft/sec) (+/- 3.4867 %)
 Pressure drop = 17.5812 (psi)
 Tsat in = 281.9194 (deg F) Tsat out = 257.2152 (deg F)
 Phi inner = 0.0057 (kBtu/hr-ft2) (+/- 117.0587 %)
 Phi outer = 0.0080 (kBtu/hr-ft2) (+/- 119.4874 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5493	1.6650e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1423	1.2787e-01	1.9000e+00
2	TFM000001	86.0328	87.2903	86.5233	2.8745e-01	1.9002e+00
3	TIN000001	86.4155	87.5712	86.9411	2.9406e-01	1.9002e+00
4	TRV000001	85.3752	87.5705	86.1786	6.5724e-01	1.9002e+00
5	TSR000001	87.5560	88.6014	88.0285	2.5609e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.2418	87.0784	86.6939	1.9307e-01	1.9002e+00
8	TAO070136	87.6338	88.4756	88.0295	2.1410e-01	1.9002e+00
9	TAO080136	87.3188	88.1549	87.6783	1.9131e-01	1.9002e+00
10	TAO090136	87.0881	87.9260	87.4986	2.0054e-01	1.9002e+00
11	TAO100136	87.3991	88.1329	87.7178	1.7197e-01	1.9002e+00
12	TAO105136	87.6514	88.4908	87.9872	2.0658e-01	1.9002e+00
13	EMPTY	40.7527	41.2111	41.0599	1.1905e-01	1.9011e+00
14	TAO115136	86.7546	87.8065	87.2683	2.1424e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5466	4.5533e-02	1.9009e+00
16	TAO125136	87.1915	88.1334	87.6016	1.7035e-01	1.9002e+00
17	TAO130136	87.2486	87.8748	87.5488	1.5259e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2799	1.0607e-01	1.9011e+00
19	TAO130048	87.2564	87.9891	87.5703	1.5548e-01	1.9002e+00
20	TAO120224	86.9567	87.7950	87.3132	1.8705e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8938	1.0634e-01	1.9010e+00
22	TAO120312	87.1311	88.1797	87.5338	2.0032e-01	1.9002e+00
23	TAO130312	86.8201	87.6579	87.1845	1.9301e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3485	1.7750e-01	1.9010e+00
25	TRT070000	87.0269	87.7650	87.3442	1.6750e-01	1.9002e+00
26	TRT100000	87.6336	88.3663	87.9976	1.7973e-01	1.9002e+00
27	TRT120000	87.4390	88.2771	87.7407	1.7285e-01	1.9002e+00
28	TRT125000	87.3139	88.1486	87.7810	1.8985e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5552	1.1632e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7020	2.0260e-01	1.9011e+00
31	TAF050136	87.0602	87.8965	87.4951	1.8946e-01	1.9002e+00
32	TAF070136	87.6567	88.5945	88.1696	2.0179e-01	1.9002e+00
33	TAF080136	87.1631	87.8939	87.4758	1.9542e-01	1.9002e+00
34	TAF090136	87.3364	88.3837	87.8854	2.5529e-01	1.9002e+00
35	TAF100136	87.0003	87.9450	87.3196	2.0334e-01	1.9002e+00
36	TAF105136	87.1734	88.1122	87.6110	2.3061e-01	1.9002e+00
37	TAF110136	87.0669	87.7994	87.3806	1.6097e-01	1.9002e+00
38	TAF115136	87.3241	88.4759	87.9314	2.2977e-01	1.9002e+00
39	TAF120136	87.3148	87.8383	87.5532	1.5107e-01	1.9002e+00
40	TAF125136	87.3808	88.2151	87.8104	1.9175e-01	1.9002e+00
41	TAF130136	87.2848	88.1230	87.6117	1.7540e-01	1.9002e+00
42	TAF120048	87.3988	88.5580	87.9474	2.3231e-01	1.9002e+00
43	TAF130048	87.2082	87.7328	87.4097	1.4809e-01	1.9002e+00
44	TAF120224	87.2185	88.1618	87.6378	2.2705e-01	1.9002e+00
45	TAF130224	86.6371	87.3745	87.0752	1.6241e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0802	2.2641e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1694	6.9589e-02	1.9010e+00
48	TAI130048	87.2997	88.5576	87.8155	3.4072e-01	1.9002e+00
49	TAI130136	86.8219	87.8688	87.2702	2.1143e-01	1.9002e+00
50	TAI130224	87.0581	88.4238	87.8779	3.0316e-01	1.9002e+00
51	TAI130312	86.7755	87.6157	87.2922	2.0760e-01	1.9002e+00
52	TRR130000	86.4443	87.3868	87.0220	2.0643e-01	1.9002e+00
53	TSI000001	79.7239	80.3565	79.9474	1.5014e-01	1.9001e+00
54	TSI000002	70.5115	71.6793	71.1017	2.7893e-01	1.9000e+00
55	TSO000001	67.3401	68.0888	67.7635	1.8066e-01	1.9000e+00
56	TSO000002	79.6847	80.5290	80.0349	1.8762e-01	1.9001e+00
57	TAF020136	86.5599	87.5094	87.0070	2.0825e-01	1.9002e+00
58	TAF120312	74.7452	75.8042	75.2027	2.8015e-01	1.9000e+00
59	TAF130312	86.5110	87.2451	86.8884	2.0417e-01	1.9002e+00
60	EMPTY	0.4736	0.4883	0.4821	3.3901e-03	0.0000e+00
61	EMPTY	0.4932	0.5029	0.4973	3.4681e-03	0.0000e+00
62	EMPTY	0.5029	0.5176	0.5109	3.0819e-03	0.0000e+00
63	EMPTY	0.5225	0.5322	0.5278	3.3087e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3377	1.8082e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3578	2.2146e-03	0.0000e+00
66	EMPTY	0.3711	0.3760	0.3750	1.9730e-03	0.0000e+00
67	EMPTY	0.3906	0.3955	0.3920	2.2146e-03	0.0000e+00
68	EMPTY	0.4053	0.4102	0.4058	1.4797e-03	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4249	6.9053e-04	0.0000e+00
70	EMPTY	0.4395	0.4443	0.4407	2.1635e-03	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4641	9.6655e-04	0.0000e+00
72	EMPTY	0.4736	0.4834	0.4786	1.2041e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4978	1.1714e-03	0.0000e+00
74	EMPTY	0.5127	0.5176	0.5130	1.1714e-03	0.0000e+00
75	EMPTY	0.5273	0.5371	0.5311	2.3261e-03	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5457	2.1065e-03	0.0000e+00
77	EMPTY	0.5615	0.5713	0.5652	2.3261e-03	0.0000e+00
78	EMPTY	0.5859	0.5908	0.5881	2.4484e-03	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6101	1.1714e-03	0.0000e+00
80	PAN020136	56.7129	59.6884	58.4951	7.6554e-01	8.8220e-01
81	PAN050136	114.4753	116.1537	115.2474	3.9407e-01	1.7045e+00
82	PAN070136	83.2487	84.9272	84.0849	3.3521e-01	8.9504e-01
83	PAN080136	35.9551	36.7944	36.3870	2.1280e-01	8.7474e-01
84	PAN090136	35.8114	36.8032	36.3623	2.4676e-01	8.7474e-01
85	PAN100136	37.8288	38.7443	38.2835	2.2493e-01	8.7525e-01
86	PAN105136	25.0281	25.7148	25.3226	1.4785e-01	8.7230e-01
87	PAN110136	22.2699	22.8039	22.5293	1.1739e-01	8.7182e-01
88	PAN115136	20.5577	21.7784	21.0063	2.5822e-01	8.7158e-01
89	PAN120136	15.0366	15.8759	15.4608	1.9628e-01	8.7086e-01
90	PAN125136	15.8684	16.4788	16.0470	1.3403e-01	8.7092e-01
91	PAN130136	14.8458	15.2273	15.0167	9.0614e-02	8.7081e-01
92	PAN120048	35.2143	35.8246	35.4904	1.3516e-01	8.7451e-01
93	PAN130048	33.1924	33.7265	33.4106	1.3873e-01	8.7400e-01
94	PAN120224	37.1333	37.8962	37.4644	1.4913e-01	8.7503e-01
95	PAN130224	32.8359	33.5226	33.1014	1.3010e-01	8.7393e-01
96	PAN120312	36.9250	37.8405	37.2790	1.8545e-01	8.7498e-01
97	PAN130312	31.8705	32.4046	32.0537	1.2427e-01	8.7368e-01
98	PAB000136	50.6806	51.0010	50.8133	7.6403e-02	5.9375e-01
99	PAB100136	37.1801	37.3632	37.2735	5.2283e-02	5.8744e-01
100	PAB125136	33.6069	33.7442	33.6874	3.7635e-02	5.8608e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	50.1515	50.7619	50.5006	1.1830e-01	7.6055e-01
102	PRV000001	21.1481	21.2702	21.1871	5.7521e-02	7.5187e-01
103	PSR000001	30.6954	30.8175	30.8102	2.9284e-02	7.5394e-01
104	PFM000001	88.4259	89.6161	89.0247	2.8307e-01	5.4730e-01
105	PAN000136	483.1175	489.0684	486.7430	1.3171e+00	5.0682e+00
106	PFM000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0090	1.8082e-03	0.0000e+00
108	EMPTY	-10.0000	-8.9941	-9.7826	2.9559e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0024	2.4662e-03	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8722	7.7324e-02	8.1002e-01
113	VPW000002	-0.9812	-0.5906	-0.7430	9.0756e-02	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7705	1.1027e-01	8.1001e-01
115	VPW000004	-0.8166	-0.4259	-0.5861	1.0942e-01	8.1001e-01
116	VPW000005	-1.6825	-1.2919	-1.4052	1.0507e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.3797	8.7880e-02	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.7602	1.1627e+00	8.1004e+00
119	IPW000002	-12.1072	-6.2534	-10.5852	1.3246e+00	8.1004e+00
120	IPW000003	-15.6468	-9.7968	-12.9558	1.3001e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9355	2.6853e-01	2.0001e+00
122	IPW000005	-4.2058	-2.7411	-3.7078	3.4860e-01	2.0002e+00
123	IPW000006	-2.9297	-1.9531	-2.4219	3.5513e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0208	2.9280e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.5515e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0174	2.6396e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0155	3.3728e-03	0.0000e+00
128	IHT000001	-0.2494	-0.0541	-0.1634	9.7935e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1480	9.8648e-02	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2591	1.0259e-01	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1727	7.9017e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1355	9.5112e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0083	9.5112e-02	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0878	6.7888e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1591	7.8918e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1922	5.5243e-02	4.1000e+00
137	IHT000010	-0.1600	0.2306	-0.0975	1.0014e-01	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1034	8.4997e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1527	8.5454e-02	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0327	9.8648e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1209	1.0440e-01	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1384	9.8569e-02	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1278	6.7888e-02	4.1000e+00
144	IHT000017	-0.3906	0.5859	-0.0117	2.4135e-01	4.1000e+00
145	IHT000018	0.0800	0.6659	0.3847	1.1272e-01	4.1000e+00
146	IHT000019	-0.2353	0.3506	-0.0322	7.8523e-02	4.1000e+00
147	IHT000020	-0.2988	0.2872	-0.0956	1.0410e-01	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3295	9.4125e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1825	1.0014e-01	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1163	8.8233e-02	4.1000e+00
151	IHT000024	-0.4806	0.1053	-0.2423	9.8963e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0891	9.8569e-02	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0742	1.0358e-01	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1328	9.2034e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0150	1.0320e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1202	1.0206e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.0997	9.5357e-02	4.1000e+00
158	IHT000031	-0.0847	0.5013	0.0833	1.3093e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0508	8.6541e-02	4.1000e+00
160	IHT000033	37.1294	37.5200	37.3677	9.0756e-02	4.1170e+00
161	IHT000034	-0.0800	0.1153	0.0137	9.8569e-02	4.1000e+00
162	IHT000035	-0.1881	0.2025	0.0658	1.0625e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0244	1.1049e-01	4.1000e+00

Velocity 1 = 23.8845 (ft/sec) (+/- 3.4823 %)
 Velocity 2 = 13.2407 (ft/sec) (+/- 3.4867 %)
 Pressure drop = 17.6301 (psi)
 Tsat in = 281.9492 (deg F) Tsat out = 257.2164 (deg F)
 Phi inner = 0.0057 (kBtu/hr-ft2) (+/- 117.0023 %)
 Phi outer = 0.0078 (kBtu/hr-ft2) (+/- 120.6192 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5481	1.5027e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1594	1.0536e-01	1.9000e+00
2	TFM000001	85.9281	87.2903	86.6786	3.3689e-01	1.9002e+00
3	TIN000001	86.2053	87.5712	87.0182	4.1243e-01	1.9002e+00
4	TRV000001	85.4795	87.4653	86.6493	5.2640e-01	1.9002e+00
5	TSR000001	87.5560	88.4963	88.0210	2.8604e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	85.8239	87.4970	86.7030	4.6384e-01	1.9002e+00
8	TAO070136	87.1078	88.7914	88.1127	4.5373e-01	1.9002e+00
9	TAO080136	86.9019	88.3631	87.7026	3.9937e-01	1.9002e+00
10	TAO090136	86.6695	88.1351	87.5026	4.4130e-01	1.9002e+00
11	TAO100136	86.8754	88.3422	87.7221	4.0277e-01	1.9002e+00
12	TAO105136	87.1270	88.5954	88.0218	4.0517e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0428	1.0224e-01	1.9011e+00
14	TAO115136	86.5440	88.0169	87.3367	4.2643e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5562	6.3635e-02	1.9009e+00
16	TAO125136	86.8776	88.1334	87.6249	4.0209e-01	1.9002e+00
17	TAO130136	86.8355	88.2876	87.5844	3.9058e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2486	9.7518e-02	1.9011e+00
19	TAO130048	86.7337	88.1979	87.6129	4.0748e-01	1.9002e+00
20	TAO120224	86.6423	87.7955	87.3011	3.8679e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8933	1.2622e-01	1.9010e+00
22	TAO120312	86.7115	88.1797	87.5205	4.0898e-01	1.9002e+00
23	TAO130312	86.4018	87.8669	87.1877	4.2540e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3011	1.8974e-01	1.9010e+00
25	TRT070000	86.6052	87.9774	87.3829	4.1869e-01	1.9002e+00
26	TRT100000	87.2155	88.7840	88.0200	3.9863e-01	1.9002e+00
27	TRT120000	87.0201	88.2771	87.7511	3.8083e-01	1.9002e+00
28	TRT125000	87.0010	88.3567	87.8011	3.9904e-01	1.9002e+00
29	EMPTY	39.3761	39.6057	39.5635	8.9819e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6806	1.8967e-01	1.9011e+00
31	TAF050136	86.7465	88.0016	87.5274	3.9897e-01	1.9002e+00
32	TAF070136	87.3437	88.8041	88.2629	4.0713e-01	1.9002e+00
33	TAF080136	86.6423	88.1017	87.5649	4.1017e-01	1.9002e+00
34	TAF090136	87.0222	88.8022	87.9819	4.8469e-01	1.9002e+00
35	TAF100136	86.4756	88.1548	87.3539	4.4208e-01	1.9002e+00
36	TAF105136	86.6526	88.3182	87.7027	4.3250e-01	1.9002e+00
37	TAF110136	86.4403	88.0081	87.4189	4.2936e-01	1.9002e+00
38	TAF115136	87.0101	88.6850	87.9800	4.7074e-01	1.9002e+00
39	TAF120136	86.7929	88.2552	87.6324	4.3062e-01	1.9002e+00
40	TAF125136	86.9642	88.5267	87.8510	4.1290e-01	1.9002e+00
41	TAF130136	86.8659	88.1230	87.6568	4.2748e-01	1.9002e+00
42	TAF120048	86.9764	88.7703	88.0124	4.7220e-01	1.9002e+00
43	TAF130048	86.6840	88.1519	87.4415	4.3875e-01	1.9002e+00
44	TAF120224	86.6947	88.4754	87.6698	4.8723e-01	1.9002e+00
45	TAF130224	86.3209	87.7951	87.1507	4.4342e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1100	2.1053e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1746	7.6055e-02	1.9010e+00
48	TAI130048	86.8803	88.7670	87.9671	4.6473e-01	1.9002e+00
49	TAI130136	86.4043	87.9725	87.3092	4.6568e-01	1.9002e+00
50	TAI130224	86.8479	88.8438	87.8624	4.4185e-01	1.9002e+00
51	TAI130312	86.5654	87.9302	87.2834	3.7994e-01	1.9002e+00
52	TRR130000	86.0258	87.4907	87.0018	3.2836e-01	1.9002e+00
53	TSI000001	79.7239	80.2508	79.9649	1.3779e-01	1.9001e+00
54	TSI000002	70.4054	71.5733	71.0229	2.5877e-01	1.9000e+00
55	TSO000001	67.3401	68.1962	67.7983	1.8137e-01	1.9000e+00
56	TSO000002	79.6843	80.5290	80.0700	1.7840e-01	1.9001e+00
57	TAF020136	86.2434	87.7205	87.0569	4.2279e-01	1.9002e+00
58	TAF120312	74.7448	75.5926	75.2034	2.4493e-01	1.9000e+00
59	TAF130312	85.9871	87.6638	86.9580	4.5351e-01	1.9002e+00
60	EMPTY	0.4688	0.4932	0.4830	9.9089e-03	0.0000e+00
61	EMPTY	0.4834	0.5078	0.4979	1.0237e-02	0.0000e+00
62	EMPTY	0.4980	0.5225	0.5121	9.8986e-03	0.0000e+00
63	EMPTY	0.5127	0.5371	0.5281	1.0278e-02	0.0000e+00
64	EMPTY	0.3320	0.3418	0.3385	4.6094e-03	0.0000e+00
65	EMPTY	0.3516	0.3613	0.3582	4.5340e-03	0.0000e+00
66	EMPTY	0.3662	0.3760	0.3731	4.3352e-03	0.0000e+00
67	EMPTY	0.3857	0.3955	0.3924	4.5340e-03	0.0000e+00
68	EMPTY	0.4004	0.4102	0.4070	4.6270e-03	0.0000e+00
69	EMPTY	0.4199	0.4346	0.4253	4.3724e-03	0.0000e+00
70	EMPTY	0.4346	0.4443	0.4411	4.6270e-03	0.0000e+00
71	EMPTY	0.4541	0.4688	0.4650	4.7030e-03	0.0000e+00
72	EMPTY	0.4736	0.4883	0.4793	4.4959e-03	0.0000e+00
73	EMPTY	0.4883	0.5029	0.4978	4.5630e-03	0.0000e+00
74	EMPTY	0.5078	0.5176	0.5136	4.4208e-03	0.0000e+00
75	EMPTY	0.5225	0.5322	0.5297	3.8759e-03	0.0000e+00
76	EMPTY	0.5371	0.5518	0.5451	3.9485e-03	0.0000e+00
77	EMPTY	0.5566	0.5713	0.5641	3.8733e-03	0.0000e+00
78	EMPTY	0.5811	0.5908	0.5877	4.5340e-03	0.0000e+00
79	EMPTY	0.6006	0.6152	0.6099	4.1390e-03	0.0000e+00
80	PAN020136	56.4840	60.1461	58.7915	8.6394e-01	8.8233e-01
81	PAN050136	114.6279	116.3063	115.2289	3.6907e-01	1.7045e+00
82	PAN070136	83.6302	85.3087	84.3215	3.6834e-01	8.9517e-01
83	PAN080136	35.9551	36.9470	36.5842	2.2053e-01	8.7479e-01
84	PAN090136	36.1166	36.9558	36.5385	2.0725e-01	8.7478e-01
85	PAN100136	37.5999	38.6680	38.2056	2.4147e-01	8.7523e-01
86	PAN105136	25.1807	26.0963	25.5684	1.9565e-01	8.7235e-01
87	PAN110136	22.3462	22.8039	22.6482	9.8445e-02	8.7184e-01
88	PAN115136	20.0999	21.6258	20.7492	3.0203e-01	8.7155e-01
89	PAN120136	15.1892	15.8759	15.5520	1.5459e-01	8.7087e-01
90	PAN125136	15.6396	16.3262	15.9494	1.5291e-01	8.7091e-01
91	PAN130136	14.8458	15.3799	15.1074	1.0212e-01	8.7082e-01
92	PAN120048	35.2143	35.8246	35.5054	1.1929e-01	8.7452e-01
93	PAN130048	33.1924	33.6502	33.3668	1.2842e-01	8.7399e-01
94	PAN120224	37.0570	37.8199	37.4556	1.7360e-01	8.7502e-01
95	PAN130224	32.9359	33.4463	33.0492	1.4186e-01	8.7391e-01
96	PAN120312	36.6961	37.6879	37.2410	1.9883e-01	8.7497e-01
97	PAN130312	31.7180	32.4809	32.0200	1.6770e-01	8.7367e-01
98	PAB000136	50.6348	51.0468	50.8375	8.8646e-02	5.9376e-01
99	PAB100136	37.1801	37.3632	37.2764	4.7869e-02	5.8744e-01
100	PAB125136	33.6069	33.7900	33.6881	4.3090e-02	5.8608e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	50.2736	50.8839	50.5576	1.5638e-01	7.6058e-01
102	PRV000001	21.1481	21.2702	21.1904	5.8707e-02	7.5187e-01
103	PSR000001	30.6954	30.8175	30.8075	3.3770e-02	7.5394e-01
104	PFM000001	87.8766	89.9823	89.1210	4.5120e-01	5.4739e-01
105	PAN000136	485.8641	491.3572	488.0968	1.4190e+00	5.0691e+00
106	PFM000002	27.2165	27.2165	27.2165	1.1563e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0093	1.4934e-03	0.0000e+00
108	EMPTY	-10.0000	-8.3154	-9.7951	3.6176e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0024	2.4662e-03	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8486	9.7323e-02	8.1002e-01
113	VPW000002	-0.9812	-0.5906	-0.7541	9.2189e-02	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7734	1.1644e-01	8.1001e-01
115	VPW000004	-0.8166	-0.2306	-0.5734	1.1644e-01	8.1001e-01
116	VPW000005	-1.4872	-1.0966	-1.3875	1.1362e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.3759	1.3514e-01	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.4884	1.0513e+00	8.1003e+00
119	IPW000002	-14.0585	-8.2047	-10.2356	1.5405e+00	8.1004e+00
120	IPW000003	-15.6468	-9.7968	-12.8611	1.1941e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9549	2.5391e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.7774	2.9281e-01	2.0002e+00
123	IPW000006	-2.9297	-1.9531	-2.4215	3.2995e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0205	3.1486e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	2.6865e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0187	3.2061e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.5625e-03	0.0000e+00
128	IHT000001	-0.2494	-0.0541	-0.1936	8.9148e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1532	1.0836e-01	4.1000e+00
130	IHT000003	-0.3294	-0.1341	-0.2576	9.5132e-02	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1841	5.4032e-02	4.1000e+00
132	IHT000005	-0.2800	-0.0847	-0.1325	8.4860e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0292	1.0315e-01	4.1000e+00
134	IHT000007	-0.2753	-0.0800	-0.1039	6.4688e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1599	7.9532e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1761	6.4688e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1122	8.4860e-02	4.1000e+00
138	IHT000011	-0.2753	-0.0800	-0.1398	9.0949e-02	4.1000e+00
139	IHT000012	-0.3128	-0.1175	-0.1773	9.0949e-02	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0339	9.0949e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1361	7.5986e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1404	9.8648e-02	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1479	7.9736e-02	4.1000e+00
144	IHT000017	-0.3906	0.1953	-0.0359	1.7683e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3829	1.0594e-01	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0121	6.9053e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0875	1.1161e-01	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3607	9.3412e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1758	8.9148e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1234	8.3122e-02	4.1000e+00
151	IHT000024	-0.4806	-0.0900	-0.2455	8.8965e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0950	9.8648e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0638	9.2540e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1276	9.3931e-02	4.1000e+00
155	IHT000028	-0.1647	0.0306	-0.0292	9.0949e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.1553	0.0995	8.9148e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.0834	1.0044e-01	4.1000e+00
158	IHT000031	-0.2800	0.3059	0.0508	1.2735e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0438	8.2338e-02	4.1000e+00
160	IHT000033	37.1294	37.5200	37.3765	9.5812e-02	4.1170e+00
161	IHT000034	-0.2753	0.1153	0.0157	1.0640e-01	4.1000e+00
162	IHT000035	-0.1881	0.2025	0.0829	1.0409e-01	4.1000e+00
163	IHT000036	-0.2353	0.3506	-0.0041	1.1044e-01	4.1000e+00

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Velocity 1 = 0.013201 (ft/sec)

Velocity 2 = 0.000199 (ft/sec)

Pressure Drop = 0.048901 (psi)

Tsat in = 0.029785 (deg F) Tsat out = 0.001190 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000200 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0012	0.0016
1	TRF000002	0.0171	0.0228
2	TFM000001	0.1553	0.1795
3	TIN000001	0.0771	0.0887
4	TRV000001	0.4707	0.5462
5	TSR000001	0.0075	0.0085
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0091	0.0105
8	TAO070136	0.0832	0.0945
9	TAO080136	0.0243	0.0277
10	TAO090136	0.0040	0.0046
11	TAO100136	0.0043	0.0049
12	TAO105136	0.0346	0.0393
13	EMPTY	0.0171	0.0416
14	TAO115136	0.0684	0.0784
15	EMPTY	0.0096	0.0256
16	TAO125136	0.0233	0.0266
17	TAO130136	0.0356	0.0407
18	EMPTY	0.0313	0.0758
19	TAO130048	0.0426	0.0486
20	TAO120224	0.0121	0.0139
21	EMPTY	0.0005	0.0013
22	TAO120312	0.0133	0.0152
23	TAO130312	0.0032	0.0037
24	EMPTY	0.0474	0.1205
25	TRT070000	0.0387	0.0443
26	TRT100000	0.0224	0.0255
27	TRT120000	0.0104	0.0119
28	TRT125000	0.0201	0.0229
29	EMPTY	0.0083	0.0210
30	EMPTY	0.0214	0.0539
31	TAF050136	0.0323	0.0369
32	TAF070136	0.0933	0.1058
33	TAF080136	0.0891	0.1019
34	TAF090136	0.0965	0.1098
35	TAF100136	0.0343	0.0393
36	TAF105136	0.0917	0.1047
37	TAF110136	0.0383	0.0438
38	TAF115136	0.0486	0.0553
39	TAF120136	0.0792	0.0905
40	TAF125136	0.0406	0.0462
41	TAF130136	0.0451	0.0515
42	TAF120048	0.0650	0.0739
43	TAF130048	0.0318	0.0364
44	TAF120224	0.0320	0.0365
45	TAF130224	0.0755	0.0867

#	Name	Abs Diff	%Diff
46	EMPTY	0.0298	0.0783
47	EMPTY	0.0052	0.0133
48	TAI130048	0.1516	0.1726
49	TAI130136	0.0390	0.0447
50	TAI130224	0.0155	0.0176
51	TAI130312	0.0088	0.0101
52	TRR130000	0.0202	0.0232
53	TSI000001	0.0175	0.0219
54	TSI000002	0.0788	0.1108
55	TSO000001	0.0348	0.0514
56	TSO000002	0.0351	0.0439
57	TAF020136	0.0499	0.0573
58	TAF120312	0.0007	0.0009
59	TAF130312	0.0696	0.0801
60	EMPTY	0.0009	0.1867
61	EMPTY	0.0006	0.1207
62	EMPTY	0.0012	0.2349
63	EMPTY	0.0003	0.0568
64	EMPTY	0.0008	0.2369
65	EMPTY	0.0004	0.1118
66	EMPTY	0.0019	0.5067
67	EMPTY	0.0004	0.1020
68	EMPTY	0.0012	0.2957
69	EMPTY	0.0004	0.0941
70	EMPTY	0.0004	0.0908
71	EMPTY	0.0009	0.1939
72	EMPTY	0.0007	0.1463
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0006	0.1170
75	EMPTY	0.0014	0.2636
76	EMPTY	0.0006	0.1100
77	EMPTY	0.0011	0.1946
78	EMPTY	0.0004	0.0680
79	EMPTY	0.0002	0.0328
80	PAN020136	0.2964	0.5067
81	PAN050136	0.0185	0.0161
82	PAN070136	0.2366	0.2814
83	PAN080136	0.1972	0.5420
84	PAN090136	0.1762	0.4846
85	PAN100136	0.0779	0.2035
86	PAN105136	0.2458	0.9707
87	PAN110136	0.1189	0.5278
88	PAN115136	0.2571	1.2239
89	PAN120136	0.0912	0.5899
90	PAN125136	0.0976	0.6082
91	PAN130136	0.0907	0.6040
92	PAN120048	0.0150	0.0423
93	PAN130048	0.0438	0.1311
94	PAN120224	0.0088	0.0235
95	PAN130224	0.0522	0.1577
96	PAN120312	0.0380	0.1019
97	PAN130312	0.0337	0.1051
98	PAB000136	0.0242	0.0476
99	PAB100136	0.0029	0.0078
100	PAB125136	0.0007	0.0021

Test: Jan31_02

dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0570	0.1129
102	PRV000001	0.0033	0.0156
103	PSR000001	0.0027	0.0088
104	PFM000001	0.0963	0.1082
105	PAN000136	1.3538	0.2781
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0003	3.3333
108	EMPTY	0.0125	0.1278
109	EMPTY	0.0002	3.9216
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0236	2.7058
113	VPW000002	0.0111	1.4940
114	VPW000003	0.0029	0.3764
115	VPW000004	0.0127	2.1669
116	VPW000005	0.0177	1.2596
117	VPW000006	0.0038	0.2754
118	IPW000001	0.2718	2.7848
119	IPW000002	0.3496	3.3027
120	IPW000003	0.0947	0.7309
121	IPW000004	0.0194	1.0023
122	IPW000005	0.0696	1.8771
123	IPW000006	0.0004	0.0165
124	EMPTY	0.0003	1.4423
125	EMPTY	0.0002	1.4493
126	EMPTY	0.0013	7.4713
127	EMPTY	0.0004	2.5807
128	IHT000001	0.0302	18.4823
129	IHT000002	0.0052	3.5135
130	IHT000003	0.0015	0.5789
131	IHT000004	0.0114	6.6010
132	IHT000005	0.0030	2.2140
133	IHT000006	0.0209	251.8072
134	IHT000007	0.0161	18.3371
135	IHT000008	0.0008	0.5028
136	IHT000009	0.0161	8.3767
137	IHT000010	0.0147	15.0769
138	IHT000011	0.0364	35.2031
139	IHT000012	0.0246	16.1100
140	IHT000013	0.0012	3.6697
141	IHT000014	0.0152	12.5724
142	IHT000015	0.0020	1.4451
143	IHT000016	0.0201	15.7277
144	IHT000017	0.0242	206.8376
145	IHT000018	0.0018	0.4679
146	IHT000019	0.0201	62.4224
147	IHT000020	0.0081	8.4728
148	IHT000021	0.0312	0.9371
149	IHT000022	0.0067	3.6712
150	IHT000023	0.0071	6.1049
151	IHT000024	0.0032	1.3207
152	IHT000025	0.0059	6.6218
153	IHT000026	0.0104	14.0162
154	IHT000027	0.0052	3.9157
155	IHT000028	0.0442	294.6667

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0207	17.2213
157	IHT000030	0.0163	16.3490
158	IHT000031	0.0325	39.0156
159	IHT000032	0.0070	13.7795
160	IHT000033	0.0088	0.0236
161	IHT000034	0.0020	14.5985
162	IHT000035	0.0171	25.9878
163	IHT000036	0.0203	83.1967

Test: Jan31_03

sum1

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Velocity 1 = 22.0243 (ft/sec) (+/- 3.4867 %)
 Velocity 2 = 13.2409 (ft/sec) (+/- 3.4867 %)
 Pressure drop = 14.2177 (psi)
 Tsat in = 276.8835 (deg F) Tsat out = 255.9640 (deg F)
 Phi inner = 0.0056 (kBtu/hr-ft2) (+/- 118.8403 %)
 Phi outer = 0.0076 (kBtu/hr-ft2) (+/- 121.8712 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5111	1.5003e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1465	1.4480e-01	1.9000e+00
2	TFM000001	86.5559	87.3944	86.9336	1.8939e-01	1.9002e+00
3	TIN000001	86.8362	87.6761	87.2563	1.6703e-01	1.9002e+00
4	TRV000001	86.9429	87.6751	87.3070	1.8687e-01	1.9002e+00
5	TSR000001	87.7647	88.2882	88.0033	1.5099e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.2418	86.9747	86.5434	1.6054e-01	1.9002e+00
8	TAO070136	87.4240	88.4756	87.9538	2.0474e-01	1.9002e+00
9	TAO080136	87.2136	87.8420	87.5281	1.6230e-01	1.9002e+00
10	TAO090136	86.7736	87.8209	87.3521	2.1395e-01	1.9002e+00
11	TAO100136	87.1893	87.8189	87.5586	1.5883e-01	1.9002e+00
12	TAO105136	87.4415	88.2806	87.8025	1.8248e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0920	1.1567e-01	1.9011e+00
14	TAO115136	86.6492	87.3856	87.0536	1.8570e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5743	8.5185e-02	1.9010e+00
16	TAO125136	87.0868	87.7154	87.3925	1.6371e-01	1.9002e+00
17	TAO130136	86.9369	87.7697	87.3254	1.8326e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2707	1.0152e-01	1.9011e+00
19	TAO130048	87.0465	87.6756	87.3738	1.5637e-01	1.9002e+00
20	TAO120224	86.7467	87.3765	87.0700	1.5976e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8892	1.3642e-01	1.9010e+00
22	TAO120312	86.9213	87.6553	87.3282	1.6502e-01	1.9002e+00
23	TAO130312	86.7149	87.3438	87.0088	1.4967e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3393	1.6309e-01	1.9010e+00
25	TRT070000	86.8178	87.4506	87.2049	1.7719e-01	1.9002e+00
26	TRT100000	87.4251	88.2612	87.8136	1.9151e-01	1.9002e+00
27	TRT120000	87.1244	87.8585	87.5606	1.5472e-01	1.9002e+00
28	TRT125000	87.1041	87.9405	87.5643	1.9773e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5781	9.9904e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6883	2.2122e-01	1.9011e+00
31	TAF050136	87.1644	87.8965	87.5159	1.6472e-01	1.9002e+00
32	TAF070136	87.6567	88.5960	88.1611	1.9594e-01	1.9002e+00
33	TAF080136	87.1612	87.7892	87.4964	1.5509e-01	1.9002e+00
34	TAF090136	87.2313	88.2790	87.7973	2.3278e-01	1.9002e+00
35	TAF100136	87.0003	87.6305	87.3531	1.9406e-01	1.9002e+00
36	TAF105136	87.0687	88.0076	87.5983	2.4536e-01	1.9002e+00
37	TAF110136	87.0658	87.6947	87.3387	1.3875e-01	1.9002e+00
38	TAF115136	87.5339	88.2668	87.8769	1.7060e-01	1.9002e+00
39	TAF120136	87.2101	87.7336	87.5197	1.4338e-01	1.9002e+00
40	TAF125136	87.3808	88.1121	87.7478	1.7939e-01	1.9002e+00
41	TAF130136	87.1796	87.8091	87.5614	1.5954e-01	1.9002e+00
42	TAF120048	87.3993	88.3483	87.8885	1.9707e-01	1.9002e+00
43	TAF130048	86.9983	87.6281	87.3635	1.3610e-01	1.9002e+00
44	TAF120224	87.0086	88.0567	87.5832	2.2922e-01	1.9002e+00
45	TAF130224	86.6376	87.2689	87.0457	1.5847e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1308	2.1831e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1740	8.8515e-02	1.9010e+00
48	TAI130048	87.1951	88.3481	87.7358	2.4911e-01	1.9002e+00
49	TAI130136	86.6133	87.4511	87.1197	1.9304e-01	1.9002e+00
50	TAI130224	87.1637	88.3187	87.7014	2.8126e-01	1.9002e+00
51	TAI130312	86.7755	87.4058	87.1115	1.8969e-01	1.9002e+00
52	TRR130000	86.3395	87.4907	86.9257	2.2480e-01	1.9002e+00
53	TSI000001	79.7239	80.3565	80.0274	1.5006e-01	1.9001e+00
54	TSI000002	70.5115	71.3607	70.9871	2.3416e-01	1.9000e+00
55	TSO0000001	67.2332	68.1951	67.6650	2.2241e-01	1.9000e+00
56	TSO0000002	79.7901	80.6343	80.1826	2.1002e-01	1.9001e+00
57	TAF020136	86.6660	87.5081	87.0535	1.8844e-01	1.9002e+00
58	TAF120312	74.4271	75.4869	75.1476	2.8064e-01	1.9000e+00
59	TAF130312	86.5105	87.3498	86.9135	1.6593e-01	1.9002e+00
60	EMPTY	0.4785	0.4883	0.4818	2.8659e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4964	2.3365e-03	0.0000e+00
62	EMPTY	0.5029	0.5127	0.5104	2.6543e-03	0.0000e+00
63	EMPTY	0.5225	0.5322	0.5266	2.2839e-03	0.0000e+00
64	EMPTY	0.3320	0.3369	0.3362	1.7115e-03	0.0000e+00
65	EMPTY	0.3516	0.3564	0.3562	9.6655e-04	0.0000e+00
66	EMPTY	0.3711	0.3760	0.3731	2.4344e-03	0.0000e+00
67	EMPTY	0.3857	0.3955	0.3904	1.3811e-03	0.0000e+00
68	EMPTY	0.4004	0.4053	0.4051	9.6655e-04	0.0000e+00
69	EMPTY	0.4199	0.4248	0.4229	2.4164e-03	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4391	1.3381e-03	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4630	1.8950e-03	0.0000e+00
72	EMPTY	0.4736	0.4785	0.4770	2.3008e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4951	2.4164e-03	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5122	1.4797e-03	0.0000e+00
75	EMPTY	0.5273	0.5322	0.5282	1.8950e-03	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5424	1.3381e-03	0.0000e+00
77	EMPTY	0.5615	0.5664	0.5621	1.6028e-03	0.0000e+00
78	EMPTY	0.5859	0.5908	0.5860	6.9053e-04	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6080	2.4642e-03	0.0000e+00
80	PAN020136	45.6503	48.8546	47.1792	7.1337e-01	8.7796e-01
81	PAN050136	91.8923	93.4181	92.5454	3.8999e-01	1.6959e+00
82	PAN070136	67.3033	68.5240	68.0113	3.0245e-01	8.8646e-01
83	PAN080136	29.0124	30.1568	29.5358	2.4225e-01	8.7313e-01
84	PAN090136	28.7924	29.5553	29.2425	1.8577e-01	8.7307e-01
85	PAN100136	30.7334	31.5727	31.2827	1.7095e-01	8.7351e-01
86	PAN105136	20.5268	21.2135	20.8228	1.6647e-01	8.7156e-01
87	PAN110136	18.1500	18.5315	18.3484	1.0790e-01	8.7121e-01
88	PAN115136	16.5904	17.5059	17.0878	2.0978e-01	8.7105e-01
89	PAN120136	11.9849	12.5189	12.2306	1.1869e-01	8.7054e-01
90	PAN125136	12.1300	12.9693	12.4856	1.6857e-01	8.7056e-01
91	PAN130136	12.2519	12.8622	12.5113	1.6018e-01	8.7056e-01
92	PAN120048	28.1952	28.8056	28.5431	1.4224e-01	8.7292e-01
93	PAN130048	26.7074	27.2415	26.9729	1.4642e-01	8.7261e-01
94	PAN120224	29.8853	30.5720	30.2515	1.6018e-01	8.7328e-01
95	PAN130224	26.3509	27.0376	26.6988	1.3363e-01	8.7256e-01
96	PAN120312	29.6008	30.5163	29.9929	1.7777e-01	8.7323e-01
97	PAN130312	25.4619	26.1485	25.8662	1.2827e-01	8.7240e-01
98	PAB000136	46.6065	47.0185	46.8372	8.8687e-02	5.9170e-01
99	PAB100136	35.8068	35.9899	35.8755	4.3624e-02	5.8689e-01
100	PAB125136	32.9202	33.0575	32.9761	3.8455e-02	5.8583e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	46.2453	46.6115	46.4210	1.2370e-01	7.5893e-01
102	PRV000001	21.2702	21.3922	21.2750	2.4164e-02	7.5188e-01
103	PSR000001	30.4513	30.5734	30.5172	6.1457e-02	7.5387e-01
104	PFM000001	75.0592	76.7072	75.7258	4.2221e-01	5.3464e-01
105	PAN000136	390.6492	397.0579	393.6247	1.4746e+00	5.0174e+00
106	PFM000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0082	2.3008e-03	0.0000e+00
108	EMPTY	-10.0000	-8.8379	-9.6305	3.7059e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0016	2.3008e-03	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8136	1.0654e-01	8.1001e-01
113	VPW000002	-0.9812	-0.5906	-0.7938	6.7888e-02	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7627	1.1334e-01	8.1001e-01
115	VPW000004	-0.8166	-0.4259	-0.5783	1.0654e-01	8.1001e-01
116	VPW000005	-1.4872	-1.0966	-1.3387	1.0106e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.4148	1.1361e-01	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.6040	1.1329e+00	8.1004e+00
119	IPW000002	-12.1072	-8.2047	-9.8828	1.0437e+00	8.1004e+00
120	IPW000003	-15.6468	-9.7968	-12.7218	1.3214e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9258	2.3839e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.6492	3.1208e-01	2.0002e+00
123	IPW000006	-2.9297	-1.9531	-2.3047	3.1257e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0210	3.3087e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.8744e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0182	3.5623e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.3829e-03	0.0000e+00
128	IHT000001	-0.4447	0.1412	-0.1673	1.1223e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1206	1.0705e-01	4.1000e+00
130	IHT000003	-0.3294	0.0613	-0.2513	1.1161e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1727	6.8459e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1238	8.8233e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0005	1.2027e-01	4.1000e+00
134	IHT000007	-0.2753	-0.0800	-0.1073	6.8459e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1687	7.2330e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.0975	9.2034e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.0956	7.7324e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1761	1.0625e-01	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0366	9.2034e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1131	9.3043e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1150	9.4702e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1356	5.3525e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	0.0078	2.8716e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.4198	9.5112e-02	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0283	6.1257e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1269	8.4997e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3452	7.1136e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1280	6.8459e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2189	9.3461e-02	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.1047	1.0559e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0625	1.0014e-01	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1484	8.4262e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0072	1.1599e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1241	1.0705e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1153	9.6655e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0872	1.4029e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0391	7.8918e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3794	8.8585e-02	4.1170e+00
161	IHT000034	-0.2753	0.3106	0.0567	1.0625e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.0853	1.0440e-01	4.1000e+00
163	IHT000036	-0.2353	0.5459	0.0264	1.6082e-01	4.1000e+00

Velocity 1 = 22.0049 (ft/sec) (+/- 3.4867 %)
Velocity 2 = 13.2410 (ft/sec) (+/- 3.4867 %)
Pressure drop = 14.2277 (psi)
Tsats in = 276.8787 (deg F) Tsats out = 255.9694 (deg F)
Phi inner = 0.0057 (kBtu/hr-ft2) (+/- 116.9462 %)
Phi outer = 0.0074 (kBtu/hr-ft2) (+/- 123.1924 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5351	1.8684e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1507	1.3648e-01	1.9000e+00
2	TFM000001	86.6611	87.2903	86.9799	1.4968e-01	1.9002e+00
3	TIN000001	86.9414	87.5714	87.3292	1.5032e-01	1.9002e+00
4	TRV000001	86.8387	87.9890	87.3678	2.3917e-01	1.9002e+00
5	TSR000001	87.5560	88.3928	87.9848	1.8278e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.0329	86.9743	86.5730	1.9393e-01	1.9002e+00
8	TAO070136	87.5291	88.3697	87.9775	2.0550e-01	1.9002e+00
9	TAO080136	87.2136	87.9467	87.5261	1.6206e-01	1.9002e+00
10	TAO090136	86.9829	87.7158	87.3383	1.6817e-01	1.9002e+00
11	TAO100136	87.2945	87.8189	87.5619	1.4212e-01	1.9002e+00
12	TAO105136	87.3369	88.2811	87.8227	2.4011e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0755	1.1381e-01	1.9011e+00
14	TAO115136	86.5447	87.5965	87.1198	2.1689e-01	1.9002e+00
15	EMPTY	37.3074	37.7675	37.5797	1.0151e-01	1.9010e+00
16	TAO125136	87.0868	87.7154	87.4052	1.4664e-01	1.9002e+00
17	TAO130136	87.0421	87.6683	87.3546	1.5805e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2673	9.9553e-02	1.9011e+00
19	TAO130048	87.0465	87.6756	87.3890	1.8119e-01	1.9002e+00
20	TAO120224	86.7467	87.4812	87.0895	1.6277e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8933	1.0739e-01	1.9010e+00
22	TAO120312	86.8161	87.7604	87.3173	1.7435e-01	1.9002e+00
23	TAO130312	86.7149	87.4489	86.9935	1.5513e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3714	1.8446e-01	1.9010e+00
25	TRT070000	86.8178	87.4492	87.2085	1.6214e-01	1.9002e+00
26	TRT100000	87.3199	88.3663	87.8174	2.0658e-01	1.9002e+00
27	TRT120000	87.2295	87.8585	87.5524	1.5262e-01	1.9002e+00
28	TRT125000	87.1041	87.8370	87.5695	1.9327e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5682	1.0836e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6853	1.7248e-01	1.9011e+00
31	TAF050136	87.2681	88.0016	87.5380	1.5559e-01	1.9002e+00
32	TAF070136	87.6551	88.4914	88.1545	2.0251e-01	1.9002e+00
33	TAF080136	86.9532	87.7892	87.4906	1.9202e-01	1.9002e+00
34	TAF090136	87.2313	88.4887	87.8816	2.6531e-01	1.9002e+00
35	TAF100136	87.1055	87.7351	87.3475	1.7563e-01	1.9002e+00
36	TAF105136	86.9636	88.0076	87.5859	2.5992e-01	1.9002e+00
37	TAF110136	86.8570	87.6947	87.3571	1.6874e-01	1.9002e+00
38	TAF115136	87.3236	88.4759	87.9138	2.1564e-01	1.9002e+00
39	TAF120136	87.3136	87.8383	87.5707	1.4204e-01	1.9002e+00
40	TAF125136	87.3792	88.0074	87.7299	1.4576e-01	1.9002e+00
41	TAF130136	87.2848	87.9137	87.5778	1.6576e-01	1.9002e+00
42	TAF120048	87.4002	88.3470	87.9027	2.5279e-01	1.9002e+00
43	TAF130048	86.9983	87.7328	87.3410	1.5702e-01	1.9002e+00
44	TAF120224	87.2182	88.0572	87.6249	2.1885e-01	1.9002e+00
45	TAF130224	86.6376	87.3735	87.0971	1.4501e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1663	2.5609e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2261	1.1044e-01	1.9010e+00
48	TAI130048	87.2997	88.3481	87.8281	2.6465e-01	1.9002e+00
49	TAI130136	86.7171	87.5548	87.1578	1.9114e-01	1.9002e+00
50	TAI130224	87.1637	88.4238	87.7402	3.2169e-01	1.9002e+00
51	TAI130312	86.6707	87.5106	87.1313	2.0533e-01	1.9002e+00
52	TRR130000	86.2343	87.1770	86.8588	2.0165e-01	1.9002e+00
53	TSI000001	79.7239	80.4617	80.0658	2.2722e-01	1.9001e+00
54	TSI000002	70.4049	71.5733	70.9254	2.6295e-01	1.9000e+00
55	TSO000001	67.3401	68.0888	67.7175	1.7739e-01	1.9000e+00
56	TSO000002	79.6843	80.6343	80.1841	2.2980e-01	1.9001e+00
57	TAF020136	86.7707	87.5081	87.1066	1.8320e-01	1.9002e+00
58	TAF120312	74.4271	75.5926	75.1710	2.3036e-01	1.9000e+00
59	TAF130312	86.6158	87.3498	86.9217	1.8023e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4829	1.4934e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4977	1.1827e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5106	2.4414e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5272	6.9754e-04	0.0000e+00
64	EMPTY	0.3320	0.3369	0.3367	9.7615e-04	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3565	6.9754e-04	0.0000e+00
66	EMPTY	0.3711	0.3760	0.3713	9.7615e-04	0.0000e+00
67	EMPTY	0.3857	0.3955	0.3905	1.2165e-03	0.0000e+00
68	EMPTY	0.4053	0.4053	0.4053	0.0000e+00	0.0000e+00
69	EMPTY	0.4199	0.4248	0.4227	2.4414e-03	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4394	6.9754e-04	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4634	1.4934e-03	0.0000e+00
72	EMPTY	0.4736	0.4785	0.4764	2.4414e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4942	1.9883e-03	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5121	1.6172e-03	0.0000e+00
75	EMPTY	0.5273	0.5322	0.5274	6.9754e-04	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5423	1.1827e-03	0.0000e+00
77	EMPTY	0.5615	0.5615	0.5615	0.0000e+00	0.0000e+00
78	EMPTY	0.5859	0.5859	0.5859	0.0000e+00	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6074	2.4037e-03	0.0000e+00
80	PAN020136	46.0317	49.3124	47.4268	7.7273e-01	8.7804e-01
81	PAN050136	91.8923	93.4181	92.6303	3.5010e-01	1.6959e+00
82	PAN070136	67.6085	68.7529	68.2001	2.8141e-01	8.8655e-01
83	PAN080136	29.0124	29.7753	29.3954	1.7515e-01	8.7310e-01
84	PAN090136	28.7161	29.7079	29.2766	2.5090e-01	8.7307e-01
85	PAN100136	30.8097	31.8778	31.2862	2.0396e-01	8.7351e-01
86	PAN105136	20.6031	21.4423	20.8600	1.5550e-01	8.7156e-01
87	PAN110136	18.1500	18.5315	18.3820	9.4677e-02	8.7121e-01
88	PAN115136	16.6667	17.5059	17.0995	1.9600e-01	8.7105e-01
89	PAN120136	11.9849	12.5952	12.2698	1.4838e-01	8.7054e-01
90	PAN125136	12.1300	12.7404	12.4632	1.4416e-01	8.7056e-01
91	PAN130136	12.3281	12.7859	12.5165	1.2273e-01	8.7056e-01
92	PAN120048	28.2715	28.8056	28.5035	1.2648e-01	8.7291e-01
93	PAN130048	26.7074	27.2415	27.0173	1.1274e-01	8.7262e-01
94	PAN120224	30.0379	30.5720	30.2855	1.3624e-01	8.7329e-01
95	PAN130224	26.4272	26.9613	26.7480	1.3028e-01	8.7257e-01
96	PAN120312	29.6770	30.3637	30.0040	1.5805e-01	8.7323e-01
97	PAN130312	25.4619	26.1485	25.8760	1.3754e-01	8.7240e-01
98	PAB000136	46.6523	47.0185	46.8335	8.2503e-02	5.9170e-01
99	PAB100136	35.8068	36.0357	35.8788	5.2026e-02	5.8689e-01
100	PAB125136	32.9202	33.0575	32.9791	4.8553e-02	5.8583e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	46.2453	46.7336	46.4371	1.4314e-01	7.5893e-01
102	PRV0000001	21.2702	21.3922	21.2776	2.9569e-02	7.5188e-01
103	PSR0000001	30.4513	30.5734	30.5211	6.1035e-02	7.5387e-01
104	PFM0000001	75.0592	76.3410	75.5918	3.1309e-01	5.3452e-01
105	PAN000136	390.6492	397.5157	393.9003	1.5502e+00	5.0176e+00
106	PFM0000002	27.2165	27.2165	27.2165	1.1563e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0087	2.0584e-03	0.0000e+00
108	EMPTY	-10.0000	-8.8135	-9.6919	3.2809e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0050	6.9754e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0012	2.1215e-03	0.0000e+00
112	VPW0000001	-1.0519	-0.6612	-0.8247	9.2189e-02	8.1002e-01
113	VPW0000002	-0.9812	-0.5906	-0.7660	8.2141e-02	8.1001e-01
114	VPW0000003	-1.0166	-0.6259	-0.7814	9.7490e-02	8.1001e-01
115	VPW0000004	-0.8166	-0.4259	-0.6013	1.0731e-01	8.1001e-01
116	VPW0000005	-1.4872	-1.0966	-1.3277	1.1741e-01	8.1004e-01
117	VPW0000006	-1.5672	-1.1766	-1.3759	9.3412e-02	8.1004e-01
118	IPW0000001	-11.3611	-7.4564	-9.3689	1.2907e+00	8.1003e+00
119	IPW0000002	-12.1072	-8.2047	-9.6781	1.3525e+00	8.1004e+00
120	IPW0000003	-15.6468	-11.7468	-13.0203	1.0938e+00	8.1007e+00
121	IPW0000004	-2.4531	-1.4766	-1.9947	2.0926e-01	2.0001e+00
122	IPW0000005	-4.2058	-2.7411	-3.6478	3.3053e-01	2.0002e+00
123	IPW0000006	-2.9297	-1.4648	-2.3218	3.3845e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0194	3.5224e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.9041e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0181	3.4527e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.1615e-03	0.0000e+00
128	IHT0000001	-0.2494	-0.0541	-0.1736	9.6150e-02	4.1000e+00
129	IHT0000002	-0.2847	-0.0894	-0.1452	8.9148e-02	4.1000e+00
130	IHT0000003	-0.3294	-0.1341	-0.2576	9.5132e-02	4.1000e+00
131	IHT0000004	0.2000	-0.0047	-0.1641	7.6412e-02	4.1000e+00
132	IHT0000005	-0.2800	0.1106	-0.1245	9.7490e-02	4.1000e+00
133	IHT0000006	-0.1528	0.0425	-0.0133	8.9148e-02	4.1000e+00
134	IHT0000007	-0.2753	0.1153	-0.0920	7.3601e-02	4.1000e+00
135	IHT0000008	-0.3153	-0.1200	-0.1678	8.4860e-02	4.1000e+00
136	IHT0000009	-0.3953	-0.0047	-0.1841	6.7148e-02	4.1000e+00
137	IHT0000010	-0.1600	0.2306	-0.0763	1.0548e-01	4.1000e+00
138	IHT0000011	-0.2753	0.1153	-0.1079	8.9148e-02	4.1000e+00
139	IHT0000012	-0.3128	0.0778	-0.1494	9.2189e-02	4.1000e+00
140	IHT0000013	-0.1694	0.0259	-0.0219	8.4860e-02	4.1000e+00
141	IHT0000014	-0.3553	0.0353	-0.1241	8.6187e-02	4.1000e+00
142	IHT0000015	-0.2400	-0.0447	-0.1244	9.6990e-02	4.1000e+00
143	IHT0000016	-0.3153	-0.1200	-0.1439	6.4688e-02	4.1000e+00
144	IHT0000017	-0.3906	0.3906	-0.0159	2.5477e-01	4.1000e+00
145	IHT0000018	0.2753	0.6659	0.4068	1.0076e-01	4.1000e+00
146	IHT0000019	-0.0400	0.1553	-0.0121	6.9053e-02	4.1000e+00
147	IHT0000020	-0.2988	0.0919	-0.1034	7.9736e-02	4.1000e+00
148	IHT0000021	3.1694	3.5600	3.3487	8.7680e-02	4.1001e+00
149	IHT0000022	-0.3153	0.0753	-0.1718	9.5812e-02	4.1000e+00
150	IHT0000023	-0.1553	0.0400	-0.1155	7.9532e-02	4.1000e+00
151	IHT0000024	-0.2853	0.1053	-0.2176	1.0955e-01	4.1000e+00
152	IHT0000025	-0.0047	0.3859	0.0910	1.1362e-01	4.1000e+00
153	IHT0000026	-0.1953	0.1953	-0.0478	1.0188e-01	4.1000e+00
154	IHT0000027	-0.1953	0.1953	-0.1236	1.1059e-01	4.1000e+00
155	IHT0000028	-0.1647	0.2259	0.0067	1.0268e-01	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1194	8.6187e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1113	8.4477e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0947	1.2504e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0757	9.6150e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3885	9.2540e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0635	1.1117e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1108	1.1348e-01	4.1000e+00
163	IHT000036	-0.2353	0.3506	0.0078	1.1644e-01	4.1000e+00

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Velocity 1 = 0.019400 (ft/sec)

Velocity 2 = 0.000100 (ft/sec)

Pressure Drop = 0.010000 (psi)

Tsat in = 0.004822 (deg F) Tsat out = 0.005402 (deg F)

Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000200 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0240	0.0322
1	TRF000002	0.0042	0.0056
2	TFM000001	0.0463	0.0533
3	TIN000001	0.0729	0.0835
4	TRV000001	0.0608	0.0696
5	TSR000001	0.0185	0.0210
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0296	0.0342
8	TAO070136	0.0237	0.0270
9	TAO080136	0.0020	0.0023
10	TAO090136	0.0138	0.0158
11	TAO100136	0.0033	0.0038
12	TAO105136	0.0202	0.0230
13	EMPTY	0.0165	0.0402
14	TAO115136	0.0662	0.0760
15	EMPTY	0.0054	0.0144
16	TAO125136	0.0127	0.0145
17	TAO130136	0.0292	0.0334
18	EMPTY	0.0034	0.0082
19	TAO130048	0.0152	0.0174
20	TAO120224	0.0195	0.0224
21	EMPTY	0.0041	0.0105
22	TAO120312	0.0109	0.0125
23	TAO130312	0.0153	0.0176
24	EMPTY	0.0321	0.0816
25	TRT070000	0.0036	0.0041
26	TRT100000	0.0038	0.0043
27	TRT120000	0.0082	0.0094
28	TRT125000	0.0052	0.0059
29	EMPTY	0.0099	0.0250
30	EMPTY	0.0030	0.0076
31	TAF050136	0.0221	0.0253
32	TAF070136	0.0066	0.0075
33	TAF080136	0.0058	0.0066
34	TAF090136	0.0843	0.0960
35	TAF100136	0.0056	0.0064
36	TAF105136	0.0124	0.0142
37	TAF110136	0.0184	0.0211
38	TAF115136	0.0369	0.0420
39	TAF120136	0.0510	0.0583
40	TAF125136	0.0179	0.0204
41	TAF130136	0.0164	0.0187
42	TAF120048	0.0142	0.0162
43	TAF130048	0.0225	0.0258
44	TAF120224	0.0417	0.0476
45	TAF130224	0.0514	0.0590

#	Name	Abs Diff	%Diff
46	EMPTY	0.0355	0.0931
47	EMPTY	0.0521	0.1330
48	TAI130048	0.0923	0.1052
49	TAI130136	0.0381	0.0437
50	TAI130224	0.0388	0.0442
51	TAI130312	0.0198	0.0227
52	TRR130000	0.0669	0.0770
53	TSI000001	0.0384	0.0480
54	TSI000002	0.0617	0.0869
55	TSO000001	0.0525	0.0776
56	TSO000002	0.0015	0.0019
57	TAF020136	0.0531	0.0610
58	TAF120312	0.0234	0.0311
59	TAF130312	0.0082	0.0094
60	EMPTY	0.0011	0.2283
61	EMPTY	0.0013	0.2619
62	EMPTY	0.0002	0.0392
63	EMPTY	0.0006	0.1139
64	EMPTY	0.0005	0.1487
65	EMPTY	0.0003	0.0842
66	EMPTY	0.0018	0.4824
67	EMPTY	0.0001	0.0256
68	EMPTY	0.0002	0.0494
69	EMPTY	0.0002	0.0473
70	EMPTY	0.0003	0.0683
71	EMPTY	0.0004	0.0864
72	EMPTY	0.0006	0.1258
73	EMPTY	0.0009	0.1818
74	EMPTY	0.0001	0.0195
75	EMPTY	0.0008	0.1514
76	EMPTY	0.0001	0.0184
77	EMPTY	0.0006	0.1067
78	EMPTY	0.0001	0.0171
79	EMPTY	0.0006	0.0987
80	PAN020136	0.2476	0.5248
81	PAN050136	0.0849	0.0917
82	PAN070136	0.1888	0.2776
83	PAN080136	0.1404	0.4754
84	PAN090136	0.0341	0.1166
85	PAN100136	0.0035	0.0112
86	PAN105136	0.0372	0.1787
87	PAN110136	0.0336	0.1831
88	PAN115136	0.0117	0.0685
89	PAN120136	0.0392	0.3205
90	PAN125136	0.0224	0.1794
91	PAN130136	0.0052	0.0416
92	PAN120048	0.0396	0.1387
93	PAN130048	0.0444	0.1646
94	PAN120224	0.0340	0.1124
95	PAN130224	0.0492	0.1843
96	PAN120312	0.0111	0.0370
97	PAN130312	0.0098	0.0379
98	PAB000136	0.0037	0.0079
99	PAB100136	0.0033	0.0092
100	PAB125136	0.0030	0.0091

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0161	0.0347
102	PRV000001	0.0026	0.0122
103	PSR000001	0.0039	0.0128
104	PFM000001	0.1340	0.1770
105	PAN000136	0.2756	0.0700
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0005	6.0976
108	EMPTY	0.0614	0.6376
109	EMPTY	0.0001	2.0408
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	25.0000
112	VPW000001	0.0111	1.3643
113	VPW000002	0.0278	3.5021
114	VPW000003	0.0187	2.4518
115	VPW000004	0.0230	3.9772
116	VPW000005	0.0110	0.8217
117	VPW000006	0.0389	2.7495
118	IPW000001	0.2351	2.4479
119	IPW000002	0.2047	2.0713
120	IPW000003	0.2985	2.3464
121	IPW000004	0.0689	3.5777
122	IPW000005	0.0014	0.0384
123	IPW000006	0.0171	0.7420
124	EMPTY	0.0016	7.6190
125	EMPTY	0.0001	0.6849
126	EMPTY	0.0001	0.5494
127	EMPTY	0.0004	2.4390
128	IHT000001	0.0063	3.7657
129	IHT000002	0.0246	20.3980
130	IHT000003	0.0063	2.5070
131	IHT000004	0.0086	4.9797
132	IHT000005	0.0007	0.5654
133	IHT000006	0.0128	2559.9998
134	IHT000007	0.0153	14.2591
135	IHT000008	0.0069	3.9496
136	IHT000009	0.0154	9.1286
137	IHT000010	0.0212	21.7436
138	IHT000011	0.0123	12.8661
139	IHT000012	0.0267	15.1618
140	IHT000013	0.0147	40.1639
141	IHT000014	0.0110	9.7259
142	IHT000015	0.0094	8.1739
143	IHT000016	0.0083	6.1209
144	IHT000017	0.0237	303.8462
145	IHT000018	0.0130	3.0967
146	IHT000019	0.0162	57.2438
147	IHT000020	0.0235	18.5185
148	IHT000021	0.0035	0.1046
149	IHT000022	0.0029	1.6600
150	IHT000023	0.0125	9.7656
151	IHT000024	0.0013	0.5939
152	IHT000025	0.0137	13.0850
153	IHT000026	0.0147	23.5200
154	IHT000027	0.0248	16.7116
155	IHT000028	0.0005	6.9444

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0047	3.7873
157	IHT000030	0.0040	3.4692
158	IHT000031	0.0075	8.6009
159	IHT000032	0.0366	93.6061
160	IHT000033	0.0091	0.0243
161	IHT000034	0.0068	11.9930
162	IHT000035	0.0255	29.8945
163	IHT000036	0.0186	70.4545

Velocity 1 = 19.8767 (ft/sec) (+/- 3.4947 %)
 Velocity 2 = 13.2404 (ft/sec) (+/- 3.4867 %)
 Pressure drop = 10.7237 (psi)
 Tsat in = 271.4725 (deg F) Tsat out = 254.8602 (deg F)
 Phi inner = 0.0056 (kBtu/hr-ft2) (+/- 118.0357 %)
 Phi outer = 0.0078 (kBtu/hr-ft2) (+/- 120.7585 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5238	1.5480e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1169	1.3749e-01	1.9000e+00
2	TFM000001	85.8233	87.0804	86.4395	3.0425e-01	1.9002e+00
3	TIN000001	86.3108	87.1513	86.7057	2.5783e-01	1.9002e+00
4	TRV000001	85.2703	86.3169	85.7939	2.5726e-01	1.9002e+00
5	TSR000001	87.1385	87.7658	87.4690	1.5726e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	85.8239	86.9743	86.3679	2.7464e-01	1.9002e+00
8	TAO070136	87.1078	88.4756	87.7391	2.7629e-01	1.9002e+00
9	TAO080136	86.9019	88.0503	87.3656	2.3309e-01	1.9002e+00
10	TAO090136	86.6695	87.8209	87.1931	2.6242e-01	1.9002e+00
11	TAO100136	86.9796	87.9232	87.3575	2.5048e-01	1.9002e+00
12	TAO105136	87.2317	88.2811	87.7229	2.7833e-01	1.9002e+00
13	EMPTY	40.7527	41.2111	41.0553	1.1751e-01	1.9011e+00
14	TAO115136	86.4392	87.5961	86.9905	3.0988e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5559	6.3038e-02	1.9009e+00
16	TAO125136	86.7724	87.8198	87.2712	2.4061e-01	1.9002e+00
17	TAO130136	86.7302	87.7701	87.2509	2.5739e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2295	9.0719e-02	1.9011e+00
19	TAO130048	86.7337	87.8840	87.2233	2.7012e-01	1.9002e+00
20	TAO120224	86.5371	87.5860	86.9359	2.4789e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8754	1.2871e-01	1.9010e+00
22	TAO120312	86.6063	87.7603	87.1437	2.6691e-01	1.9002e+00
23	TAO130312	86.4018	87.3443	86.8290	2.4913e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3164	1.5942e-01	1.9010e+00
25	TRT070000	86.6052	87.6604	87.0318	2.6781e-01	1.9002e+00
26	TRT100000	87.1108	88.3655	87.6674	2.8460e-01	1.9002e+00
27	TRT120000	86.9149	87.8581	87.3512	2.4070e-01	1.9002e+00
28	TRT125000	87.0010	88.1486	87.4519	2.7983e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5552	1.0668e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7204	1.8108e-01	1.9011e+00
31	TAF050136	86.7465	87.7919	87.2569	2.6183e-01	1.9002e+00
32	TAF070136	87.3437	88.4914	87.9445	2.8382e-01	1.9002e+00
33	TAF080136	86.7451	87.7892	87.2052	2.9307e-01	1.9002e+00
34	TAF090136	86.9174	88.3837	87.6172	3.5366e-01	1.9002e+00
35	TAF100136	86.5804	87.6300	87.0676	2.6296e-01	1.9002e+00
36	TAF105136	86.7555	87.9025	87.3695	2.7414e-01	1.9002e+00
37	TAF110136	86.5444	87.7983	87.1007	2.9365e-01	1.9002e+00
38	TAF115136	87.2194	88.2662	87.6593	3.0209e-01	1.9002e+00
39	TAF120136	86.8964	87.7336	87.2694	2.3231e-01	1.9002e+00
40	TAF125136	87.0678	88.2156	87.5271	2.4311e-01	1.9002e+00
41	TAF130136	86.9702	87.8091	87.3353	2.3872e-01	1.9002e+00
42	TAF120048	87.0829	88.3483	87.6774	3.0414e-01	1.9002e+00
43	TAF130048	86.7885	87.6281	87.1455	2.4616e-01	1.9002e+00
44	TAF120224	86.6947	87.9521	87.3193	3.0892e-01	1.9002e+00
45	TAF130224	86.4252	87.2689	86.7969	2.3909e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0572	1.9604e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1465	8.0364e-02	1.9010e+00
48	TAI130048	86.8802	88.1384	87.5807	2.9763e-01	1.9002e+00
49	TAI130136	86.5081	87.6590	86.9441	2.6665e-01	1.9002e+00
50	TAI130224	86.7431	88.2141	87.5123	3.7825e-01	1.9002e+00
51	TAI130312	86.2505	87.5106	86.9100	3.0078e-01	1.9002e+00
52	TRR130000	86.1303	87.3860	86.7668	2.9048e-01	1.9002e+00
53	TSI000001	79.6180	80.2513	79.9305	1.4282e-01	1.9001e+00
54	TSI000002	70.5115	71.5728	71.1144	2.6471e-01	1.9000e+00
55	TSO000001	67.4465	68.3030	67.8279	1.8486e-01	1.9000e+00
56	TSO000002	79.7901	80.5290	80.2417	1.7455e-01	1.9001e+00
57	TAF020136	86.3486	87.4029	86.7832	2.7751e-01	1.9002e+00
58	TAF120312	74.5334	75.6981	75.1561	2.6259e-01	1.9000e+00
59	TAF130312	86.0914	87.1399	86.5531	2.4327e-01	1.9002e+00
60	EMPTY	0.4688	0.4834	0.4749	5.3860e-03	0.0000e+00
61	EMPTY	0.4834	0.4980	0.4898	5.5313e-03	0.0000e+00
62	EMPTY	0.4980	0.5127	0.5032	5.6160e-03	0.0000e+00
63	EMPTY	0.5127	0.5273	0.5202	4.5432e-03	0.0000e+00
64	EMPTY	0.3271	0.3369	0.3315	2.8334e-03	0.0000e+00
65	EMPTY	0.3467	0.3564	0.3525	2.6100e-03	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3676	2.2146e-03	0.0000e+00
67	EMPTY	0.3857	0.3906	0.3869	2.1065e-03	0.0000e+00
68	EMPTY	0.3955	0.4053	0.4001	2.0716e-03	0.0000e+00
69	EMPTY	0.4150	0.4248	0.4172	2.8179e-03	0.0000e+00
70	EMPTY	0.4297	0.4395	0.4349	1.8216e-03	0.0000e+00
71	EMPTY	0.4541	0.4639	0.4573	2.8946e-03	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4710	2.4583e-03	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4903	2.4344e-03	0.0000e+00
74	EMPTY	0.5029	0.5127	0.5068	2.9594e-03	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5241	2.3365e-03	0.0000e+00
76	EMPTY	0.5371	0.5420	0.5387	2.3008e-03	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5582	2.3008e-03	0.0000e+00
78	EMPTY	0.5811	0.5859	0.5824	2.2146e-03	0.0000e+00
79	EMPTY	0.6006	0.6104	0.6043	2.7124e-03	0.0000e+00
80	PAN020136	34.2825	37.7157	35.8068	8.3711e-01	8.7459e-01
81	PAN050136	68.2411	70.3774	69.3520	4.3163e-01	1.6889e+00
82	PAN070136	50.0609	51.9682	51.1366	4.3576e-01	8.7934e-01
83	PAN080136	21.3830	22.4511	21.9903	2.3425e-01	8.7174e-01
84	PAN090136	20.7052	21.6970	21.1065	2.4653e-01	8.7160e-01
85	PAN100136	23.8670	24.7825	24.4407	2.0520e-01	8.7214e-01
86	PAN105136	15.5677	16.2543	15.8622	1.6386e-01	8.7090e-01
87	PAN110136	13.6487	14.0301	13.8318	8.9877e-02	8.7069e-01
88	PAN115136	12.9283	13.9201	13.4868	2.2624e-01	8.7065e-01
89	PAN120136	8.5517	9.2383	8.8462	1.5644e-01	8.7028e-01
90	PAN125136	8.8494	9.6886	9.2187	1.6483e-01	8.7031e-01
91	PAN130136	9.2764	9.8104	9.5343	1.4118e-01	8.7033e-01
92	PAN120048	20.7947	21.5577	21.2830	1.5869e-01	8.7163e-01
93	PAN130048	19.8410	20.8328	20.4224	1.6521e-01	8.7150e-01
94	PAN120224	22.2559	23.1715	22.8617	1.6914e-01	8.7188e-01
95	PAN130224	19.8660	20.4763	20.0964	1.5528e-01	8.7145e-01
96	PAN120312	22.2002	23.0395	22.7541	1.8160e-01	8.7186e-01
97	PAN130312	19.2057	19.7398	19.4499	1.3872e-01	8.7136e-01
98	PAB000136	42.4866	43.0359	42.8382	1.2180e-01	5.8980e-01
99	PAB100136	34.3878	34.6624	34.5443	5.9282e-02	5.8639e-01
100	PAB125136	32.2336	32.4625	32.3599	5.1125e-02	5.8561e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	42.0949	42.9494	42.5050	1.9693e-01	7.5749e-01
102	PRV000001	21.0260	21.1481	21.1456	1.7263e-02	7.5186e-01
103	PSR000001	30.3292	30.4513	30.3878	6.1605e-02	7.5384e-01
104	PFM000001	60.8686	62.5165	61.6266	3.2673e-01	5.2320e-01
105	PAN000136	293.1456	301.3853	296.8901	2.0776e+00	4.9757e+00
106	PFM000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0068	2.4164e-03	0.0000e+00
108	EMPTY	-10.0000	-8.7695	-9.6634	3.9106e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0006	1.6028e-03	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8644	9.6332e-02	8.1002e-01
113	VPW000002	-0.9812	-0.5906	-0.7703	7.7324e-02	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7705	1.0297e-01	8.1001e-01
115	VPW000004	-0.8166	-0.4259	-0.5978	1.0168e-01	8.1001e-01
116	VPW000005	-1.4872	-1.0966	-1.3153	1.0168e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.4109	1.0440e-01	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.7211	1.3294e+00	8.1004e+00
119	IPW000002	-12.1072	-8.2047	-10.2730	1.2719e+00	8.1004e+00
120	IPW000003	-15.6468	-11.7468	-12.7218	1.1316e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9258	2.5800e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.6199	2.9591e-01	2.0002e+00
123	IPW000006	-2.9297	-1.9531	-2.3242	3.0501e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0206	3.7291e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0144	2.6853e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0178	2.7480e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.2133e-03	0.0000e+00
128	IHT000001	-0.2494	-0.0541	-0.1752	9.5765e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1441	1.0470e-01	4.1000e+00
130	IHT000003	-0.3294	-0.1341	-0.2630	9.3461e-02	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1727	7.9017e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1120	7.9017e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0317	1.0358e-01	4.1000e+00
134	IHT000007	-0.2753	-0.0800	-0.1269	8.4262e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1825	9.2034e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1961	4.8166e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.0975	9.2034e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1073	8.8321e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1409	9.3710e-02	4.1000e+00
140	IHT000013	-0.3647	0.2212	-0.0287	1.0470e-01	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1209	8.8233e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1345	9.8332e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1473	6.8459e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	-0.0391	1.8508e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3886	1.1223e-01	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0205	5.9189e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0839	7.1136e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3373	8.8321e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.2059	9.7935e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1241	7.2330e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2306	8.8585e-02	4.1000e+00
152	IHT000025	-0.2000	0.3859	0.0969	1.1327e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0664	1.0145e-01	4.1000e+00
154	IHT000027	-0.1953	0.1953	-0.1328	1.0014e-01	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0150	7.7324e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.1553	0.1241	7.2330e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1036	7.2866e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0911	7.1136e-02	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0430	8.1729e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3755	8.6541e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0411	1.0358e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1283	1.0358e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	0.0030	9.0756e-02	4.1000e+00

Velocity 1 = 19.8822 (ft/sec) (+/- 3.4946 %)
 Velocity 2 = 13.2404 (ft/sec) (+/- 3.4867 %)
 Pressure drop = 10.6994 (psi)
 Tsat in = 271.4445 (deg F) Tsat out = 254.8531 (deg F)
 Phi inner = 0.0055 (kBtu/hr-ft2) (+/- 119.4554 %)
 Phi outer = 0.0077 (kBtu/hr-ft2) (+/- 121.0901 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5264	1.5530e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1724	7.7741e-02	1.9000e+00
2	TFM000001	86.0329	86.8711	86.4136	2.1248e-01	1.9002e+00
3	TIN000001	86.4155	87.1510	86.6151	1.5207e-01	1.9002e+00
4	TRV000001	85.1660	86.2131	85.6723	2.0203e-01	1.9002e+00
5	TSR000001	87.1380	87.8704	87.5312	1.5763e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.0324	86.8706	86.3876	1.8959e-01	1.9002e+00
8	TAO070136	87.2125	88.2646	87.7561	2.0750e-01	1.9002e+00
9	TAO080136	87.1118	87.7384	87.3879	1.4396e-01	1.9002e+00
10	TAO090136	86.7742	87.7169	87.1952	1.8938e-01	1.9002e+00
11	TAO100136	86.9801	87.7141	87.3844	1.5135e-01	1.9002e+00
12	TAO105136	87.4415	88.1760	87.7650	1.9375e-01	1.9002e+00
13	EMPTY	40.7527	41.2111	41.0615	1.1974e-01	1.9011e+00
14	TAO115136	86.6492	87.2809	86.9715	1.8779e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5656	7.6185e-02	1.9010e+00
16	TAO125136	86.9824	87.5064	87.2836	1.4754e-01	1.9002e+00
17	TAO130136	86.9402	87.6683	87.2851	1.6602e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2860	1.0856e-01	1.9011e+00
19	TAO130048	87.0474	87.5714	87.2547	1.3924e-01	1.9002e+00
20	TAO120224	86.5374	87.1670	86.9419	1.4198e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8699	1.3247e-01	1.9010e+00
22	TAO120312	86.8162	87.4461	87.1867	1.4065e-01	1.9002e+00
23	TAO130312	86.6105	87.0308	86.8122	1.1688e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3245	1.8903e-01	1.9010e+00
25	TRT070000	86.7113	87.3441	87.0209	1.5275e-01	1.9002e+00
26	TRT100000	87.2155	88.0523	87.6873	1.9585e-01	1.9002e+00
27	TRT120000	87.1248	87.7539	87.4178	1.4669e-01	1.9002e+00
28	TRT125000	87.1057	88.0452	87.5377	1.8065e-01	1.9002e+00
29	EMPTY	39.3761	39.6057	39.5541	9.6784e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7368	1.9317e-01	1.9011e+00
31	TAF050136	86.9550	87.5840	87.2332	1.5338e-01	1.9002e+00
32	TAF070136	87.5515	88.2833	87.9059	1.8412e-01	1.9002e+00
33	TAF080136	86.9551	87.6860	87.2254	1.2791e-01	1.9002e+00
34	TAF090136	86.9170	88.0701	87.5888	2.1382e-01	1.9002e+00
35	TAF100136	86.5803	87.4206	87.0325	1.8464e-01	1.9002e+00
36	TAF105136	86.9654	87.7992	87.3758	1.8575e-01	1.9002e+00
37	TAF110136	86.8580	87.5907	87.0908	1.4677e-01	1.9002e+00
38	TAF115136	87.3241	88.0576	87.6384	1.9824e-01	1.9002e+00
39	TAF120136	87.0011	87.6298	87.2537	1.4153e-01	1.9002e+00
40	TAF125136	87.1725	87.7993	87.5238	1.3928e-01	1.9002e+00
41	TAF130136	86.9706	87.7044	87.3064	1.4979e-01	1.9002e+00
42	TAF120048	87.1876	88.1359	87.6290	2.3549e-01	1.9002e+00
43	TAF130048	86.8933	87.5232	87.1035	1.2496e-01	1.9002e+00
44	TAF120224	87.0090	87.7426	87.3449	1.8770e-01	1.9002e+00
45	TAF130224	86.5314	87.0575	86.7763	1.3829e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0819	1.9741e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1652	6.3526e-02	1.9010e+00
48	TAI130048	86.9849	88.0334	87.5093	2.7077e-01	1.9002e+00
49	TAI130136	86.7176	87.5548	86.9765	1.6966e-01	1.9002e+00
50	TAI130224	87.0581	87.8990	87.5451	2.1312e-01	1.9002e+00
51	TAI130312	86.5654	87.3006	86.9448	1.8544e-01	1.9002e+00
52	TRR130000	86.1298	87.3860	86.7841	2.5689e-01	1.9002e+00
53	TSI000001	79.6181	80.3565	79.9906	1.4771e-01	1.9001e+00
54	TSI000002	70.7233	71.6788	71.0704	2.5334e-01	1.9000e+00
55	TSO000001	67.4465	68.0894	67.8508	1.6242e-01	1.9000e+00
56	TSO000002	80.0007	80.7400	80.3543	1.7971e-01	1.9001e+00
57	TAF020136	86.3481	87.0871	86.7941	1.6575e-01	1.9002e+00
58	TAF120312	74.7448	75.8042	75.2423	2.5956e-01	1.9000e+00
59	TAF130312	86.1962	86.9309	86.5476	1.7850e-01	1.9002e+00
60	EMPTY	0.4688	0.4785	0.4733	1.5467e-03	0.0000e+00
61	EMPTY	0.4834	0.4932	0.4883	1.4095e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.5027	9.7615e-04	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5191	2.2737e-03	0.0000e+00
64	EMPTY	0.3271	0.3369	0.3320	1.4095e-03	0.0000e+00
65	EMPTY	0.3467	0.3564	0.3516	9.9670e-04	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3681	2.4037e-03	0.0000e+00
67	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
68	EMPTY	0.3955	0.4004	0.4003	6.9754e-04	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4195	1.3508e-03	0.0000e+00
70	EMPTY	0.4346	0.4346	0.4346	0.0000e+00	0.0000e+00
71	EMPTY	0.4541	0.4639	0.4590	9.9670e-04	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4735	6.9754e-04	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4930	9.7615e-04	0.0000e+00
74	EMPTY	0.5078	0.5078	0.5078	0.0000e+00	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5249	2.4662e-03	0.0000e+00
76	EMPTY	0.5371	0.5420	0.5400	2.4247e-03	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5597	2.3783e-03	0.0000e+00
78	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6057	9.7615e-04	0.0000e+00
80	PAN020136	33.9010	38.0972	35.5063	9.0981e-01	8.7452e-01
81	PAN050136	68.3937	70.0722	69.3778	3.8785e-01	1.6889e+00
82	PAN070136	49.9846	52.1208	51.0667	4.7151e-01	8.7932e-01
83	PAN080136	21.6119	22.5274	21.9824	2.2622e-01	8.7173e-01
84	PAN090136	20.6289	21.5445	21.0960	2.4308e-01	8.7160e-01
85	PAN100136	23.9433	24.7825	24.4026	1.9294e-01	8.7214e-01
86	PAN105136	15.5677	16.1781	15.8729	1.6628e-01	8.7090e-01
87	PAN110136	13.5724	14.0301	13.8090	9.1134e-02	8.7068e-01
88	PAN115136	12.8520	13.8438	13.4717	2.2816e-01	8.7065e-01
89	PAN120136	8.4754	9.2383	8.8226	1.7555e-01	8.7028e-01
90	PAN125136	8.7731	9.5360	9.2387	1.6052e-01	8.7031e-01
91	PAN130136	9.2764	9.9630	9.5317	1.4150e-01	8.7033e-01
92	PAN120048	20.9473	21.5577	21.2961	1.5099e-01	8.7163e-01
93	PAN130048	19.9173	20.8328	20.4280	1.5195e-01	8.7150e-01
94	PAN120224	22.6374	23.2478	22.8865	1.3102e-01	8.7188e-01
95	PAN130224	19.7897	20.3237	20.1182	1.1035e-01	8.7145e-01
96	PAN120312	22.3528	23.0395	22.7514	1.1989e-01	8.7186e-01
97	PAN130312	19.0532	19.8161	19.4658	1.5173e-01	8.7136e-01
98	PAB000136	42.4409	43.0359	42.8182	1.1540e-01	5.8980e-01
99	PAB100136	34.4335	34.6624	34.5522	5.0248e-02	5.8640e-01
100	PAB125136	32.2793	32.4167	32.3559	4.2191e-02	5.8561e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	42.0949	42.8273	42.5034	1.6817e-01	7.5749e-01
102	PRV000001	21.0260	21.2702	21.1481	2.4917e-02	7.5186e-01
103	PSR000001	30.3292	30.4513	30.3940	6.1552e-02	7.5384e-01
104	PFM000001	60.5939	62.8827	61.6608	4.5835e-01	5.2322e-01
105	PAN000136	289.9412	300.4698	296.2191	2.0642e+00	4.9754e+00
106	PFM000002	27.2165	27.2165	27.2165	1.1563e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0065	2.3135e-03	0.0000e+00
108	EMPTY	-10.0000	-8.6914	-9.7809	3.5596e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0004	1.3508e-03	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8566	7.9736e-02	8.1002e-01
113	VPW000002	-0.9812	-0.5906	-0.7660	8.2141e-02	8.1001e-01
114	VPW000003	-1.0166	-0.4306	-0.7455	1.1146e-01	8.1001e-01
115	VPW000004	-0.8166	-0.4259	-0.5575	1.2215e-01	8.1001e-01
116	VPW000005	-1.4872	-1.0966	-1.3317	1.2594e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.4237	1.3087e-01	8.1005e-01
118	IPW000001	-11.3611	-7.4564	-9.6876	1.0544e+00	8.1004e+00
119	IPW000002	-12.1072	-8.2047	-9.9569	1.1437e+00	8.1004e+00
120	IPW000003	-15.6468	-9.7968	-12.4233	1.0938e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9250	2.4080e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.7276	3.0701e-01	2.0002e+00
123	IPW000006	-2.9297	-1.9531	-2.4314	3.0704e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0215	3.9766e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.6752e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	3.3875e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.1838e-03	0.0000e+00
128	IHT000001	-0.4447	-0.0541	-0.1816	1.0955e-01	4.1000e+00
129	IHT000002	-0.2847	-0.0894	-0.1571	9.3931e-02	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2776	9.5812e-02	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1681	8.3122e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1405	9.7656e-02	4.1000e+00
133	IHT000006	-0.1528	0.0425	-0.0292	9.5132e-02	4.1000e+00
134	IHT000007	-0.2753	-0.0800	-0.0959	5.4032e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1957	9.6150e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1801	5.9734e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1241	7.6412e-02	4.1000e+00
138	IHT000011	-0.2753	-0.0800	-0.1278	8.4860e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1972	1.1219e-01	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0618	9.8153e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1401	7.1817e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1563	9.7656e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1399	5.9734e-02	4.1000e+00
144	IHT000017	-0.3906	0.1953	-0.0120	1.7564e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3750	1.1362e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0081	8.3122e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1114	8.8783e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3448	9.1305e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1917	9.5132e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1434	7.3601e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2295	8.9148e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0830	9.8153e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0638	9.2540e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1475	8.4860e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0147	1.0424e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1394	1.0424e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.0954	9.1305e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0947	1.0424e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0438	8.2338e-02	4.1000e+00
160	IHT000033	37.3247	37.7153	37.3845	9.9303e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	-0.0003	1.0486e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.0789	1.1059e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0360	7.4477e-02	4.1000e+00

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Velocity 1 = 0.005501 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.024300 (psi)

Tsat in = 0.028015 (deg F) Tsat out = 0.007095 (deg F)

Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0026	0.0035
1	TRF000002	0.0555	0.0739
2	TFM000001	0.0259	0.0300
3	TIN000001	0.0906	0.1045
4	TRV000001	0.1216	0.1417
5	TSR000001	0.0622	0.0711
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0197	0.0228
8	TAO070136	0.0170	0.0194
9	TAO080136	0.0223	0.0255
10	TAO090136	0.0021	0.0024
11	TAO100136	0.0269	0.0308
12	TAO105136	0.0421	0.0480
13	EMPTY	0.0062	0.0151
14	TAO115136	0.0190	0.0218
15	EMPTY	0.0097	0.0258
16	TAO125136	0.0124	0.0142
17	TAO130136	0.0342	0.0392
18	EMPTY	0.0565	0.1370
19	TAO130048	0.0314	0.0360
20	TAO120224	0.0060	0.0069
21	EMPTY	0.0055	0.0141
22	TAO120312	0.0430	0.0493
23	TAO130312	0.0168	0.0193
24	EMPTY	0.0081	0.0206
25	TRT070000	0.0109	0.0125
26	TRT100000	0.0199	0.0227
27	TRT120000	0.0666	0.0762
28	TRT125000	0.0858	0.0981
29	EMPTY	0.0011	0.0028
30	EMPTY	0.0164	0.0413
31	TAF050136	0.0237	0.0272
32	TAF070136	0.0386	0.0439
33	TAF080136	0.0202	0.0232
34	TAF090136	0.0284	0.0324
35	TAF100136	0.0351	0.0403
36	TAF105136	0.0063	0.0072
37	TAF110136	0.0099	0.0114
38	TAF115136	0.0209	0.0238
39	TAF120136	0.0157	0.0180
40	TAF125136	0.0033	0.0038
41	TAF130136	0.0289	0.0331
42	TAF120048	0.0484	0.0552
43	TAF130048	0.0420	0.0482
44	TAF120224	0.0256	0.0293
45	TAF130224	0.0206	0.0237

#	Name	Abs Diff	%Diff
46	EMPTY	0.0247	0.0649
47	EMPTY	0.0187	0.0478
48	TAI130048	0.0714	0.0815
49	TAI130136	0.0324	0.0373
50	TAI130224	0.0328	0.0375
51	TAI130312	0.0348	0.0400
52	TRR130000	0.0173	0.0199
53	TSI000001	0.0601	0.0752
54	TSI000002	0.0440	0.0619
55	TSO000001	0.0229	0.0338
56	TSO000002	0.1126	0.1403
57	TAF020136	0.0109	0.0126
58	TAF120312	0.0862	0.1147
59	TAF130312	0.0055	0.0064
60	EMPTY	0.0016	0.3369
61	EMPTY	0.0015	0.3062
62	EMPTY	0.0005	0.0994
63	EMPTY	0.0011	0.2115
64	EMPTY	0.0005	0.1508
65	EMPTY	0.0009	0.2553
66	EMPTY	0.0005	0.1360
67	EMPTY	0.0012	0.3102
68	EMPTY	0.0002	0.0500
69	EMPTY	0.0023	0.5513
70	EMPTY	0.0003	0.0690
71	EMPTY	0.0017	0.3717
72	EMPTY	0.0025	0.5308
73	EMPTY	0.0027	0.5507
74	EMPTY	0.0010	0.1973
75	EMPTY	0.0008	0.1526
76	EMPTY	0.0013	0.2413
77	EMPTY	0.0015	0.2687
78	EMPTY	0.0013	0.2232
79	EMPTY	0.0014	0.2317
80	PAN020136	0.3005	0.8392
81	PAN050136	0.0258	0.0372
82	PAN070136	0.0699	0.1367
83	PAN080136	0.0079	0.0359
84	PAN090136	0.0105	0.0497
85	PAN100136	0.0381	0.1559
86	PAN105136	0.0107	0.0675
87	PAN110136	0.0228	0.1648
88	PAN115136	0.0151	0.1120
89	PAN120136	0.0236	0.2668
90	PAN125136	0.0200	0.2169
91	PAN130136	0.0026	0.0273
92	PAN120048	0.0131	0.0615
93	PAN130048	0.0056	0.0274
94	PAN120224	0.0248	0.1085
95	PAN130224	0.0218	0.1085
96	PAN120312	0.0027	0.0119
97	PAN130312	0.0159	0.0817
98	PAB000136	0.0200	0.0467
99	PAB100136	0.0079	0.0229
100	PAB125136	0.0040	0.0124

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0016	0.0038
102	PRV000001	0.0025	0.0118
103	PSR000001	0.0062	0.0204
104	PFM000001	0.0342	0.0555
105	PAN000136	0.6710	0.2260
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0003	4.4118
108	EMPTY	0.1175	1.2159
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	33.3333
112	VPW000001	0.0078	0.9024
113	VPW000002	0.0043	0.5582
114	VPW000003	0.0250	3.2446
115	VPW000004	0.0403	6.7414
116	VPW000005	0.0164	1.2469
117	VPW000006	0.0128	0.9072
118	IPW000001	0.0335	0.3446
119	IPW000002	0.3161	3.0770
120	IPW000003	0.2985	2.3464
121	IPW000004	0.0008	0.0415
122	IPW000005	0.1077	2.9752
123	IPW000006	0.1072	4.6123
124	EMPTY	0.0009	4.3689
125	EMPTY	0.0012	8.3333
126	EMPTY	0.0000	0.0000
127	EMPTY	0.0002	1.2270
128	IHT000001	0.0064	3.6530
129	IHT000002	0.0130	9.0215
130	IHT000003	0.0146	5.5513
131	IHT000004	0.0046	2.6636
132	IHT000005	0.0285	25.4464
133	IHT000006	0.0025	7.8864
134	IHT000007	0.0310	24.4287
135	IHT000008	0.0132	7.2329
136	IHT000009	0.0160	8.1591
137	IHT000010	0.0266	27.2821
138	IHT000011	0.0205	19.1053
139	IHT000012	0.0563	39.9574
140	IHT000013	0.0331	115.3310
141	IHT000014	0.0192	15.8809
142	IHT000015	0.0218	16.2082
143	IHT000016	0.0074	5.0238
144	IHT000017	0.0271	69.3095
145	IHT000018	0.0136	3.4997
146	IHT000019	0.0124	60.4878
147	IHT000020	0.0275	32.7771
148	IHT000021	0.0075	0.2247
149	IHT000022	0.0142	6.8966
150	IHT000023	0.0193	15.5520
151	IHT000024	0.0011	0.4770
152	IHT000025	0.0139	14.3447
153	IHT000026	0.0026	3.9157
154	IHT000027	0.0147	11.0693
155	IHT000028	0.0003	2.0000

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0153	12.3288
157	IHT000030	0.0082	7.9151
158	IHT000031	0.0036	3.9517
159	IHT000032	0.0008	1.8605
160	IHT000033	0.0090	0.0241
161	IHT000034	0.0414	100.7299
162	IHT000035	0.0494	38.5035
163	IHT000036	0.0390	1299.9999

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Velocity 1 = 18.0143 (ft/sec) (+/- 3.5061 %)

Velocity 2 = 13.2405 (ft/sec) (+/- 3.4867 %)

Pressure drop = 7.9671 (psi)

Tsat in = 266.8551 (deg F) Tsat out = 253.8784 (deg F)

Phi inner = 0.0056 (kBtu/hr-ft2) (+/- 118.5344 %)

Phi outer = 0.0077 (kBtu/hr-ft2) (+/- 121.7513 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5153	1.6156e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1381	1.3782e-01	1.9000e+00
2	TFM000001	86.1376	86.9763	86.5379	1.9941e-01	1.9002e+00
3	TIN000001	86.3103	86.9411	86.6405	1.6026e-01	1.9002e+00
4	TRV000001	85.7935	86.9448	86.3521	2.2647e-01	1.9002e+00
5	TSR000001	86.8255	87.5581	87.1955	1.6954e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	85.8239	86.5570	86.1820	1.7836e-01	1.9002e+00
8	TAO070136	87.1078	87.9487	87.5727	2.0271e-01	1.9002e+00
9	TAO080136	86.9019	87.5301	87.1926	1.5288e-01	1.9002e+00
10	TAO090136	86.6690	87.4031	86.9984	1.6539e-01	1.9002e+00
11	TAO100136	86.8749	87.5046	87.2213	1.2225e-01	1.9002e+00
12	TAO105136	87.1270	87.9662	87.5529	1.7910e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0690	1.1238e-01	1.9011e+00
14	TAO115136	86.3333	87.2802	86.7272	2.1657e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5420	3.2531e-02	1.9009e+00
16	TAO125136	86.8772	87.2974	87.0350	1.3275e-01	1.9002e+00
17	TAO130136	86.8350	87.3571	87.0341	1.5090e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2661	1.0916e-01	1.9011e+00
19	TAO130048	86.7332	87.3625	87.0164	1.6831e-01	1.9002e+00
20	TAO120224	86.4322	87.0622	86.7368	1.6040e-01	1.9002e+00
21	EMPTY	38.6870	38.9168	38.8846	8.0529e-02	1.9010e+00
22	TAO120312	86.7110	87.3410	86.9486	1.5263e-01	1.9002e+00
23	TAO130312	86.1926	86.9256	86.5801	1.4867e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3302	2.0221e-01	1.9010e+00
25	TRT070000	86.5000	87.2381	86.8142	1.9207e-01	1.9002e+00
26	TRT100000	87.1103	87.9485	87.4354	1.9978e-01	1.9002e+00
27	TRT120000	86.8101	87.6492	87.1648	1.5554e-01	1.9002e+00
28	TRT125000	86.8974	87.6289	87.2583	1.7681e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5827	1.0627e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7617	1.9364e-01	1.9011e+00
31	TAF050136	86.9550	87.5840	87.1754	1.6000e-01	1.9002e+00
32	TAF070136	87.3437	88.1797	87.8300	2.2172e-01	1.9002e+00
33	TAF080136	86.8503	87.4781	87.1367	1.6331e-01	1.9002e+00
34	TAF090136	86.9174	88.1748	87.5481	3.0044e-01	1.9002e+00
35	TAF100136	86.6851	87.3154	86.9647	1.6511e-01	1.9002e+00
36	TAF105136	86.8602	87.6964	87.1928	1.9372e-01	1.9002e+00
37	TAF110136	86.7528	87.4860	87.0151	1.8347e-01	1.9002e+00
38	TAF115136	87.0101	87.8484	87.5400	1.6033e-01	1.9002e+00
39	TAF120136	87.0011	87.4213	87.1588	1.2227e-01	1.9002e+00
40	TAF125136	87.0673	87.6957	87.4042	1.6131e-01	1.9002e+00
41	TAF130136	86.9706	87.4950	87.2285	1.2758e-01	1.9002e+00
42	TAF120048	87.0829	88.0313	87.5232	2.4145e-01	1.9002e+00
43	TAF130048	86.6835	87.3135	86.9966	1.5508e-01	1.9002e+00
44	TAF120224	86.9043	87.6383	87.2334	1.7080e-01	1.9002e+00
45	TAF130224	86.3209	86.9518	86.6724	1.3194e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	37.9974	1.7381e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1373	6.4961e-02	1.9010e+00
48	TAI130048	86.6699	87.8243	87.2850	3.0342e-01	1.9002e+00
49	TAI130136	86.1951	87.1374	86.7372	2.1220e-01	1.9002e+00
50	TAI130224	86.8479	88.0036	87.3924	2.9162e-01	1.9002e+00
51	TAI130312	86.3553	87.1954	86.8071	1.8158e-01	1.9002e+00
52	TRR130000	86.3395	87.0726	86.6810	1.7667e-01	1.9002e+00
53	TSI000001	79.7234	80.5670	79.9621	1.9026e-01	1.9001e+00
54	TSI000002	70.7237	71.5733	71.1462	2.1172e-01	1.9000e+00
55	TSO000001	67.3401	68.1962	67.7185	2.1841e-01	1.9000e+00
56	TSO000002	79.7896	80.4233	80.1172	1.5852e-01	1.9001e+00
57	TAF020136	86.4542	87.0871	86.7346	1.6833e-01	1.9002e+00
58	TAF120312	74.7452	75.5926	75.1413	2.5655e-01	1.9000e+00
59	TAF130312	86.1962	86.8261	86.4337	1.6116e-01	1.9002e+00
60	EMPTY	0.4688	0.4736	0.4704	2.3365e-03	0.0000e+00
61	EMPTY	0.4834	0.4883	0.4847	2.1635e-03	0.0000e+00
62	EMPTY	0.4932	0.5029	0.4983	1.5314e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5154	2.4484e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3282	2.0432e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3492	2.4642e-03	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3661	6.9053e-04	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3846	2.1065e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3963	1.8082e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4151	6.9053e-04	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4303	1.6028e-03	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5031	9.6655e-04	0.0000e+00
75	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5565	6.9053e-04	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5803	1.8082e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6007	6.9053e-04	0.0000e+00
80	PAN020136	24.8220	28.4841	26.3281	9.3869e-01	8.7249e-01
81	PAN050136	51.1513	52.9823	51.9509	4.5783e-01	1.6850e+00
82	PAN070136	36.3279	38.6168	37.4464	5.3096e-01	8.7502e-01
83	PAN080136	15.8135	16.7291	16.2774	2.5460e-01	8.7095e-01
84	PAN090136	16.2039	16.9668	16.6677	1.8868e-01	8.7100e-01
85	PAN100136	16.6954	17.5346	17.0799	1.8875e-01	8.7105e-01
86	PAN105136	11.4478	12.1345	11.7927	1.7859e-01	8.7050e-01
87	PAN110136	10.0629	10.5969	10.3741	1.1621e-01	8.7039e-01
88	PAN115136	10.4106	11.0972	10.7356	1.5780e-01	8.7041e-01
89	PAN120136	5.8051	6.5680	6.1927	1.6154e-01	8.7014e-01
90	PAN125136	7.0183	7.5524	7.2411	1.4029e-01	8.7019e-01
91	PAN130136	6.3009	6.8350	6.5786	1.3937e-01	8.7016e-01
92	PAN120048	15.4541	16.1408	15.7425	1.8257e-01	8.7089e-01
93	PAN130048	14.9582	15.6448	15.3580	1.6280e-01	8.7085e-01
94	PAN120224	16.6865	17.4494	17.1381	1.6518e-01	8.7105e-01
95	PAN130224	14.6017	15.3646	15.0060	1.9512e-01	8.7081e-01
96	PAN120312	16.9360	17.6226	17.3327	2.0851e-01	8.7108e-01
97	PAN130312	14.2466	14.8570	14.5701	1.4668e-01	8.7076e-01
98	PAB000136	39.4654	39.9232	39.6567	1.2500e-01	5.8841e-01
99	PAB100136	33.3807	33.5638	33.4668	4.9493e-02	5.8600e-01
100	PAB125136	31.7300	31.9131	31.8207	4.6692e-02	5.8543e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9211	39.7755	39.3361	1.9575e-01	7.5642e-01
102	PRV000001	20.6590	20.7819	20.7257	6.1457e-02	7.5179e-01
103	PSR000001	30.2072	30.3292	30.2267	4.5206e-02	7.5380e-01
104	PFM000001	49.5160	51.1640	50.5689	4.3545e-01	5.1573e-01
105	PAN000136	214.8680	226.7698	220.5717	2.5683e+00	4.9508e+00
106	PFM000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0059	1.9730e-03	0.0000e+00
108	EMPTY	-10.0000	-8.6621	-9.6152	3.6644e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0049	9.8648e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8253	9.1354e-02	8.1002e-01
113	VPW000002	-0.9812	-0.5906	-0.7742	7.2866e-02	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7783	9.8963e-02	8.1001e-01
115	VPW000004	-0.8166	-0.4259	-0.5822	1.1161e-01	8.1001e-01
116	VPW000005	-1.4872	-1.0966	-1.3427	1.1712e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.3914	1.2633e-01	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.6821	1.3088e+00	8.1004e+00
119	IPW000002	-12.1072	-6.2534	-10.3121	1.5690e+00	8.1004e+00
120	IPW000003	-15.6468	-9.7968	-12.8778	1.2514e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9746	2.5131e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.5614	3.0306e-01	2.0002e+00
123	IPW000006	-2.9297	-1.4648	-2.1875	3.4513e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0214	3.6765e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.6762e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0186	2.9594e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0152	3.3656e-03	0.0000e+00
128	IHT000001	-0.2494	0.1412	-0.1517	1.0625e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1323	9.8963e-02	4.1000e+00
130	IHT000003	-0.3294	-0.1341	-0.2278	9.8569e-02	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1336	9.3461e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1159	8.2393e-02	4.1000e+00
133	IHT000006	-0.1528	0.0425	-0.0044	8.4262e-02	4.1000e+00
134	IHT000007	-0.2753	-0.0800	-0.0995	5.9189e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1708	8.6541e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1687	7.2330e-02	4.1000e+00
137	IHT000010	-0.3553	0.2306	-0.0858	1.1084e-01	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1034	7.5283e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1448	9.6735e-02	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0092	1.0206e-01	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1248	8.5454e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1580	9.7377e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1473	6.8459e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	-0.0391	2.3008e-01	4.1000e+00
145	IHT000018	0.2753	0.4706	0.3847	9.7935e-02	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0244	7.7324e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0878	6.6498e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3373	8.8321e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1786	1.1334e-01	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1280	6.8459e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2150	9.4702e-02	4.1000e+00
152	IHT000025	-0.2000	0.3859	0.0969	1.1995e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0508	9.5112e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1289	9.3461e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0111	1.0625e-01	4.1000e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1475	1.0410e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1153	7.8918e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1106	1.0440e-01	4.1000e+00
159	IHT000032	0.0000	0.3906	0.0742	1.0358e-01	4.1000e+00
160	IHT000033	37.1294	37.5200	37.3950	1.0259e-01	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0489	1.0145e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1166	1.0559e-01	4.1000e+00
163	IHT000036	-0.2353	0.3506	0.0069	1.0106e-01	4.1000e+00

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sum2

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Velocity 1 = 18.0254 (ft/sec) (+/- 3.5060 %)

Velocity 2 = 13.2405 (ft/sec) (+/- 3.4867 %)

Pressure drop = 7.9598 (psi)

Tsats in = 266.8105 (deg F) Tsats out = 253.8389 (deg F)

Phi inner = 0.0057 (kBtu/hr-ft2) (+/- 116.6414 %)

Phi outer = 0.0078 (kBtu/hr-ft2) (+/- 120.7537 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.1838	74.8213	74.5264	1.6124e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.1335	1.1285e-01	1.9000e+00
2	TFM0000001	86.1370	86.9758	86.5611	2.1603e-01	1.9002e+00
3	TIN0000001	86.4155	87.2560	86.8060	2.0344e-01	1.9002e+00
4	TRV0000001	86.0026	87.0476	86.5149	2.7502e-01	1.9002e+00
5	TSR0000001	87.1385	87.9745	87.4608	2.3131e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	85.8239	86.5570	86.2149	1.7982e-01	1.9002e+00
8	TAO070136	87.1078	87.8440	87.5521	1.7868e-01	1.9002e+00
9	TAO080136	86.7968	87.4254	87.1603	1.4662e-01	1.9002e+00
10	TAO090136	86.4602	87.4031	87.0094	2.4238e-01	1.9002e+00
11	TAO100136	86.7702	87.6094	87.2327	1.5723e-01	1.9002e+00
12	TAO105136	86.8119	87.8612	87.5059	2.1720e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0708	1.1283e-01	1.9011e+00
14	TAO115136	86.3333	87.1755	86.7073	2.2019e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5421	3.2861e-02	1.9009e+00
16	TAO125136	86.5633	87.4013	87.0211	1.5536e-01	1.9002e+00
17	TAO130136	86.5236	87.3571	87.0045	1.6592e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2673	1.1000e-01	1.9011e+00
19	TAO130048	86.8375	87.2578	87.0137	1.3081e-01	1.9002e+00
20	TAO120224	86.3275	86.9575	86.7259	1.4362e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.9214	1.2833e-01	1.9010e+00
22	TAO120312	86.7110	87.2364	86.9577	1.4458e-01	1.9002e+00
23	TAO130312	86.4013	86.8209	86.6094	1.1822e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3058	1.7032e-01	1.9010e+00
25	TRT070000	86.3953	87.1329	86.8163	1.6932e-01	1.9002e+00
26	TRT100000	86.9017	87.8438	87.4164	1.9093e-01	1.9002e+00
27	TRT120000	86.9149	87.4394	87.1763	1.3224e-01	1.9002e+00
28	TRT125000	86.8958	87.7319	87.2253	1.7314e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5541	1.1729e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6900	1.9143e-01	1.9011e+00
31	TAF050136	86.8502	87.4794	87.1842	1.7582e-01	1.9002e+00
32	TAF070136	87.4469	88.1782	87.8527	2.1473e-01	1.9002e+00
33	TAF080136	86.8499	87.3734	87.1383	1.6047e-01	1.9002e+00
34	TAF090136	87.0218	88.0701	87.5439	2.5704e-01	1.9002e+00
35	TAF100136	86.5804	87.2107	86.9576	1.6030e-01	1.9002e+00
36	TAF105136	86.7573	87.7997	87.2123	2.5595e-01	1.9002e+00
37	TAF110136	86.6481	87.2772	86.9736	1.4226e-01	1.9002e+00
38	TAF115136	86.9049	87.9529	87.5166	1.9523e-01	1.9002e+00
39	TAF120136	86.8964	87.4200	87.1621	1.1946e-01	1.9002e+00
40	TAF125136	86.9626	87.5911	87.3899	1.5959e-01	1.9002e+00
41	TAF130136	86.9702	87.3904	87.2103	1.2491e-01	1.9002e+00
42	TAF120048	86.9778	87.8211	87.5581	1.8775e-01	1.9002e+00
43	TAF130048	86.5788	87.2088	86.9987	1.4533e-01	1.9002e+00
44	TAF120224	86.9038	87.5332	87.2401	1.6714e-01	1.9002e+00
45	TAF130224	86.4256	86.9528	86.6839	1.2339e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0396	1.9731e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1136	1.0483e-01	1.9010e+00
48	TAI130048	86.7750	87.8243	87.2376	2.9348e-01	1.9002e+00
49	TAI130136	86.4043	87.1370	86.8208	1.5777e-01	1.9002e+00
50	TAI130224	86.7427	87.8990	87.3456	2.9160e-01	1.9002e+00
51	TAI130312	86.3553	87.1958	86.7498	1.9241e-01	1.9002e+00
52	TRR130000	86.1303	87.0726	86.5770	2.0367e-01	1.9002e+00
53	TSI000001	79.6180	80.4617	80.0228	1.9878e-01	1.9001e+00
54	TSI000002	70.5120	71.5728	71.1116	2.3688e-01	1.9000e+00
55	TSO000001	67.2332	68.0888	67.7044	1.9758e-01	1.9000e+00
56	TSO000002	79.7901	80.5290	80.1325	1.6483e-01	1.9001e+00
57	TAF020136	86.3494	86.9819	86.7317	1.6754e-01	1.9002e+00
58	TAF120312	74.6390	75.6986	75.1278	2.6550e-01	1.9000e+00
59	TAF130312	86.0914	86.7214	86.4557	1.7798e-01	1.9002e+00
60	EMPTY	0.4688	0.4736	0.4719	2.3483e-03	0.0000e+00
61	EMPTY	0.4834	0.4883	0.4872	2.0584e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.5008	2.4414e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5171	1.4934e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3289	2.3783e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3503	2.1781e-03	0.0000e+00
66	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3852	1.4934e-03	0.0000e+00
68	EMPTY	0.3955	0.4053	0.3986	2.5787e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4157	1.7263e-03	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4331	2.2737e-03	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4551	1.9883e-03	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4693	1.6172e-03	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4886	1.1827e-03	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5043	2.2287e-03	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5224	6.9754e-04	0.0000e+00
76	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5568	9.7615e-04	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5809	9.7615e-04	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6022	2.3135e-03	0.0000e+00
80	PAN020136	24.0591	27.7975	26.3308	9.3975e-01	8.7249e-01
81	PAN050136	51.3039	52.9823	51.9391	3.9808e-01	1.6850e+00
82	PAN070136	36.5568	38.3879	37.5191	3.8014e-01	8.7504e-01
83	PAN080136	15.6609	16.6528	16.2028	2.0379e-01	8.7094e-01
84	PAN090136	16.2039	16.9668	16.5713	1.9802e-01	8.7099e-01
85	PAN100136	16.6954	17.5346	17.1002	1.9213e-01	8.7105e-01
86	PAN105136	11.4478	12.2108	11.8355	1.6977e-01	8.7050e-01
87	PAN110136	10.1391	10.5969	10.3883	1.1206e-01	8.7039e-01
88	PAN115136	10.4869	11.2498	10.7765	1.8293e-01	8.7042e-01
89	PAN120136	5.8051	6.4917	6.1134	1.6842e-01	8.7013e-01
90	PAN125136	7.0183	7.5524	7.2379	1.4662e-01	8.7019e-01
91	PAN130136	6.3009	6.9113	6.5516	1.4188e-01	8.7015e-01
92	PAN120048	15.4541	16.2934	15.7500	1.7731e-01	8.7089e-01
93	PAN130048	15.0345	15.6448	15.3770	1.4027e-01	8.7085e-01
94	PAN120224	16.6865	17.4494	17.1240	1.6242e-01	8.7105e-01
95	PAN130224	14.6780	15.2883	14.9925	1.3544e-01	8.7081e-01
96	PAN120312	16.9360	17.5463	17.2879	1.8149e-01	8.7107e-01
97	PAN130312	14.3229	14.8570	14.5798	1.3369e-01	8.7076e-01
98	PAB000136	39.3738	39.8774	39.6270	1.0068e-01	5.8840e-01
99	PAB100136	33.3349	33.5638	33.4592	5.0319e-02	5.8600e-01
100	PAB125136	31.7300	31.8674	31.7991	3.7519e-02	5.8542e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.0431	39.7755	39.3146	1.7131e-01	7.5641e-01
102	PRV0000001	20.7819	20.9039	20.7868	2.4404e-02	7.5180e-01
103	PSR0000001	30.2072	30.3292	30.2146	2.9569e-02	7.5379e-01
104	PFM0000001	49.7907	51.8048	50.6315	4.1983e-01	5.1577e-01
105	PAN000136	215.7835	224.0233	220.3705	2.1256e+00	4.9507e+00
106	PFM0000002	27.2165	27.2165	27.2165	1.1563e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0063	2.2287e-03	0.0000e+00
108	EMPTY	-10.0000	-8.7158	-9.6021	3.8201e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9754e-04	0.0000e+00
112	VPW0000001	-1.0519	-0.6612	-0.8326	8.5810e-02	8.1002e-01
113	VPW0000002	-0.9812	-0.5906	-0.7700	6.7148e-02	8.1001e-01
114	VPW0000003	-1.0166	-0.6259	-0.7854	1.1741e-01	8.1001e-01
115	VPW0000004	-0.8166	-0.4259	-0.5774	9.9792e-02	8.1001e-01
116	VPW0000005	-1.4872	-1.0966	-1.3676	1.0409e-01	8.1004e-01
117	VPW0000006	-1.5672	-1.1766	-1.3838	1.2229e-01	8.1004e-01
118	IPW0000001	-11.3611	-7.4564	-9.7673	1.1039e+00	8.1004e+00
119	IPW0000002	-12.1072	-8.2047	-10.3551	1.2111e+00	8.1004e+00
120	IPW0000003	-15.6468	-9.7968	-12.6621	1.2009e+00	8.1006e+00
121	IPW0000004	-2.4531	-1.4766	-1.9549	2.5391e-01	2.0001e+00
122	IPW0000005	-4.6941	-3.2294	-3.6478	3.3053e-01	2.0002e+00
123	IPW0000006	-2.9297	-1.9531	-2.3816	3.3994e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	3.3149e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.8191e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0174	2.9901e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.8312e-03	0.0000e+00
128	IHT0000001	-0.4447	0.1412	-0.1457	1.1348e-01	4.1000e+00
129	IHT0000002	-0.2847	0.1059	-0.1053	9.6318e-02	4.1000e+00
130	IHT0000003	-0.3294	-0.1341	-0.2417	9.8153e-02	4.1000e+00
131	IHT0000004	-0.3953	-0.0047	-0.1482	9.5812e-02	4.1000e+00
132	IHT0000005	-0.2800	0.1106	-0.1006	1.0424e-01	4.1000e+00
133	IHT0000006	-0.1528	0.2378	-0.0173	1.1419e-01	4.1000e+00
134	IHT0000007	-0.2753	0.1153	-0.1079	8.9148e-02	4.1000e+00
135	IHT0000008	-0.3153	0.0753	-0.1838	1.0836e-01	4.1000e+00
136	IHT0000009	-0.3953	0.1906	-0.1841	9.6318e-02	4.1000e+00
137	IHT0000010	-0.1600	0.0353	-0.0763	9.7656e-02	4.1000e+00
138	IHT0000011	-0.2753	0.1153	-0.0760	6.2908e-02	4.1000e+00
139	IHT0000012	-0.3128	0.0778	-0.1414	1.0268e-01	4.1000e+00
140	IHT0000013	-0.1694	0.2212	0.0060	8.2141e-02	4.1000e+00
141	IHT0000014	-0.1600	0.0353	-0.1042	8.9148e-02	4.1000e+00
142	IHT0000015	-0.2400	0.1506	-0.1324	1.0594e-01	4.1000e+00
143	IHT0000016	-0.3153	0.0753	-0.1240	6.2908e-02	4.1000e+00
144	IHT0000017	-0.3906	0.3906	-0.0040	1.9323e-01	4.1000e+00
145	IHT0000018	0.2753	0.4706	0.3949	9.6150e-02	4.1000e+00
146	IHT0000019	-0.2353	0.1553	-0.0201	7.1817e-02	4.1000e+00
147	IHT0000020	-0.2988	0.0919	-0.1034	6.9053e-02	4.1000e+00
148	IHT0000021	3.1694	3.5600	3.3328	8.3122e-02	4.1001e+00
149	IHT0000022	-0.3153	0.0753	-0.1798	9.9303e-02	4.1000e+00
150	IHT0000023	-0.1553	0.0400	-0.1394	5.4032e-02	4.1000e+00
151	IHT0000024	-0.2853	-0.0900	-0.2415	8.2338e-02	4.1000e+00
152	IHT0000025	-0.0047	0.3859	0.0671	1.0315e-01	4.1000e+00
153	IHT0000026	-0.1953	0.1953	-0.0558	9.7656e-02	4.1000e+00
154	IHT0000027	-0.1953	0.0000	-0.1515	8.2338e-02	4.1000e+00
155	IHT0000028	-0.1647	0.2259	0.0187	9.2715e-02	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1354	9.1305e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1153	7.9736e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0907	1.0731e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0598	9.0949e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3805	8.9148e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0196	1.0640e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1148	1.1319e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	0.0038	9.9792e-02	4.1000e+00

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Velocity 1 = 0.011101 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.007300 (psi)

Tsat in = 0.044617 (deg F) Tsat out = 0.039505 (deg F)

Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0111	0.0149
1	TRF000002	0.0046	0.0061
2	TFM000001	0.0232	0.0268
3	TIN000001	0.1655	0.1910
4	TRV000001	0.1628	0.1885
5	TSR000001	0.2653	0.3043
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0329	0.0382
8	TAO070136	0.0206	0.0235
9	TAO080136	0.0323	0.0370
10	TAO090136	0.0110	0.0126
11	TAO100136	0.0114	0.0131
12	TAO105136	0.0470	0.0537
13	EMPTY	0.0018	0.0044
14	TAO115136	0.0199	0.0230
15	EMPTY	0.0001	0.0003
16	TAO125136	0.0139	0.0160
17	TAO130136	0.0296	0.0340
18	EMPTY	0.0012	0.0029
19	TAO130048	0.0027	0.0031
20	TAO120224	0.0109	0.0126
21	EMPTY	0.0368	0.0946
22	TAO120312	0.0091	0.0105
23	TAO130312	0.0293	0.0338
24	EMPTY	0.0244	0.0620
25	TRT070000	0.0021	0.0024
26	TRT100000	0.0190	0.0217
27	TRT120000	0.0115	0.0132
28	TRT125000	0.0330	0.0378
29	EMPTY	0.0286	0.0723
30	EMPTY	0.0717	0.1803
31	TAF050136	0.0088	0.0101
32	TAF070136	0.0227	0.0258
33	TAF080136	0.0016	0.0018
34	TAF090136	0.0042	0.0048
35	TAF100136	0.0071	0.0082
36	TAF105136	0.0195	0.0224
37	TAF110136	0.0415	0.0477
38	TAF115136	0.0234	0.0267
39	TAF120136	0.0033	0.0038
40	TAF125136	0.0143	0.0164
41	TAF130136	0.0182	0.0209
42	TAF120048	0.0349	0.0399
43	TAF130048	0.0021	0.0024
44	TAF120224	0.0067	0.0077
45	TAF130224	0.0115	0.0133

#	Name	Abs Diff	%Diff
46	EMPTY	0.0422	0.1111
47	EMPTY	0.0237	0.0605
48	TAI130048	0.0474	0.0543
49	TAI130136	0.0836	0.0964
50	TAI130224	0.0468	0.0536
51	TAI130312	0.0573	0.0660
52	TRR130000	0.1040	0.1200
53	TSI000001	0.0607	0.0759
54	TSI000002	0.0346	0.0486
55	TSO000001	0.0141	0.0208
56	TSO000002	0.0153	0.0191
57	TAF020136	0.0029	0.0033
58	TAF120312	0.0135	0.0180
59	TAF130312	0.0220	0.0255
60	EMPTY	0.0015	0.3189
61	EMPTY	0.0025	0.5158
62	EMPTY	0.0025	0.5017
63	EMPTY	0.0017	0.3298
64	EMPTY	0.0007	0.2133
65	EMPTY	0.0011	0.3150
66	EMPTY	0.0001	0.0273
67	EMPTY	0.0006	0.1560
68	EMPTY	0.0023	0.5804
69	EMPTY	0.0006	0.1445
70	EMPTY	0.0028	0.6507
71	EMPTY	0.0010	0.2202
72	EMPTY	0.0005	0.1067
73	EMPTY	0.0003	0.0614
74	EMPTY	0.0012	0.2385
75	EMPTY	0.0001	0.0191
76	EMPTY	0.0001	0.0186
77	EMPTY	0.0003	0.0539
78	EMPTY	0.0006	0.1034
79	EMPTY	0.0015	0.2497
80	PAN020136	0.0027	0.0103
81	PAN050136	0.0118	0.0227
82	PAN070136	0.0727	0.1941
83	PAN080136	0.0746	0.4583
84	PAN090136	0.0964	0.5784
85	PAN100136	0.0203	0.1189
86	PAN105136	0.0428	0.3629
87	PAN110136	0.0142	0.1369
88	PAN115136	0.0409	0.3810
89	PAN120136	0.0793	1.2805
90	PAN125136	0.0032	0.0442
91	PAN130136	0.0270	0.4104
92	PAN120048	0.0075	0.0476
93	PAN130048	0.0190	0.1237
94	PAN120224	0.0141	0.0823
95	PAN130224	0.0135	0.0900
96	PAN120312	0.0448	0.2585
97	PAN130312	0.0097	0.0666
98	PAB000136	0.0297	0.0749
99	PAB100136	0.0076	0.0227
100	PAB125136	0.0216	0.0679

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0215	0.0547
102	PRV000001	0.0611	0.2948
103	PSR000001	0.0121	0.0400
104	PFM000001	0.0626	0.1238
105	PAN000136	0.2012	0.0912
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0004	6.7797
108	EMPTY	0.0131	0.1362
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	66.6667
112	VPW000001	0.0073	0.8845
113	VPW000002	0.0042	0.5425
114	VPW000003	0.0071	0.9122
115	VPW000004	0.0048	0.8245
116	VPW000005	0.0249	1.8545
117	VPW000006	0.0076	0.5462
118	IPW000001	0.0852	0.8800
119	IPW000002	0.0430	0.4170
120	IPW000003	0.2157	1.6750
121	IPW000004	0.0197	0.9977
122	IPW000005	0.0864	2.4260
123	IPW000006	0.1941	8.8731
124	EMPTY	0.0003	1.4019
125	EMPTY	0.0001	0.7194
126	EMPTY	0.0012	6.4516
127	EMPTY	0.0007	4.6053
128	IHT000001	0.0060	3.9552
129	IHT000002	0.0270	20.4082
130	IHT000003	0.0139	6.1018
131	IHT000004	0.0146	10.9282
132	IHT000005	0.0153	13.2010
133	IHT000006	0.0129	293.1818
134	IHT000007	0.0084	8.4422
135	IHT000008	0.0130	7.6112
136	IHT000009	0.0154	9.1286
137	IHT000010	0.0095	11.0723
138	IHT000011	0.0274	26.4990
139	IHT000012	0.0034	2.3481
140	IHT000013	0.0152	165.2174
141	IHT000014	0.0206	16.5064
142	IHT000015	0.0256	16.2025
143	IHT000016	0.0233	15.8181
144	IHT000017	0.0351	89.7698
145	IHT000018	0.0102	2.6514
146	IHT000019	0.0043	17.6230
147	IHT000020	0.0156	17.7676
148	IHT000021	0.0045	0.1348
149	IHT000022	0.0012	0.6719
150	IHT000023	0.0114	8.9062
151	IHT000024	0.0265	12.3256
152	IHT000025	0.0298	30.7533
153	IHT000026	0.0050	9.8425
154	IHT000027	0.0226	17.5330
155	IHT000028	0.0076	68.4685

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#	Name	Abs Dfff	%Dfff
156	IHT000029	0.0121	8.2034
157	IHT000030	0.0000	0.0000
158	IHT000031	0.0199	17.9928
159	IHT000032	0.0144	19.4070
160	IHT000033	0.0145	0.0388
161	IHT000034	0.0293	59.9182
162	IHT000035	0.0018	1.5437
163	IHT000036	0.0031	44.9275

Velocity 1 = 15.8840 (ft/sec) (+/- 3.5290 %)
 Velocity 2 = 13.2410 (ft/sec) (+/- 3.4867 %)
 Pressure drop = 5.1211 (psi)
 Tsat in = 261.8471 (deg F) Tsat out = 252.9718 (deg F)
 Phi inner = 0.0057 (kBtu/hr-ft2) (+/- 117.2646 %)
 Phi outer = 0.0077 (kBtu/hr-ft2) (+/- 121.8791 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5791	1.6633e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1846	9.8891e-02	1.9000e+00
2	TFM000001	86.5565	87.3944	86.9736	1.8992e-01	1.9002e+00
3	TIN000001	86.8360	87.5709	87.1827	1.9009e-01	1.9002e+00
4	TRV000001	86.2117	87.4663	86.8247	2.7856e-01	1.9002e+00
5	TSR000001	87.0343	87.8709	87.3754	2.1411e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.2413	86.9747	86.6042	1.7837e-01	1.9002e+00
8	TAO070136	87.5291	88.3705	88.0062	1.9143e-01	1.9002e+00
9	TAO080136	87.2151	87.9467	87.5889	1.4343e-01	1.9002e+00
10	TAO090136	87.0876	87.9260	87.4548	1.8959e-01	1.9002e+00
11	TAO100136	87.3991	87.9235	87.6613	1.4715e-01	1.9002e+00
12	TAO105136	87.6514	88.2811	87.9305	1.8430e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0645	1.1113e-01	1.9011e+00
14	TAO115136	86.7546	87.7012	87.1903	2.2893e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5466	4.5533e-02	1.9009e+00
16	TAO125136	87.1915	87.8198	87.4701	1.4296e-01	1.9002e+00
17	TAO130136	87.1468	87.8748	87.4770	1.5956e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2661	1.0916e-01	1.9011e+00
19	TAO130048	87.1517	87.7803	87.4639	1.3120e-01	1.9002e+00
20	TAO120224	86.8515	87.6907	87.1519	1.4679e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8800	9.6916e-02	1.9010e+00
22	TAO120312	87.1306	87.6558	87.4017	1.4697e-01	1.9002e+00
23	TAO130312	86.6110	87.2399	87.0362	1.1683e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3577	1.9594e-01	1.9010e+00
25	TRT070000	86.9230	87.6599	87.2828	1.7034e-01	1.9002e+00
26	TRT100000	87.6336	88.2617	87.9330	1.8430e-01	1.9002e+00
27	TRT120000	87.3342	87.9632	87.6215	1.3860e-01	1.9002e+00
28	TRT125000	87.3139	87.9405	87.6709	1.6625e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5644	1.0044e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6929	2.0681e-01	1.9011e+00
31	TAF050136	87.2690	88.0016	87.6310	1.4836e-01	1.9002e+00
32	TAF070136	87.8649	88.6995	88.2385	1.8147e-01	1.9002e+00
33	TAF080136	87.2664	87.8939	87.5655	1.5790e-01	1.9002e+00
34	TAF090136	87.4411	88.4887	87.9461	2.4832e-01	1.9002e+00
35	TAF100136	87.1050	87.7351	87.3720	1.6863e-01	1.9002e+00
36	TAF105136	87.1734	88.0076	87.6009	2.3070e-01	1.9002e+00
37	TAF110136	87.2757	87.6943	87.4079	1.1350e-01	1.9002e+00
38	TAF115136	87.5334	88.2668	87.9586	1.8733e-01	1.9002e+00
39	TAF120136	87.2097	87.8383	87.6222	1.2061e-01	1.9002e+00
40	TAF125136	87.5890	88.1121	87.8169	1.3303e-01	1.9002e+00
41	TAF130136	87.3895	88.0179	87.6348	1.3322e-01	1.9002e+00
42	TAF120048	87.3988	88.2424	87.9536	2.1380e-01	1.9002e+00
43	TAF130048	87.2082	87.7328	87.3867	1.3446e-01	1.9002e+00
44	TAF120224	87.4280	88.0572	87.6525	1.5272e-01	1.9002e+00
45	TAF130224	86.8476	87.3735	87.1109	1.2440e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0710	2.2005e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1648	7.8186e-02	1.9010e+00
48	TAI130048	87.0900	88.4531	87.7757	3.2344e-01	1.9002e+00
49	TAI130136	86.9271	87.5553	87.2265	1.6647e-01	1.9002e+00
50	TAI130224	87.2684	88.4238	87.7749	2.9382e-01	1.9002e+00
51	TAI130312	86.7759	87.7203	87.2103	1.8970e-01	1.9002e+00
52	TRR130000	86.6535	87.5958	87.0159	2.2689e-01	1.9002e+00
53	TSI000001	79.7239	80.4617	80.1139	1.6528e-01	1.9001e+00
54	TSI000002	70.6176	71.5733	71.0700	2.6152e-01	1.9000e+00
55	TSO000001	67.3401	68.0888	67.7612	1.8887e-01	1.9000e+00
56	TSO000002	79.7896	80.6343	80.1720	1.7960e-01	1.9001e+00
57	TAF020136	86.8759	87.6141	87.2031	1.5674e-01	1.9002e+00
58	TAF120312	74.6392	75.6986	75.1583	2.4608e-01	1.9000e+00
59	TAF130312	86.5110	87.3493	86.9031	1.8564e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4802	2.3365e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4951	2.4164e-03	0.0000e+00
62	EMPTY	0.5029	0.5127	0.5090	2.3261e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5254	2.4164e-03	0.0000e+00
64	EMPTY	0.3320	0.3369	0.3321	6.9053e-04	0.0000e+00
65	EMPTY	0.3516	0.3564	0.3519	1.1714e-03	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3687	2.4662e-03	0.0000e+00
67	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
68	EMPTY	0.4004	0.4004	0.4004	0.0000e+00	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4197	9.6655e-04	0.0000e+00
70	EMPTY	0.4346	0.4346	0.4346	0.0000e+00	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4591	6.9053e-04	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4735	6.9053e-04	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4928	1.3381e-03	0.0000e+00
74	EMPTY	0.5078	0.5078	0.5078	0.0000e+00	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5234	1.9730e-03	0.0000e+00
76	EMPTY	0.5371	0.5469	0.5396	2.6562e-03	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5584	2.3675e-03	0.0000e+00
78	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
79	EMPTY	0.6055	0.6055	0.6055	0.0000e+00	0.0000e+00
80	PAN020136	14.7512	17.8030	16.5396	7.1805e-01	8.7098e-01
81	PAN050136	32.6882	34.2140	33.6220	3.1383e-01	1.6821e+00
82	PAN070136	23.6632	24.8839	24.1942	2.8711e-01	8.7210e-01
83	PAN080136	9.9389	10.6255	10.2853	1.5275e-01	8.7038e-01
84	PAN090136	9.8715	10.4818	10.1965	1.4111e-01	8.7037e-01
85	PAN100136	10.7444	11.3548	11.0740	1.1268e-01	8.7044e-01
86	PAN105136	7.7857	8.3198	8.0955	1.1370e-01	8.7024e-01
87	PAN110136	6.7059	7.0111	6.8234	8.7479e-02	8.7017e-01
88	PAN115136	7.1300	7.6640	7.3863	1.3327e-01	8.7020e-01
89	PAN120136	3.4400	3.8977	3.6231	1.0899e-01	8.7005e-01
90	PAN125136	4.6532	5.1873	4.9432	1.0679e-01	8.7009e-01
91	PAN130136	3.4781	4.0121	3.7405	1.2537e-01	8.7005e-01
92	PAN120048	9.6558	10.1899	9.8984	1.2775e-01	8.7035e-01
93	PAN130048	9.4650	9.9991	9.7748	1.3649e-01	8.7034e-01
94	PAN120224	10.7355	11.2696	11.0133	1.1196e-01	8.7044e-01
95	PAN130224	9.3374	9.7189	9.5358	1.2522e-01	8.7033e-01
96	PAN120312	10.9850	11.5191	11.2124	1.3392e-01	8.7045e-01
97	PAN130312	8.8298	9.4401	9.1334	1.3481e-01	8.7030e-01
98	PAB000136	36.2153	36.6273	36.4450	9.0373e-02	5.8711e-01
99	PAB100136	32.2820	32.5109	32.4066	4.9838e-02	5.8563e-01
100	PAB125136	31.2723	31.4096	31.3299	3.6773e-02	5.8526e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	35.8693	36.4796	36.1354	1.5340e-01	7.5542e-01
102	PRV000001	19.8053	19.9274	19.8175	3.6993e-02	7.5163e-01
103	PSR000001	30.0851	30.2072	30.1779	5.2663e-02	7.5379e-01
104	PFM000001	38.8044	39.9030	39.2584	2.5155e-01	5.0954e-01
105	PAN000136	137.5059	147.5767	141.7814	2.0836e+00	4.9328e+00
106	PFM000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0052	1.1714e-03	0.0000e+00
108	EMPTY	-10.0000	-8.6816	-9.7657	3.4908e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8331	1.0168e-01	8.1002e-01
113	VPW000002	-0.9812	-0.5906	-0.7703	7.7324e-02	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7705	1.1712e-01	8.1001e-01
115	VPW000004	-0.8166	-0.2306	-0.5431	1.1838e-01	8.1001e-01
116	VPW000005	-1.4872	-1.0966	-1.3231	9.9512e-02	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.3797	9.6332e-02	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.5259	1.0737e+00	8.1004e+00
119	IPW000002	-12.1072	-8.2047	-10.3901	1.2240e+00	8.1004e+00
120	IPW000003	-15.6468	-11.7468	-12.8778	1.0490e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9648	3.1195e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.6590	2.7264e-01	2.0002e+00
123	IPW000006	-2.9297	-1.4648	-2.4121	3.8725e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.3613e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.6118e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0183	3.0897e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.5030e-03	0.0000e+00
128	IHT000001	-0.2494	-0.0541	-0.1634	9.7935e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1441	1.1189e-01	4.1000e+00
130	IHT000003	-0.3294	-0.1341	-0.2513	9.6655e-02	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1766	7.5283e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1159	9.1354e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0083	1.1027e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.1073	1.0447e-01	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1591	9.6655e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1883	7.2866e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1053	8.8585e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1152	8.5454e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1761	1.2001e-01	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0405	1.0885e-01	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1092	1.0297e-01	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1345	9.8332e-02	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1356	8.6810e-02	4.1000e+00
144	IHT000017	-0.5859	0.1953	-0.0742	2.3308e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3730	1.1334e-01	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0244	5.3525e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0995	7.3716e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3334	9.9512e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1981	9.6655e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1319	7.5283e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2345	8.6541e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0734	9.6655e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0977	9.8648e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1367	9.0412e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0502	9.0412e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1280	9.6735e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1192	1.0052e-01	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0755	1.2283e-01	4.1000e+00
159	IHT000032	0.0000	0.3906	0.0508	9.5112e-02	4.1000e+00
160	IHT000033	37.3247	37.7153	37.3911	1.0145e-01	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0372	1.1838e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1009	1.1327e-01	4.1000e+00
163	IHT000036	-0.2353	0.3506	0.0186	1.0625e-01	4.1000e+00

Velocity 1 = 15.9051 (ft/sec) (+/- 3.5287 %)
Velocity 2 = 13.2410 (ft/sec) (+/- 3.4867 %)
Pressure drop = 5.1317 (psi)
Tsat in = 261.8305 (deg F) Tsat out = 252.9792 (deg F)
Phi inner = 0.0055 (kBtu/hr-ft2) (+/- 119.3100 %)
Phi outer = 0.0076 (kBtu/hr-ft2) (+/- 121.6885 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5481	1.6231e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1723	1.2393e-01	1.9000e+00
2	TFM000001	86.6611	87.2903	86.9927	1.5176e-01	1.9002e+00
3	TIN000001	86.8362	87.5712	87.2262	1.7281e-01	1.9002e+00
4	TRV000001	86.4197	87.3616	86.8648	2.7617e-01	1.9002e+00
5	TSR000001	87.0333	87.8709	87.4738	2.5051e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.0324	86.9747	86.6626	2.0440e-01	1.9002e+00
8	TAO070136	87.5291	88.4756	88.0547	1.9071e-01	1.9002e+00
9	TAO080136	87.2136	87.8420	87.6155	1.5150e-01	1.9002e+00
10	TAO090136	86.8788	87.9260	87.4152	1.8710e-01	1.9002e+00
11	TAO100136	87.1893	87.9235	87.6388	1.5582e-01	1.9002e+00
12	TAO105136	87.5467	88.1760	87.9683	1.6790e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.0755	1.3164e-01	1.9011e+00
14	TAO115136	86.6499	87.5961	87.1670	1.9538e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5468	4.5986e-02	1.9009e+00
16	TAO125136	87.0863	87.7154	87.4820	1.4234e-01	1.9002e+00
17	TAO130136	87.1435	87.7701	87.4644	1.5560e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2719	1.0221e-01	1.9011e+00
19	TAO130048	87.0465	87.7803	87.4488	1.7930e-01	1.9002e+00
20	TAO120224	86.8515	87.4812	87.2178	1.5606e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.9308	1.0904e-01	1.9010e+00
22	TAO120312	87.1306	87.8650	87.4243	1.7130e-01	1.9002e+00
23	TAO130312	86.7149	87.3443	87.0277	1.3111e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3479	2.0768e-01	1.9010e+00
25	TRT070000	86.8178	87.5548	87.2730	1.5250e-01	1.9002e+00
26	TRT100000	87.5285	88.1574	87.8857	1.7474e-01	1.9002e+00
27	TRT120000	87.2291	87.8585	87.5995	1.3888e-01	1.9002e+00
28	TRT125000	87.2093	88.0452	87.6971	1.8870e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5588	1.1459e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7181	2.1017e-01	1.9011e+00
31	TAF050136	87.2690	88.0016	87.5977	1.7743e-01	1.9002e+00
32	TAF070136	87.7603	88.8041	88.2353	2.1950e-01	1.9002e+00
33	TAF080136	87.1612	87.8939	87.5799	1.7964e-01	1.9002e+00
34	TAF090136	87.4411	88.3841	87.8944	2.6041e-01	1.9002e+00
35	TAF100136	86.8951	87.7351	87.3989	1.6595e-01	1.9002e+00
36	TAF105136	87.1716	88.1122	87.6964	2.3444e-01	1.9002e+00
37	TAF110136	86.8570	87.7994	87.4126	1.7523e-01	1.9002e+00
38	TAF115136	87.5334	88.3708	87.9737	1.7623e-01	1.9002e+00
39	TAF120136	87.3136	87.8383	87.6049	1.2163e-01	1.9002e+00
40	TAF125136	87.4844	88.1121	87.8192	1.5683e-01	1.9002e+00
41	TAF130136	87.2843	87.9137	87.6633	1.4171e-01	1.9002e+00
42	TAF120048	87.5053	88.3483	87.9801	2.1201e-01	1.9002e+00
43	TAF130048	87.1030	87.7328	87.4138	1.6161e-01	1.9002e+00
44	TAF120224	87.2182	88.0567	87.6549	2.0560e-01	1.9002e+00
45	TAF130224	86.8486	87.3735	87.1443	1.1868e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0725	1.8411e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1605	9.8423e-02	1.9010e+00
48	TAI130048	87.2998	88.4531	87.7853	2.9786e-01	1.9002e+00
49	TAI130136	86.7171	87.6600	87.1963	1.8992e-01	1.9002e+00
50	TAI130224	87.0585	88.4238	87.7960	2.8079e-01	1.9002e+00
51	TAI130312	86.7756	87.7203	87.2298	1.9915e-01	1.9002e+00
52	TRR130000	86.5483	87.4907	87.0125	2.5376e-01	1.9002e+00
53	TSI000001	79.6180	80.4612	80.0916	1.5979e-01	1.9001e+00
54	TSI000002	70.5115	71.5733	71.0164	2.8376e-01	1.9000e+00
55	TSO000001	67.2332	68.1951	67.7699	1.7938e-01	1.9000e+00
56	TSO000002	79.6843	80.5285	80.1497	1.8648e-01	1.9001e+00
57	TAF020136	86.7720	87.6145	87.1841	1.8845e-01	1.9002e+00
58	TAF120312	74.7452	75.6986	75.1623	2.5339e-01	1.9000e+00
59	TAF130312	86.4062	87.2451	86.8833	1.7131e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4816	2.3783e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4960	2.4414e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5092	2.2287e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5260	2.1781e-03	0.0000e+00
64	EMPTY	0.3271	0.3369	0.3321	1.2165e-03	0.0000e+00
65	EMPTY	0.3516	0.3564	0.3517	6.9754e-04	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3687	2.4662e-03	0.0000e+00
67	EMPTY	0.3857	0.3906	0.3858	6.9754e-04	0.0000e+00
68	EMPTY	0.4004	0.4004	0.4004	0.0000e+00	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4196	1.1827e-03	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4347	6.9754e-04	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4589	6.9754e-04	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4735	6.9754e-04	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4931	6.9754e-04	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5077	6.9754e-04	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5251	2.4621e-03	0.0000e+00
76	EMPTY	0.5371	0.5420	0.5401	2.4037e-03	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5592	2.4621e-03	0.0000e+00
78	EMPTY	0.5762	0.5859	0.5814	1.5467e-03	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6056	6.9754e-04	0.0000e+00
80	PAN020136	14.8275	19.1000	16.6866	7.8065e-01	8.7100e-01
81	PAN050136	33.1459	34.3666	33.6660	2.9535e-01	1.6821e+00
82	PAN070136	23.5106	24.5787	24.1427	2.8547e-01	8.7209e-01
83	PAN080136	10.0915	10.7781	10.3671	1.6975e-01	8.7039e-01
84	PAN090136	9.9478	10.5581	10.2405	1.4046e-01	8.7038e-01
85	PAN100136	10.8207	11.3548	11.0776	1.3001e-01	8.7044e-01
86	PAN105136	7.8620	8.3961	8.0769	1.0173e-01	8.7023e-01
87	PAN110136	6.6296	7.0111	6.8040	9.9719e-02	8.7017e-01
88	PAN115136	7.0537	7.8166	7.4071	1.4416e-01	8.7020e-01
89	PAN120136	3.3637	3.8977	3.6517	1.1785e-01	8.7005e-01
90	PAN125136	4.6532	5.1873	4.9506	1.1148e-01	8.7009e-01
91	PAN130136	3.5543	4.0121	3.7568	1.0625e-01	8.7005e-01
92	PAN120048	9.6558	10.1899	9.9407	1.3376e-01	8.7035e-01
93	PAN130048	9.3887	10.0754	9.7609	1.3454e-01	8.7034e-01
94	PAN120224	10.7355	11.3459	11.0392	1.2699e-01	8.7044e-01
95	PAN130224	9.1848	9.7952	9.5351	1.3747e-01	8.7033e-01
96	PAN120312	10.9850	11.5191	11.1890	1.2496e-01	8.7045e-01
97	PAN130312	8.9061	9.4401	9.1630	1.1412e-01	8.7030e-01
98	PAB000136	36.2610	36.6730	36.4348	1.0192e-01	5.8711e-01
99	PAB100136	32.2820	32.4652	32.3970	4.7758e-02	5.8563e-01
100	PAB125136	31.2265	31.4096	31.3339	4.9928e-02	5.8527e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	35.7472	36.4796	36.1059	1.6791e-01	7.5541e-01
102	PRV000001	19.8053	19.9274	19.8128	2.9569e-02	7.5163e-01
103	PSR000001	30.0851	30.3292	30.1947	4.4885e-02	7.5379e-01
104	PFM000001	38.7128	40.0861	39.3630	3.1005e-01	5.0959e-01
105	PAN000136	138.4214	146.6612	142.0742	1.8839e+00	4.9328e+00
106	PFM000002	27.2165	27.2165	27.2165	1.1563e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0053	1.3508e-03	0.0000e+00
108	EMPTY	-10.0000	-9.0918	-9.8399	2.6188e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8446	9.2715e-02	8.1002e-01
113	VPW000002	-0.9812	-0.5906	-0.7820	6.2908e-02	8.1001e-01
114	VPW000003	-1.0166	-0.4306	-0.7575	1.0836e-01	8.1001e-01
115	VPW000004	-0.8166	-0.2306	-0.5495	1.2413e-01	8.1001e-01
116	VPW000005	-1.4872	-1.0966	-1.3238	1.0044e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.3719	1.0548e-01	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.5681	1.1847e+00	8.1004e+00
119	IPW000002	-12.1072	-8.2047	-10.0763	1.0507e+00	8.1004e+00
120	IPW000003	-15.6468	-9.7968	-12.6621	1.3263e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.8951	2.4414e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.6080	3.1931e-01	2.0002e+00
123	IPW000006	-2.9297	-1.9531	-2.3517	2.9354e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0213	3.8206e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.6370e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0179	2.8866e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	4.2358e-03	0.0000e+00
128	IHT000001	-0.4447	0.1412	-0.1697	1.1219e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1412	9.5812e-02	4.1000e+00
130	IHT000003	-0.3294	-0.1341	-0.2417	9.8153e-02	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1721	8.9148e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1086	8.5810e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	0.0106	1.0806e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0959	7.8092e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1638	9.1482e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1681	7.2937e-02	4.1000e+00
137	IHT000010	-0.1600	0.2306	-0.1082	9.5812e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1199	8.8965e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1574	1.0533e-01	4.1000e+00
140	IHT000013	-0.1694	0.4166	-0.0458	1.1755e-01	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1321	7.9736e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1722	9.3931e-02	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1439	7.5987e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0478	2.4096e-01	4.1000e+00
145	IHT000018	0.2753	0.4706	0.3710	9.8648e-02	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0081	8.3122e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0955	9.7323e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3368	8.9148e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1878	1.0204e-01	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1314	6.4688e-02	4.1000e+00
151	IHT000024	-0.2853	0.1053	-0.2295	9.7656e-02	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.0631	1.0204e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0638	1.1546e-01	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1355	9.0949e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0506	9.9629e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1473	7.9328e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1472	1.0044e-01	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1027	1.2582e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0678	9.3931e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3964	9.5132e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0436	1.1059e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1068	1.2041e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0161	1.1014e-01	4.1000e+00

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Velocity 1 = 0.021100 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.010600 (psi)

Tsat in = 0.016602 (deg F) Tsat out = 0.007401 (deg F)

Phi inner = 0.000200 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0310	0.0416
1	TRF000002	0.0123	0.0164
2	TFM000001	0.0191	0.0220
3	TIN000001	0.0435	0.0499
4	TRV000001	0.0401	0.0462
5	TSR000001	0.0984	0.1126
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0584	0.0674
8	TAO070136	0.0485	0.0551
9	TAO080136	0.0266	0.0304
10	TAO090136	0.0396	0.0453
11	TAO100136	0.0225	0.0257
12	TAO105136	0.0378	0.0430
13	EMPTY	0.0110	0.0268
14	TAO115136	0.0233	0.0267
15	EMPTY	0.0002	0.0005
16	TAO125136	0.0119	0.0136
17	TAO130136	0.0126	0.0144
18	EMPTY	0.0058	0.0141
19	TAO130048	0.0151	0.0173
20	TAO120224	0.0659	0.0756
21	EMPTY	0.0508	0.1307
22	TAO120312	0.0226	0.0259
23	TAO130312	0.0085	0.0098
24	EMPTY	0.0098	0.0249
25	TRT070000	0.0098	0.0112
26	TRT100000	0.0473	0.0538
27	TRT120000	0.0220	0.0251
28	TRT125000	0.0262	0.0299
29	EMPTY	0.0056	0.0142
30	EMPTY	0.0252	0.0635
31	TAF050136	0.0333	0.0380
32	TAF070136	0.0032	0.0036
33	TAF080136	0.0144	0.0164
34	TAF090136	0.0517	0.0588
35	TAF100136	0.0269	0.0308
36	TAF105136	0.0955	0.1090
37	TAF110136	0.0047	0.0054
38	TAF115136	0.0151	0.0172
39	TAF120136	0.0173	0.0197
40	TAF125136	0.0023	0.0026
41	TAF130136	0.0285	0.0325
42	TAF120048	0.0265	0.0301
43	TAF130048	0.0271	0.0310
44	TAF120224	0.0024	0.0027
45	TAF130224	0.0334	0.0383

#	Name	Abs Diff	%Diff
46	EMPTY	0.0015	0.0039
47	EMPTY	0.0043	0.0110
48	TAI130048	0.0096	0.0109
49	TAI130136	0.0302	0.0346
50	TAI130224	0.0211	0.0240
51	TAI130312	0.0195	0.0224
52	TRR130000	0.0034	0.0039
53	TSI000001	0.0223	0.0278
54	TSI000002	0.0536	0.0754
55	TSO000001	0.0087	0.0128
56	TSO000002	0.0223	0.0278
57	TAF020136	0.0190	0.0218
58	TAF120312	0.0040	0.0053
59	TAF130312	0.0198	0.0228
60	EMPTY	0.0014	0.2915
61	EMPTY	0.0009	0.1818
62	EMPTY	0.0002	0.0393
63	EMPTY	0.0006	0.1142
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0002	0.0568
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0001	0.0259
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0001	0.0238
70	EMPTY	0.0001	0.0230
71	EMPTY	0.0002	0.0436
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0003	0.0609
74	EMPTY	0.0001	0.0197
75	EMPTY	0.0017	0.3248
76	EMPTY	0.0005	0.0927
77	EMPTY	0.0008	0.1433
78	EMPTY	0.0003	0.0516
79	EMPTY	0.0001	0.0165
80	PAN020136	0.1470	0.8888
81	PAN050136	0.0440	0.1309
82	PAN070136	0.0515	0.2129
83	PAN080136	0.0818	0.7953
84	PAN090136	0.0440	0.4315
85	PAN100136	0.0036	0.0325
86	PAN105136	0.0186	0.2298
87	PAN110136	0.0194	0.2843
88	PAN115136	0.0208	0.2816
89	PAN120136	0.0286	0.7894
90	PAN125136	0.0074	0.1497
91	PAN130136	0.0163	0.4358
92	PAN120048	0.0423	0.4273
93	PAN130048	0.0139	0.1422
94	PAN120224	0.0259	0.2352
95	PAN130224	0.0007	0.0073
96	PAN120312	0.0234	0.2087
97	PAN130312	0.0296	0.3241
98	PAB000136	0.0102	0.0280
99	PAB100136	0.0096	0.0296
100	PAB125136	0.0040	0.0128

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0295	0.0816
102	PRV000001	0.0047	0.0237
103	PSR000001	0.0168	0.0557
104	PFM000001	0.1046	0.2664
105	PAN000136	0.2928	0.2065
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.9231
108	EMPTY	0.0742	0.7598
109	EMPTY	0.0001	2.0833
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.0115	1.3804
113	VPW000002	0.0117	1.5189
114	VPW000003	0.0130	1.6872
115	VPW000004	0.0064	1.1784
116	VPW000005	0.0007	0.0529
117	VPW000006	0.0078	0.5653
118	IPW000001	0.0422	0.4430
119	IPW000002	0.3138	3.0202
120	IPW000003	0.2157	1.6750
121	IPW000004	0.0697	3.5474
122	IPW000005	0.0510	1.3938
123	IPW000006	0.0604	2.5040
124	EMPTY	0.0001	0.4717
125	EMPTY	0.0000	0.0000
126	EMPTY	0.0004	2.1858
127	EMPTY	0.0005	3.0675
128	IHT000001	0.0063	3.8556
129	IHT000002	0.0029	2.0125
130	IHT000003	0.0096	3.8201
131	IHT000004	0.0045	2.5481
132	IHT000005	0.0073	6.2985
133	IHT000006	0.0189	227.7108
134	IHT000007	0.0114	10.6244
135	IHT000008	0.0047	2.9541
136	IHT000009	0.0202	10.7276
137	IHT000010	0.0029	2.7540
138	IHT000011	0.0047	4.0799
139	IHT000012	0.0187	10.6190
140	IHT000013	0.0053	13.0864
141	IHT000014	0.0229	20.9707
142	IHT000015	0.0377	28.0297
143	IHT000016	0.0083	6.1209
144	IHT000017	0.0264	35.5795
145	IHT000018	0.0020	0.5362
146	IHT000019	0.0163	66.8033
147	IHT000020	0.0040	4.0201
148	IHT000021	0.0034	0.1020
149	IHT000022	0.0103	5.1994
150	IHT000023	0.0005	0.3791
151	IHT000024	0.0050	2.1322
152	IHT000025	0.0103	14.0327
153	IHT000026	0.0339	34.6981
154	IHT000027	0.0012	0.8778
155	IHT000028	0.0004	0.7968

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0193	15.0781
157	IHT000030	0.0280	23.4899
158	IHT000031	0.0272	36.0265
159	IHT000032	0.0170	33.4646
160	IHT000033	0.0053	0.0142
161	IHT000034	0.0064	17.2043
162	IHT000035	0.0059	5.8474
163	IHT000036	0.0347	186.5591

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sum1

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Velocity 1 = 14.1880 (ft/sec) (+/- 3.5618 %)
Velocity 2 = 13.2401 (ft/sec) (+/- 3.4867 %)
Pressure drop = 3.1340 (psi)
Tsats in = 258.0455 (deg F) Tsats out = 252.3590 (deg F)
Phi inner = 0.0054 (kBtu/hr-ft2) (+/- 120.3976 %)
Phi outer = 0.0078 (kBtu/hr-ft2) (+/- 120.4660 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5536	1.6523e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1846	1.0772e-01	1.9000e+00
2	TFM000001	85.6137	86.5575	86.1862	2.1619e-01	1.9002e+00
3	TIN000001	85.9950	86.9409	86.4849	1.9531e-01	1.9002e+00
4	TRV000001	85.4805	86.8396	86.2226	3.4793e-01	1.9002e+00
5	TSR000001	86.9296	88.0796	87.6216	3.0858e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	85.4058	86.3481	85.8603	2.1008e-01	1.9002e+00
8	TAO070136	86.8963	87.6335	87.3029	1.6325e-01	1.9002e+00
9	TAO080136	86.4845	87.1133	86.8303	1.4831e-01	1.9002e+00
10	TAO090136	86.2508	87.0893	86.6260	1.8590e-01	1.9002e+00
11	TAO100136	86.4562	87.0856	86.8526	1.5034e-01	1.9002e+00
12	TAO105136	86.7071	87.5466	87.1541	1.9647e-01	1.9002e+00
13	EMPTY	40.7527	41.2111	41.0828	1.2390e-01	1.9011e+00
14	TAO115136	85.9119	86.8591	86.4743	2.2567e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5466	4.5533e-02	1.9009e+00
16	TAO125136	86.4588	87.0883	86.7381	1.5359e-01	1.9002e+00
17	TAO130136	86.3202	87.0487	86.6711	1.8320e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2616	9.5880e-02	1.9011e+00
19	TAO130048	86.3156	86.9445	86.6864	1.4398e-01	1.9002e+00
20	TAO120224	86.0128	86.7479	86.4057	1.5558e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.9030	1.1750e-01	1.9010e+00
22	TAO120312	86.2912	87.0266	86.6086	1.5800e-01	1.9002e+00
23	TAO130312	85.9829	86.6126	86.2958	1.6060e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3347	1.7780e-01	1.9010e+00
25	TRT070000	86.2874	86.8157	86.5139	1.4589e-01	1.9002e+00
26	TRT100000	86.4829	87.5305	87.0968	2.2286e-01	1.9002e+00
27	TRT120000	86.3910	87.1257	86.8214	1.4569e-01	1.9002e+00
28	TRT125000	86.5839	87.3160	86.9171	1.7500e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5965	1.1322e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7342	2.0297e-01	1.9011e+00
31	TAF050136	86.5370	87.1663	86.7996	1.6293e-01	1.9002e+00
32	TAF070136	86.9270	87.8669	87.4763	1.7878e-01	1.9002e+00
33	TAF080136	86.4337	87.0621	86.7626	1.6220e-01	1.9002e+00
34	TAF090136	86.6031	87.6514	87.1921	2.7589e-01	1.9002e+00
35	TAF100136	86.2650	86.8955	86.5825	1.4930e-01	1.9002e+00
36	TAF105136	86.3410	87.2804	86.8394	2.2527e-01	1.9002e+00
37	TAF110136	86.2313	86.9643	86.6143	1.7268e-01	1.9002e+00
38	TAF115136	86.8007	87.5344	87.1633	1.7988e-01	1.9002e+00
39	TAF120136	86.5838	87.0041	86.7836	1.0664e-01	1.9002e+00
40	TAF125136	86.7559	87.2793	87.0213	1.3403e-01	1.9002e+00
41	TAF130136	86.5516	87.0762	86.8390	1.1959e-01	1.9002e+00
42	TAF120048	86.7651	87.6086	87.1681	1.9834e-01	1.9002e+00
43	TAF130048	86.3691	86.8941	86.6232	1.3261e-01	1.9002e+00
44	TAF120224	86.4845	87.3240	86.8437	1.7862e-01	1.9002e+00
45	TAF130224	86.0040	86.5299	86.3050	1.1438e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0664	1.6909e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1465	4.6398e-02	1.9010e+00
48	TAI130048	86.3554	87.5096	86.9745	3.0657e-01	1.9002e+00
49	TAI130136	85.9855	86.8233	86.3987	2.1306e-01	1.9002e+00
50	TAI130224	86.5323	87.5834	86.9971	2.8575e-01	1.9002e+00
51	TAI130312	85.8298	86.8806	86.3911	2.1075e-01	1.9002e+00
52	TRR130000	86.0258	86.6547	86.2878	1.7351e-01	1.9002e+00
53	TSI000001	79.7234	80.4612	80.1138	1.5250e-01	1.9001e+00
54	TSI000002	70.6176	71.5733	71.1081	2.4246e-01	1.9000e+00
55	TSO000001	67.3397	68.1951	67.8212	1.7456e-01	1.9000e+00
56	TSO000002	79.6843	80.5285	80.0960	2.0371e-01	1.9001e+00
57	TAF020136	86.0316	86.7699	86.3963	1.8107e-01	1.9002e+00
58	TAF120312	74.6392	75.6986	75.1709	2.5088e-01	1.9000e+00
59	TAF130312	85.7769	86.6166	86.1320	1.6398e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4636	1.1714e-03	0.0000e+00
61	EMPTY	0.4736	0.4834	0.4783	1.3811e-03	0.0000e+00
62	EMPTY	0.4932	0.4932	0.4932	0.0000e+00	0.0000e+00
63	EMPTY	0.5078	0.5127	0.5084	1.6028e-03	0.0000e+00
64	EMPTY	0.3223	0.3271	0.3237	2.2603e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3450	2.3365e-03	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3612	6.9053e-04	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3785	2.4642e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3918	2.1065e-03	0.0000e+00
69	EMPTY	0.4102	0.4150	0.4103	6.9053e-04	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4264	2.3008e-03	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4496	1.3381e-03	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4640	6.9053e-04	0.0000e+00
73	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4987	1.7115e-03	0.0000e+00
75	EMPTY	0.5176	0.5176	0.5176	0.0000e+00	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5323	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5757	1.4797e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5967	1.9730e-03	0.0000e+00
80	PAN020136	8.8766	11.3943	10.2484	5.2282e-01	8.7038e-01
81	PAN050136	19.1078	20.4811	19.8311	2.4432e-01	1.6807e+00
82	PAN070136	15.1182	16.3389	15.7835	2.3631e-01	8.7089e-01
83	PAN080136	5.4376	5.9716	5.7107	1.0350e-01	8.7012e-01
84	PAN090136	5.6753	6.0568	5.8737	9.5016e-02	8.7012e-01
85	PAN100136	6.6245	7.0823	6.7939	1.0931e-01	8.7017e-01
86	PAN105136	5.6495	6.1073	5.8448	1.0243e-01	8.7012e-01
87	PAN110136	4.4171	4.6460	4.5285	6.2058e-02	8.7007e-01
88	PAN115136	3.9256	4.2308	4.0614	8.8933e-02	8.7006e-01
89	PAN120136	1.8378	2.2193	2.0316	9.4024e-02	8.7001e-01
90	PAN125136	2.3644	2.7459	2.4789	8.3362e-02	8.7002e-01
91	PAN130136	2.1048	2.4862	2.2543	9.7436e-02	8.7002e-01
92	PAN120048	5.3070	5.7648	5.5176	1.0289e-01	8.7011e-01
93	PAN130048	5.0400	5.4977	5.2948	8.9360e-02	8.7010e-01
94	PAN120224	6.2342	6.6920	6.5134	1.1494e-01	8.7015e-01
95	PAN130224	5.0649	5.3701	5.1916	7.4895e-02	8.7010e-01
96	PAN120312	6.2548	6.7126	6.5463	9.9523e-02	8.7015e-01
97	PAN130312	4.4810	4.9388	4.8015	1.0790e-01	8.7008e-01
98	PAB000136	34.0180	34.4300	34.1672	7.7271e-02	5.8626e-01
99	PAB100136	31.5496	31.7327	31.6430	4.5269e-02	5.8537e-01
100	PAB125136	30.9518	31.0892	31.0022	3.7281e-02	5.8516e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	33.5500	34.0382	33.8112	9.2309e-02	7.5475e-01
102	PRV000001	19.6832	19.8053	19.6906	2.9284e-02	7.5161e-01
103	PSR000001	30.0851	30.2072	30.1437	6.1605e-02	7.5378e-01
104	PFM000001	30.9308	31.7548	31.2824	2.3203e-01	5.0608e-01
105	PAN000136	83.4898	90.8140	86.7674	1.3883e+00	4.9248e+00
106	PFM000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-9.1113	-9.7827	2.8768e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8370	9.0412e-02	8.1002e-01
113	VPW000002	-0.9812	-0.5906	-0.7859	9.6655e-02	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7392	1.0507e-01	8.1001e-01
115	VPW000004	-0.8166	-0.4259	-0.6134	9.6332e-02	8.1001e-01
116	VPW000005	-1.4872	-1.0966	-1.3427	1.0297e-01	8.1004e-01
117	VPW000006	-1.7625	-1.1766	-1.4148	1.2658e-01	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.7211	1.2696e+00	8.1004e+00
119	IPW000002	-12.1072	-6.2534	-10.2340	1.4192e+00	8.1004e+00
120	IPW000003	-15.6468	-11.7468	-12.5268	1.0423e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9746	3.0389e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.6492	2.9608e-01	2.0002e+00
123	IPW000006	-3.4180	-1.4648	-2.3828	4.0241e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0208	3.3901e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.7832e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0180	3.1874e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.5238e-03	0.0000e+00
128	IHT000001	-0.2494	-0.0541	-0.1673	9.7377e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1128	9.3710e-02	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2434	1.0559e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1375	9.2034e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1042	8.1347e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0161	1.0625e-01	4.1000e+00
134	IHT000007	-0.2753	-0.0800	-0.0956	5.3525e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1591	7.8918e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1766	7.5283e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.0897	9.4702e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1191	8.8233e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1995	1.0507e-01	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0287	8.8585e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1287	9.1354e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1384	9.8569e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1434	6.4113e-02	4.1000e+00
144	IHT000017	-0.3906	0.5859	-0.0273	2.4959e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3925	1.0440e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0361	6.2265e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1230	7.1136e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3334	8.2393e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.2098	9.8332e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1397	6.6498e-02	4.1000e+00
151	IHT000024	-0.4806	-0.0900	-0.2619	7.5283e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0539	9.0412e-02	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0703	1.0259e-01	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1211	9.5765e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0306	1.0440e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1358	9.0412e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1231	8.7880e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1028	1.1133e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0547	8.8585e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3989	9.5765e-02	4.1170e+00
161	IHT000034	-0.2753	0.3106	0.0372	1.1161e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.0970	1.1306e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0048	9.4125e-02	4.1000e+00

Velocity 1 = 14.1584 (ft/sec) (+/- 3.5626 %)
 Velocity 2 = 13.2401 (ft/sec) (+/- 3.4867 %)
 Pressure drop = 3.1365 (psi)
 Tsat in = 258.0218 (deg F) Tsat out = 252.3452 (deg F)
 Phi inner = 0.0057 (kBtu/hr-ft2) (+/- 117.4352 %)
 Phi outer = 0.0079 (kBtu/hr-ft2) (+/- 120.1729 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5264	1.6124e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1939	1.2933e-01	1.9000e+00
2	TFM000001	85.7186	86.5571	86.1807	1.9488e-01	1.9002e+00
3	TIN000001	86.2053	86.8357	86.5142	1.2760e-01	1.9002e+00
4	TRV000001	86.1064	86.8396	86.4638	1.6401e-01	1.9002e+00
5	TSR000001	87.4519	88.0791	87.7591	1.3420e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	85.5106	86.3477	85.8652	1.9327e-01	1.9002e+00
8	TAO070136	86.8967	87.7381	87.2510	1.9163e-01	1.9002e+00
9	TAO080136	86.4845	87.2170	86.8542	1.7093e-01	1.9002e+00
10	TAO090136	86.2503	87.0893	86.6293	2.0720e-01	1.9002e+00
11	TAO100136	86.5609	87.1900	86.8691	1.4112e-01	1.9002e+00
12	TAO105136	86.7066	87.5466	87.1289	1.8861e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.0802	1.2377e-01	1.9011e+00
14	TAO115136	86.0172	86.8591	86.4019	2.2991e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5656	7.6185e-02	1.9010e+00
16	TAO125136	86.4588	87.0883	86.7010	1.5613e-01	1.9002e+00
17	TAO130136	86.4217	86.9435	86.6422	1.3355e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2579	9.3303e-02	1.9011e+00
19	TAO130048	86.4203	86.9445	86.7109	1.3584e-01	1.9002e+00
20	TAO120224	86.2225	86.7479	86.4008	1.2715e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8792	1.1814e-01	1.9010e+00
22	TAO120312	86.2917	87.0261	86.6279	1.4206e-01	1.9002e+00
23	TAO130312	85.9829	86.6126	86.3191	1.4194e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3480	1.7305e-01	1.9010e+00
25	TRT070000	86.1826	86.8157	86.5401	1.5172e-01	1.9002e+00
26	TRT100000	86.6926	87.5305	87.1349	1.8417e-01	1.9002e+00
27	TRT120000	86.6006	87.2304	86.8514	1.4175e-01	1.9002e+00
28	TRT125000	86.5839	87.2125	86.9067	1.7947e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6057	9.3714e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6619	2.0706e-01	1.9011e+00
31	TAF050136	86.5370	87.1663	86.7750	1.5380e-01	1.9002e+00
32	TAF070136	86.9270	87.8669	87.4023	2.3349e-01	1.9002e+00
33	TAF080136	86.4342	87.1654	86.7606	1.5774e-01	1.9002e+00
34	TAF090136	86.4978	87.5463	87.0566	3.0135e-01	1.9002e+00
35	TAF100136	86.2650	86.8955	86.5590	1.4849e-01	1.9002e+00
36	TAF105136	86.4444	87.2786	86.9110	1.9985e-01	1.9002e+00
37	TAF110136	86.3350	86.8591	86.6070	1.3999e-01	1.9002e+00
38	TAF115136	86.8007	87.5340	87.1578	1.6971e-01	1.9002e+00
39	TAF120136	86.5838	87.0041	86.7747	1.1478e-01	1.9002e+00
40	TAF125136	86.7554	87.2793	87.0117	1.4803e-01	1.9002e+00
41	TAF130136	86.5516	87.0762	86.8298	1.2223e-01	1.9002e+00
42	TAF120048	86.6604	87.6091	87.1484	2.3158e-01	1.9002e+00
43	TAF130048	86.2643	86.8941	86.6304	1.5320e-01	1.9002e+00
44	TAF120224	86.4850	87.3240	86.8381	1.7615e-01	1.9002e+00
45	TAF130224	86.1094	86.5299	86.3004	1.1482e-01	1.9002e+00

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100

Silver Spring, Maryland 20910

301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0725	2.0666e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1511	5.7217e-02	1.9010e+00
48	TAI130048	86.3554	87.6142	86.9679	3.0004e-01	1.9002e+00
49	TAI130136	85.9855	86.8242	86.4199	1.9943e-01	1.9002e+00
50	TAI130224	86.4272	87.3736	86.9851	2.6736e-01	1.9002e+00
51	TAI130312	86.0399	86.8807	86.4282	2.0481e-01	1.9002e+00
52	TRR130000	85.9205	86.7595	86.2995	2.0492e-01	1.9002e+00
53	TSI000001	79.7234	80.5670	80.1131	1.6275e-01	1.9001e+00
54	TSI000002	70.5115	71.5728	71.1072	2.7726e-01	1.9000e+00
55	TSO000001	67.4465	68.0888	67.8048	1.7266e-01	1.9000e+00
56	TSO000002	79.5785	80.6343	80.0678	2.2973e-01	1.9001e+00
57	TAF020136	86.0307	86.6634	86.3261	1.7201e-01	1.9002e+00
58	TAF120312	74.6392	75.4869	75.1191	2.2269e-01	1.9000e+00
59	TAF130312	85.8822	86.4071	86.1563	1.3850e-01	1.9002e+00
60	EMPTY	0.4590	0.4688	0.4642	1.5467e-03	0.0000e+00
61	EMPTY	0.4785	0.4834	0.4788	1.1827e-03	0.0000e+00
62	EMPTY	0.4932	0.4980	0.4934	9.7615e-04	0.0000e+00
63	EMPTY	0.5078	0.5127	0.5088	1.9883e-03	0.0000e+00
64	EMPTY	0.3223	0.3271	0.3235	2.1215e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3449	2.3783e-03	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3612	6.9754e-04	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3780	2.4247e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3912	1.6172e-03	0.0000e+00
69	EMPTY	0.4102	0.4102	0.4102	0.0000e+00	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4254	1.6172e-03	0.0000e+00
71	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4641	9.7615e-04	0.0000e+00
73	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4981	6.9754e-04	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5174	9.7615e-04	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5321	6.9754e-04	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5517	6.9754e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5740	2.4538e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5961	1.3508e-03	0.0000e+00
80	PAN020136	9.4869	11.6995	10.3698	5.8291e-01	8.7039e-01
81	PAN050136	19.4130	20.1759	19.8116	2.3887e-01	1.6807e+00
82	PAN070136	15.3471	16.1863	15.7659	2.0133e-01	8.7089e-01
83	PAN080136	5.4376	5.9716	5.6945	1.1726e-01	8.7012e-01
84	PAN090136	5.5990	6.0568	5.8871	1.0361e-01	8.7012e-01
85	PAN100136	6.6245	7.0060	6.7958	9.5406e-02	8.7017e-01
86	PAN105136	5.5732	6.0310	5.8363	9.0890e-02	8.7012e-01
87	PAN110136	4.4171	4.6460	4.5261	6.4211e-02	8.7007e-01
88	PAN115136	3.8493	4.2308	4.0330	9.8395e-02	8.7006e-01
89	PAN120136	1.7615	2.2193	2.0355	8.6595e-02	8.7001e-01
90	PAN125136	2.3644	2.5933	2.4641	7.1712e-02	8.7002e-01
91	PAN130136	2.1048	2.4099	2.2573	9.6001e-02	8.7002e-01
92	PAN120048	5.2307	5.7648	5.5141	1.0677e-01	8.7011e-01
93	PAN130048	5.1163	5.4977	5.2829	1.0292e-01	8.7010e-01
94	PAN120224	6.2342	6.6920	6.5005	1.0915e-01	8.7015e-01
95	PAN130224	4.9886	5.4464	5.2082	1.0404e-01	8.7010e-01
96	PAN120312	6.3311	6.7889	6.5288	1.1852e-01	8.7015e-01
97	PAN130312	4.6336	4.9388	4.7924	8.7872e-02	8.7008e-01
98	PAB000136	34.0180	34.2927	34.1534	7.1137e-02	5.8625e-01
99	PAB100136	31.5496	31.7327	31.6440	3.7850e-02	5.8537e-01
100	PAB125136	30.9061	31.0892	30.9948	3.8986e-02	5.8515e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	33.5500	34.0382	33.7766	1.2207e-01	7.5474e-01
102	PRV000001	19.6832	19.8053	19.6882	2.4404e-02	7.5161e-01
103	PSR000001	30.0851	30.2072	30.1100	4.9708e-02	7.5377e-01
104	PFM000001	30.7477	31.5717	31.1513	2.3633e-01	5.0603e-01
105	PAN000136	83.9476	89.4407	86.8342	1.4810e+00	4.9248e+00
106	PFM000002	27.2165	27.2165	27.2165	1.1563e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0051	9.7615e-04	0.0000e+00
108	EMPTY	-10.0000	-8.8965	-9.6874	3.3416e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0044	1.4934e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8366	9.1305e-02	8.1002e-01
113	VPW000002	-0.9812	-0.5906	-0.7899	9.3412e-02	8.1001e-01
114	VPW000003	-1.0166	-0.4306	-0.7734	1.0188e-01	8.1001e-01
115	VPW000004	-0.8166	-0.4259	-0.6053	1.1851e-01	8.1001e-01
116	VPW000005	-1.6825	-1.0966	-1.3437	1.3087e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.3838	1.0851e-01	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.5681	1.1156e+00	8.1004e+00
119	IPW000002	-12.1072	-8.2047	-10.5144	1.2388e+00	8.1004e+00
120	IPW000003	-15.6468	-11.7468	-12.9805	1.0298e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9848	2.2196e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.6678	3.1899e-01	2.0002e+00
123	IPW000006	-2.9297	-1.4648	-2.3418	3.7266e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0207	3.0770e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0147	2.9041e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0180	2.8548e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.7806e-03	0.0000e+00
128	IHT000001	-0.4447	0.1412	-0.1617	1.2646e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1332	1.1462e-01	4.1000e+00
130	IHT000003	-0.3294	0.0613	-0.2297	1.0640e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1482	8.7123e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1046	8.2141e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0133	1.0548e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0920	9.2715e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1678	9.3759e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1681	7.2937e-02	4.1000e+00
137	IHT000010	-0.3553	0.0353	-0.1082	9.5812e-02	4.1000e+00
138	IHT000011	-0.2753	-0.0800	-0.1278	8.4860e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.2012	1.0548e-01	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0339	1.0701e-01	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1441	1.1161e-01	4.1000e+00
142	IHT000015	-0.2400	0.1506	-0.1523	1.0594e-01	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1559	8.6187e-02	4.1000e+00
144	IHT000017	-0.3906	0.5859	-0.0080	2.6732e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3989	1.1755e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0320	6.8582e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0995	7.4477e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3368	7.9736e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1917	1.0315e-01	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1354	5.9734e-02	4.1000e+00
151	IHT000024	-0.4806	-0.0900	-0.2136	1.0315e-01	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.0830	1.0594e-01	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0717	9.5132e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1355	9.0949e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0386	1.0517e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1274	7.9736e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1313	9.6318e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1226	1.1560e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0757	9.6150e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.4124	9.8153e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0595	1.1960e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.1507	1.3681e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	0.0078	1.0941e-01	4.1000e+00

Velocity 1 = 0.029600 (ft/sec)
 Velocity 2 = 0.000000 (ft/sec)
 Pressure Drop = 0.002500 (psi)
 Tsat in = 0.023712 (deg F) Tsat out = 0.013794 (deg F)
 Phi inner = 0.000300 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0272	0.0365
1	TRF000002	0.0093	0.0124
2	TFM000001	0.0055	0.0064
3	TIN000001	0.0293	0.0339
4	TRV000001	0.2412	0.2797
5	TSR000001	0.1375	0.1569
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0049	0.0057
8	TAO070136	0.0519	0.0595
9	TAO080136	0.0239	0.0275
10	TAO090136	0.0033	0.0038
11	TAO100136	0.0165	0.0190
12	TAO105136	0.0252	0.0289
13	EMPTY	0.0026	0.0063
14	TAO115136	0.0724	0.0837
15	EMPTY	0.0190	0.0506
16	TAO125136	0.0371	0.0428
17	TAO130136	0.0289	0.0333
18	EMPTY	0.0037	0.0090
19	TAO130048	0.0245	0.0283
20	TAO120224	0.0049	0.0057
21	EMPTY	0.0238	0.0612
22	TAO120312	0.0193	0.0223
23	TAO130312	0.0233	0.0270
24	EMPTY	0.0133	0.0338
25	TRT070000	0.0262	0.0303
26	TRT100000	0.0381	0.0437
27	TRT120000	0.0300	0.0346
28	TRT125000	0.0104	0.0120
29	EMPTY	0.0092	0.0232
30	EMPTY	0.0723	0.1820
31	TAF050136	0.0246	0.0283
32	TAF070136	0.0740	0.0846
33	TAF080136	0.0020	0.0023
34	TAF090136	0.1355	0.1554
35	TAF100136	0.0235	0.0271
36	TAF105136	0.0716	0.0825
37	TAF110136	0.0073	0.0084
38	TAF115136	0.0055	0.0063
39	TAF120136	0.0089	0.0103
40	TAF125136	0.0096	0.0110
41	TAF130136	0.0092	0.0106
42	TAF120048	0.0197	0.0226
43	TAF130048	0.0072	0.0083
44	TAF120224	0.0056	0.0064
45	TAF130224	0.0046	0.0053

#	Name	Abs Diff	%Diff
46	EMPTY	0.0061	0.0160
47	EMPTY	0.0046	0.0118
48	TAI130048	0.0066	0.0076
49	TAI130136	0.0212	0.0245
50	TAI130224	0.0120	0.0138
51	TAI130312	0.0371	0.0429
52	TRR130000	0.0117	0.0136
53	TSI000001	0.0007	0.0009
54	TSI000002	0.0009	0.0013
55	TSO000001	0.0164	0.0242
56	TSO000002	0.0282	0.0352
57	TAF020136	0.0702	0.0813
58	TAF120312	0.0518	0.0689
59	TAF130312	0.0243	0.0282
60	EMPTY	0.0006	0.1294
61	EMPTY	0.0005	0.1045
62	EMPTY	0.0002	0.0406
63	EMPTY	0.0004	0.0787
64	EMPTY	0.0002	0.0618
65	EMPTY	0.0001	0.0290
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0005	0.1321
68	EMPTY	0.0006	0.1531
69	EMPTY	0.0001	0.0244
70	EMPTY	0.0010	0.2345
71	EMPTY	0.0004	0.0890
72	EMPTY	0.0001	0.0216
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0006	0.1203
75	EMPTY	0.0002	0.0386
76	EMPTY	0.0002	0.0376
77	EMPTY	0.0001	0.0181
78	EMPTY	0.0017	0.2953
79	EMPTY	0.0006	0.1006
80	PAN020136	0.1214	1.1846
81	PAN050136	0.0195	0.0983
82	PAN070136	0.0176	0.1115
83	PAN080136	0.0162	0.2837
84	PAN090136	0.0134	0.2281
85	PAN100136	0.0019	0.0280
86	PAN105136	0.0085	0.1454
87	PAN110136	0.0024	0.0530
88	PAN115136	0.0284	0.6993
89	PAN120136	0.0039	0.1920
90	PAN125136	0.0148	0.5970
91	PAN130136	0.0030	0.1331
92	PAN120048	0.0035	0.0634
93	PAN130048	0.0119	0.2247
94	PAN120224	0.0129	0.1981
95	PAN130224	0.0166	0.3197
96	PAN120312	0.0175	0.2673
97	PAN130312	0.0091	0.1895
98	PAB000136	0.0138	0.0404
99	PAB100136	0.0010	0.0032
100	PAB125136	0.0074	0.0239

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0346	0.1023
102	PRV000001	0.0024	0.0122
103	PSR000001	0.0337	0.1118
104	PFM000001	0.1311	0.4191
105	PAN000136	0.0668	0.0770
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	2.0000
108	EMPTY	0.0953	0.9742
109	EMPTY	0.0003	6.3830
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.0004	0.0478
113	VPW000002	0.0040	0.5090
114	VPW000003	0.0342	4.6266
115	VPW000004	0.0081	1.3205
116	VPW000005	0.0010	0.0745
117	VPW000006	0.0310	2.1911
118	IPW000001	0.1530	1.5739
119	IPW000002	0.2804	2.7399
120	IPW000003	0.4537	3.6218
121	IPW000004	0.0102	0.5166
122	IPW000005	0.0186	0.5097
123	IPW000006	0.0410	1.7207
124	EMPTY	0.0001	0.4808
125	EMPTY	0.0002	1.3793
126	EMPTY	0.0000	0.0000
127	EMPTY	0.0002	1.2195
128	IHT000001	0.0056	3.3473
129	IHT000002	0.0204	18.0851
130	IHT000003	0.0137	5.6286
131	IHT000004	0.0107	7.7818
132	IHT000005	0.0004	0.3839
133	IHT000006	0.0028	17.3913
134	IHT000007	0.0036	3.7657
135	IHT000008	0.0087	5.4683
136	IHT000009	0.0085	4.8131
137	IHT000010	0.0185	20.6243
138	IHT000011	0.0087	7.3048
139	IHT000012	0.0017	0.8521
140	IHT000013	0.0052	18.1185
141	IHT000014	0.0154	11.9658
142	IHT000015	0.0139	10.0434
143	IHT000016	0.0125	8.7169
144	IHT000017	0.0193	70.6960
145	IHT000018	0.0064	1.6306
146	IHT000019	0.0041	11.3573
147	IHT000020	0.0235	19.1057
148	IHT000021	0.0034	0.1020
149	IHT000022	0.0181	8.6273
150	IHT000023	0.0043	3.0780
151	IHT000024	0.0483	18.4422
152	IHT000025	0.0291	53.9889
153	IHT000026	0.0014	1.9915
154	IHT000027	0.0144	11.8910
155	IHT000028	0.0080	26.1438

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0084	6.1856
157	IHT000030	0.0082	6.6613
158	IHT000031	0.0198	19.2607
159	IHT000032	0.0210	38.3912
160	IHT000033	0.0135	0.0361
161	IHT000034	0.0223	59.9462
162	IHT000035	0.0537	55.3608
163	IHT000036	0.0126	262.5000

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sum1

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Velocity 1 = 12.2277 (ft/sec) (+/- 3.6346 %)

Velocity 2 = 12.0668 (ft/sec) (+/- 3.4938 %)

Pressure drop = 1.0606 (psi)

Tsats in = 253.9641 (deg F) Tsats out = 251.8064 (deg F)

Phi inner = 0.0058 (kBtu/hr-ft2) (+/- 115.9989 %)

Phi outer = 0.0078 (kBtu/hr-ft2) (+/- 120.7589 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3963	74.8213	74.5621	1.6229e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1634	1.3104e-01	1.9000e+00
2	TFM000001	86.0328	86.8716	86.3894	1.8585e-01	1.9002e+00
3	TIN000001	86.4155	87.1510	86.7309	1.6160e-01	1.9002e+00
4	TRV000001	86.3159	87.0486	86.5592	1.6835e-01	1.9002e+00
5	TSR000001	87.3472	88.0791	87.6655	1.6502e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	85.7197	86.4529	85.9962	1.6495e-01	1.9002e+00
8	TAO070136	86.8971	87.7384	87.3640	2.1155e-01	1.9002e+00
9	TAO080136	86.5897	87.3217	86.9616	1.5557e-01	1.9002e+00
10	TAO090136	86.5649	87.1934	86.7412	1.6181e-01	1.9002e+00
11	TAO100136	86.6658	87.2952	86.9720	1.5980e-01	1.9002e+00
12	TAO105136	86.8118	87.7565	87.2696	2.0305e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.0965	1.3299e-01	1.9011e+00
14	TAO115136	86.2274	86.9645	86.5354	2.0490e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5559	6.3038e-02	1.9009e+00
16	TAO125136	86.4593	87.0883	86.8197	1.3755e-01	1.9002e+00
17	TAO130136	86.4221	87.0487	86.7351	1.4747e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2753	1.1377e-01	1.9011e+00
19	TAO130048	86.5247	87.1535	86.7763	1.3054e-01	1.9002e+00
20	TAO120224	86.2230	86.8526	86.5042	1.3143e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8846	1.1378e-01	1.9010e+00
22	TAO120312	86.2917	87.1313	86.7031	1.7726e-01	1.9002e+00
23	TAO130312	86.1926	86.6126	86.3899	1.1551e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3118	1.6752e-01	1.9010e+00
25	TRT070000	86.2892	86.9204	86.6386	1.5691e-01	1.9002e+00
26	TRT100000	86.7978	87.7395	87.2578	1.9270e-01	1.9002e+00
27	TRT120000	86.6011	87.2304	86.9617	1.5005e-01	1.9002e+00
28	TRT125000	86.5844	87.3160	86.9525	1.3382e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6148	1.1322e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6975	1.9674e-01	1.9011e+00
31	TAF050136	86.6422	87.3752	86.9730	1.5741e-01	1.9002e+00
32	TAF070136	87.1354	87.9715	87.5950	2.0452e-01	1.9002e+00
33	TAF080136	86.6423	87.2701	86.9311	1.6299e-01	1.9002e+00
34	TAF090136	86.6031	87.9654	87.3241	2.9465e-01	1.9002e+00
35	TAF100136	86.3702	87.0007	86.7023	1.7155e-01	1.9002e+00
36	TAF105136	86.5492	87.3838	86.9663	2.2594e-01	1.9002e+00
37	TAF110136	86.3355	87.1731	86.7709	1.9073e-01	1.9002e+00
38	TAF115136	86.8007	87.8484	87.2659	2.0647e-01	1.9002e+00
39	TAF120136	86.6890	87.2127	86.9568	1.2909e-01	1.9002e+00
40	TAF125136	86.7559	87.4875	87.1567	1.6414e-01	1.9002e+00
41	TAF130136	86.6564	87.2857	86.9332	1.4639e-01	1.9002e+00
42	TAF120048	86.8717	87.7138	87.3097	2.0796e-01	1.9002e+00
43	TAF130048	86.4742	86.9991	86.6966	1.3012e-01	1.9002e+00
44	TAF120224	86.6947	87.4284	87.0261	1.7514e-01	1.9002e+00
45	TAF130224	86.1098	86.7408	86.4675	1.3270e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1308	1.8043e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2153	1.1599e-01	1.9010e+00
48	TAI130048	86.5652	87.9289	87.1571	2.9194e-01	1.9002e+00
49	TAI130136	86.1951	86.9285	86.5263	1.9428e-01	1.9002e+00
50	TAI130224	86.6375	87.5834	87.1422	2.3739e-01	1.9002e+00
51	TAI130312	86.2505	86.8807	86.5739	1.5714e-01	1.9002e+00
52	TRR130000	85.9210	86.8639	86.3778	2.0596e-01	1.9002e+00
53	TSI000001	79.7244	80.5670	80.1117	1.7487e-01	1.9001e+00
54	TSI000002	70.5115	71.5733	71.1145	2.6567e-01	1.9000e+00
55	TSO000001	67.4470	68.4093	67.8534	1.8335e-01	1.9000e+00
56	TSO000002	79.3673	80.1065	79.7562	1.8028e-01	1.9001e+00
57	TAF020136	86.2421	86.7699	86.5126	1.4468e-01	1.9002e+00
58	TAF120312	74.7449	75.5926	75.1562	2.5647e-01	1.9000e+00
59	TAF130312	86.0918	86.6166	86.3144	1.3517e-01	1.9002e+00
60	EMPTY	0.4639	0.4688	0.4676	2.1065e-03	0.0000e+00
61	EMPTY	0.4785	0.4834	0.4831	1.1714e-03	0.0000e+00
62	EMPTY	0.4932	0.4980	0.4964	2.3365e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5128	6.9053e-04	0.0000e+00
64	EMPTY	0.3223	0.3271	0.3241	2.3941e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3451	2.3008e-03	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3612	6.9053e-04	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3792	2.3365e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3919	2.1635e-03	0.0000e+00
69	EMPTY	0.4102	0.4102	0.4102	0.0000e+00	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4267	2.3941e-03	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4495	1.1714e-03	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4641	9.6655e-04	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4835	6.9053e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4989	1.8950e-03	0.0000e+00
75	EMPTY	0.5127	0.5225	0.5176	9.8648e-04	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5321	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5752	1.9730e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5972	2.2603e-03	0.0000e+00
80	PAN020136	2.3916	3.3834	2.8860	2.3741e-01	8.7003e-01
81	PAN050136	6.1379	6.7482	6.4858	1.5731e-01	1.6801e+00
82	PAN070136	5.7341	6.2681	6.0240	1.1637e-01	8.7013e-01
83	PAN080136	1.2414	1.5466	1.3925	7.4705e-02	8.7001e-01
84	PAN090136	1.4029	1.7843	1.5966	8.3305e-02	8.7001e-01
85	PAN100136	2.1995	2.5047	2.3048	6.8742e-02	8.7002e-01
86	PAN105136	2.7503	3.0555	2.9365	8.0329e-02	8.7003e-01
87	PAN110136	1.7468	2.0520	1.9482	8.2661e-02	8.7001e-01
88	PAN115136	1.6368	1.9420	1.7756	8.6770e-02	8.7001e-01
89	PAN120136	0.0067	0.2356	0.1044	7.2362e-02	8.7000e-01
90	PAN125136	0.4571	0.6860	0.5501	6.5919e-02	8.7000e-01
91	PAN130136	0.1974	0.4263	0.3027	7.2116e-02	8.7000e-01
92	PAN120048	1.0346	1.3398	1.1734	7.8125e-02	8.7000e-01
93	PAN130048	1.0727	1.3779	1.2192	7.9854e-02	8.7001e-01
94	PAN120224	1.9617	2.2669	2.1159	7.4705e-02	8.7002e-01
95	PAN130224	0.9451	1.3265	1.1602	8.2560e-02	8.7000e-01
96	PAN120312	2.0586	2.3638	2.2173	7.9854e-02	8.7002e-01
97	PAN130312	0.7426	1.0478	0.9227	8.2661e-02	8.7000e-01
98	PAB000136	31.7750	31.9581	31.8674	4.5767e-02	5.8545e-01
99	PAB100136	30.8630	31.0003	30.9326	3.8400e-02	5.8513e-01
100	PAB125136	30.6314	30.7687	30.7092	3.8411e-02	5.8506e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	31.4748	31.7189	31.5968	4.2716e-02	7.5415e-01
102	PRV000001	19.6832	19.8053	19.7199	5.6508e-02	7.5162e-01
103	PSR000001	30.0851	30.3292	30.1852	5.3409e-02	7.5379e-01
104	PFM000001	22.7826	23.5150	23.1855	1.3209e-01	5.0335e-01
105	PAN000136	28.1004	30.3892	29.3638	6.3105e-01	4.9205e+00
106	PFM000002	22.0819	22.9209	22.5745	1.8877e-01	2.0781e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-9.0234	-9.7879	2.7685e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0035	2.2146e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8605	9.2456e-02	8.1002e-01
113	VPW000002	-0.9812	-0.5906	-0.7625	7.5283e-02	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7900	9.9512e-02	8.1001e-01
115	VPW000004	-0.8166	-0.4259	-0.5666	1.1189e-01	8.1001e-01
116	VPW000005	-1.4872	-1.0966	-1.3661	1.1084e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.3641	1.0410e-01	8.1004e-01
118	IPW000001	-11.3611	-5.5040	-9.4087	1.1156e+00	8.1003e+00
119	IPW000002	-14.0585	-8.2047	-10.4292	1.1833e+00	8.1004e+00
120	IPW000003	-15.6468	-11.7468	-12.9168	1.1819e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.8770	2.7356e-01	2.0001e+00
122	IPW000005	-4.2058	-2.7411	-3.6785	3.2476e-01	2.0002e+00
123	IPW000006	-2.9297	-1.4648	-2.3828	3.6433e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0211	3.3366e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0143	3.6699e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0177	2.7709e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.6963e-03	0.0000e+00
128	IHT000001	-0.4447	-0.0541	-0.1791	1.0259e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1597	1.0259e-01	4.1000e+00
130	IHT000003	-0.3294	-0.1341	-0.2747	8.8585e-02	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1727	6.8459e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1198	1.0206e-01	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0317	1.0358e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0956	6.6498e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1903	9.4702e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1805	5.9189e-02	4.1000e+00
137	IHT000010	-0.3553	0.0353	-0.1405	8.1347e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.0956	6.6498e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1644	9.3043e-02	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0405	9.3461e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1483	6.1257e-02	4.1000e+00
142	IHT000015	-0.2400	0.1506	-0.1384	1.0617e-01	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1278	6.7888e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	-0.0117	2.2464e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3769	1.0617e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0244	7.7324e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0956	7.8523e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3530	8.2864e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1202	8.5454e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2150	9.4702e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0891	9.8569e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0508	8.6541e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1250	9.4702e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0267	1.0799e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1202	1.0206e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.0958	9.8648e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0833	1.3093e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0391	7.8918e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3755	8.6541e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0294	1.0559e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.0970	1.2608e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0088	9.1354e-02	4.1000e+00

Velocity 1 = 12.2044 (ft/sec) (+/- 3.6359 %)
Velocity 2 = 12.0360 (ft/sec) (+/- 3.4941 %)
Pressure drop = 1.0521 (psi)
Tsat in = 253.9025 (deg F) Tsat out = 251.7527 (deg F)
Phi inner = 0.0055 (kBtu/hr-ft2) (+/- 118.7293 %)
Phi outer = 0.0077 (kBtu/hr-ft2) (+/- 121.7436 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5655	1.6789e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.2198	1.2499e-01	1.9000e+00
2	TFM000001	86.0328	86.7669	86.4137	1.8114e-01	1.9002e+00
3	TIN000001	86.3108	87.0463	86.7137	1.6099e-01	1.9002e+00
4	TRV000001	86.0036	86.9448	86.5386	2.0777e-01	1.9002e+00
5	TSR000001	87.2442	87.9745	87.7103	1.6263e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	85.6143	86.3477	85.9784	1.8631e-01	1.9002e+00
8	TAO070136	87.0019	87.7381	87.3863	1.7253e-01	1.9002e+00
9	TAO080136	86.6935	87.3217	87.0055	1.3759e-01	1.9002e+00
10	TAO090136	86.2508	87.0893	86.7512	1.9166e-01	1.9002e+00
11	TAO100136	86.6653	87.2952	86.9868	1.6779e-01	1.9002e+00
12	TAO105136	86.9165	87.7565	87.2510	2.0400e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0755	1.1381e-01	1.9011e+00
14	TAO115136	86.1227	86.8598	86.5458	1.9628e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5468	4.5986e-02	1.9009e+00
16	TAO125136	86.4593	87.0883	86.8356	1.4659e-01	1.9002e+00
17	TAO130136	86.4217	87.0487	86.7840	1.5071e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.3094	1.1456e-01	1.9011e+00
19	TAO130048	86.5242	87.0488	86.7900	1.4211e-01	1.9002e+00
20	TAO120224	86.2225	86.9570	86.5484	1.7821e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.9214	1.2833e-01	1.9010e+00
22	TAO120312	86.2912	87.0261	86.7414	1.6459e-01	1.9002e+00
23	TAO130312	86.0882	86.6126	86.4068	1.2671e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3433	1.7537e-01	1.9010e+00
25	TRT070000	86.3939	87.0269	86.6585	1.5067e-01	1.9002e+00
26	TRT100000	86.9017	87.6344	87.2224	1.8801e-01	1.9002e+00
27	TRT120000	86.7058	87.3346	86.9563	1.5412e-01	1.9002e+00
28	TRT125000	86.5839	87.4207	87.0111	2.0549e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6150	9.3232e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6759	1.9434e-01	1.9011e+00
31	TAF050136	86.5375	87.2705	86.9819	1.7300e-01	1.9002e+00
32	TAF070136	87.1354	87.9715	87.5620	1.9399e-01	1.9002e+00
33	TAF080136	86.5389	87.3729	86.9371	1.4571e-01	1.9002e+00
34	TAF090136	86.8126	87.7561	87.2854	2.2949e-01	1.9002e+00
35	TAF100136	86.2655	87.1054	86.7282	1.7001e-01	1.9002e+00
36	TAF105136	86.5492	87.3838	87.0068	2.2887e-01	1.9002e+00
37	TAF110136	86.5439	87.0684	86.7671	1.4604e-01	1.9002e+00
38	TAF115136	86.8007	87.8484	87.2968	2.1995e-01	1.9002e+00
39	TAF120136	86.5838	87.2127	86.9517	1.4986e-01	1.9002e+00
40	TAF125136	86.6507	87.4875	87.1331	1.6238e-01	1.9002e+00
41	TAF130136	86.6559	87.2857	86.9432	1.5703e-01	1.9002e+00
42	TAF120048	86.8712	87.6100	87.3658	2.1646e-01	1.9002e+00
43	TAF130048	86.4737	86.9991	86.7097	1.2412e-01	1.9002e+00
44	TAF120224	86.6942	87.5335	87.0157	2.1338e-01	1.9002e+00
45	TAF130224	86.1094	86.7408	86.4833	1.4891e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1710	2.4623e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2589	1.1598e-01	1.9010e+00
48	TAI130048	86.4600	87.8238	87.1798	3.0804e-01	1.9002e+00
49	TAI130136	86.0908	87.0332	86.6056	2.1249e-01	1.9002e+00
50	TAI130224	86.4272	87.6884	87.1503	2.6329e-01	1.9002e+00
51	TAI130312	86.2504	87.0906	86.5719	1.7862e-01	1.9002e+00
52	TRR130000	86.0258	86.9686	86.3957	2.0508e-01	1.9002e+00
53	TSI000001	79.7234	80.4612	80.1540	1.6223e-01	1.9001e+00
54	TSI000002	70.6176	71.6788	71.1701	2.4314e-01	1.9000e+00
55	TSO000001	67.5529	68.3025	67.8943	1.7004e-01	1.9000e+00
56	TSO000002	79.3673	80.1070	79.7986	2.0082e-01	1.9001e+00
57	TAF020136	86.0316	86.9806	86.5566	2.1019e-01	1.9002e+00
58	TAF120312	74.5334	75.6981	75.1386	2.7431e-01	1.9000e+00
59	TAF130312	85.9866	86.6166	86.2868	1.5887e-01	1.9002e+00
60	EMPTY	0.4639	0.4688	0.4662	2.4621e-03	0.0000e+00
61	EMPTY	0.4785	0.4834	0.4816	2.3783e-03	0.0000e+00
62	EMPTY	0.4932	0.4980	0.4946	2.2287e-03	0.0000e+00
63	EMPTY	0.5078	0.5127	0.5110	2.3483e-03	0.0000e+00
64	EMPTY	0.3223	0.3271	0.3238	2.2737e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3456	2.0584e-03	0.0000e+00
66	EMPTY	0.3613	0.3613	0.3613	0.0000e+00	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3795	2.2287e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3924	2.3783e-03	0.0000e+00
69	EMPTY	0.4102	0.4102	0.4102	0.0000e+00	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4263	2.2737e-03	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4495	1.1827e-03	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4641	9.7615e-04	0.0000e+00
73	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
74	EMPTY	0.4932	0.5029	0.4983	1.5467e-03	0.0000e+00
75	EMPTY	0.5127	0.5225	0.5176	9.9670e-04	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5323	6.9754e-04	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5516	9.7615e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5750	2.1215e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5975	2.3783e-03	0.0000e+00
80	PAN020136	2.5442	3.6123	2.9272	2.1267e-01	8.7003e-01
81	PAN050136	5.9853	6.9008	6.4244	1.9107e-01	1.6801e+00
82	PAN070136	5.8104	6.1918	6.0284	1.0330e-01	8.7013e-01
83	PAN080136	1.2414	1.6229	1.3971	8.2347e-02	8.7001e-01
84	PAN090136	1.4029	1.7080	1.5523	7.2978e-02	8.7001e-01
85	PAN100136	2.1232	2.4284	2.2867	7.3046e-02	8.7002e-01
86	PAN105136	2.8266	3.0555	2.9200	7.3485e-02	8.7003e-01
87	PAN110136	1.7468	2.0520	1.9243	7.3687e-02	8.7001e-01
88	PAN115136	1.6368	1.9420	1.7676	8.0922e-02	8.7001e-01
89	PAN120136	-0.0696	0.2356	0.0768	7.2774e-02	8.7000e-01
90	PAN125136	0.4571	0.6860	0.5552	7.4688e-02	8.7000e-01
91	PAN130136	0.1974	0.4263	0.2924	6.7039e-02	8.7000e-01
92	PAN120048	0.9583	1.2635	1.1311	7.0984e-02	8.7000e-01
93	PAN130048	1.0727	1.4541	1.2035	8.3866e-02	8.7001e-01
94	PAN120224	1.8854	2.3432	2.1003	8.6251e-02	8.7002e-01
95	PAN130224	1.0213	1.2502	1.1584	7.3012e-02	8.7000e-01
96	PAN120312	1.9823	2.3638	2.1785	8.2407e-02	8.7002e-01
97	PAN130312	0.7426	1.0478	0.9263	8.6595e-02	8.7000e-01
98	PAB000136	31.7292	31.9123	31.8338	4.3828e-02	5.8543e-01
99	PAB100136	30.8172	31.0003	30.8948	4.4030e-02	5.8512e-01
100	PAB125136	30.6314	30.7229	30.6809	3.8341e-02	5.8505e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	31.4748	31.7189	31.5570	6.2977e-02	7.5414e-01
102	PRV000001	19.6832	19.8053	19.6957	3.7334e-02	7.5161e-01
103	PSR000001	29.9630	30.2072	30.1449	6.6500e-02	7.5378e-01
104	PFM000001	22.6911	23.3319	23.0965	1.6819e-01	5.0332e-01
105	PAN000136	27.6426	30.3892	29.1280	6.0938e-01	4.9205e+00
106	PFM000002	21.8805	23.1222	22.4586	2.6725e-01	2.0773e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9754e-04	0.0000e+00
108	EMPTY	-10.0000	-9.0234	-9.8339	2.6095e-01	0.0000e+00
109	EMPTY	-0.0049	0.0098	0.0035	2.6370e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8366	9.9629e-02	8.1002e-01
113	VPW000002	-0.7859	-0.5906	-0.7541	7.2937e-02	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7734	1.0941e-01	8.1001e-01
115	VPW000004	-0.8166	-0.2306	-0.5495	1.1059e-01	8.1001e-01
116	VPW000005	-1.6825	-1.0966	-1.3756	1.2607e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.3599	1.1560e-01	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.5681	1.3711e+00	8.1004e+00
119	IPW000002	-12.1072	-8.2047	-10.2356	1.2570e+00	8.1004e+00
120	IPW000003	-15.6468	-9.7968	-12.5427	1.1201e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9549	2.7277e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.6478	3.4523e-01	2.0002e+00
123	IPW000006	-2.9297	-1.4648	-2.3019	3.4527e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.6690e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.9526e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0179	3.0538e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0148	3.5880e-03	0.0000e+00
128	IHT000001	-0.2494	-0.0541	-0.1816	9.3931e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1252	9.4962e-02	4.1000e+00
130	IHT000003	-0.3294	-0.1341	-0.2536	9.6150e-02	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1761	7.5986e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1166	8.3122e-02	4.1000e+00
133	IHT000006	-0.1528	0.0425	-0.0292	9.5132e-02	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0920	6.1868e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1638	8.2338e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1761	6.4688e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1122	8.4860e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1159	9.4962e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1813	1.0836e-01	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0299	1.0548e-01	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1321	7.9736e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1523	9.8153e-02	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1439	7.5987e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	-0.0120	2.3044e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.4029	1.0204e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0400	7.9736e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1234	9.9629e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3248	9.7490e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1838	9.2540e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1314	7.5986e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2255	9.0949e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0910	9.8648e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0518	8.7123e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.0996	9.8648e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0227	1.0517e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1234	9.2189e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1153	8.9148e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0947	1.0424e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0438	8.2338e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3805	8.9148e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0436	1.1059e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.0909	1.1276e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	0.0038	9.9792e-02	4.1000e+00

Velocity 1 = 0.023300 (ft/sec)
 Velocity 2 = 0.030800 (ft/sec)
 Pressure Drop = 0.008500 (psi)
 Tsat in = 0.061600 (deg F) Tsat out = 0.053696 (deg F)
 Phi inner = 0.000300 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0034	0.0046
1	TRF000002	0.0564	0.0750
2	TFM000001	0.0243	0.0281
3	TIN000001	0.0172	0.0198
4	TRV000001	0.0206	0.0238
5	TSR000001	0.0448	0.0511
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0178	0.0207
8	TAO070136	0.0223	0.0255
9	TAO080136	0.0439	0.0505
10	TAO090136	0.0100	0.0115
11	TAO100136	0.0148	0.0170
12	TAO105136	0.0186	0.0213
13	EMPTY	0.0210	0.0511
14	TAO115136	0.0104	0.0120
15	EMPTY	0.0091	0.0242
16	TAO125136	0.0159	0.0183
17	TAO130136	0.0489	0.0564
18	EMPTY	0.0341	0.0826
19	TAO130048	0.0137	0.0158
20	TAO120224	0.0442	0.0511
21	EMPTY	0.0368	0.0946
22	TAO120312	0.0383	0.0442
23	TAO130312	0.0169	0.0196
24	EMPTY	0.0315	0.0801
25	TRT070000	0.0199	0.0230
26	TRT100000	0.0354	0.0406
27	TRT120000	0.0054	0.0062
28	TRT125000	0.0586	0.0674
29	EMPTY	0.0002	0.0005
30	EMPTY	0.0216	0.0544
31	TAF050136	0.0089	0.0102
32	TAF070136	0.0330	0.0377
33	TAF080136	0.0060	0.0069
34	TAF090136	0.0387	0.0443
35	TAF100136	0.0259	0.0299
36	TAF105136	0.0405	0.0466
37	TAF110136	0.0038	0.0044
38	TAF115136	0.0309	0.0354
39	TAF120136	0.0051	0.0059
40	TAF125136	0.0236	0.0271
41	TAF130136	0.0100	0.0115
42	TAF120048	0.0561	0.0643
43	TAF130048	0.0131	0.0151
44	TAF120224	0.0104	0.0119
45	TAF130224	0.0158	0.0183

#	Name	Abs Diff	%Diff
46	EMPTY	0.0402	0.1054
47	EMPTY	0.0436	0.1112
48	TAI130048	0.0227	0.0261
49	TAI130136	0.0793	0.0916
50	TAI130224	0.0081	0.0093
51	TAI130312	0.0020	0.0023
52	TRR130000	0.0179	0.0207
53	TSI000001	0.0423	0.0528
54	TSI000002	0.0556	0.0782
55	TSO000001	0.0409	0.0603
56	TSO000002	0.0424	0.0532
57	TAF020136	0.0440	0.0509
58	TAF120312	0.0176	0.0234
59	TAF130312	0.0276	0.0320
60	EMPTY	0.0014	0.2994
61	EMPTY	0.0015	0.3105
62	EMPTY	0.0018	0.3626
63	EMPTY	0.0018	0.3510
64	EMPTY	0.0003	0.0926
65	EMPTY	0.0005	0.1449
66	EMPTY	0.0001	0.0277
67	EMPTY	0.0003	0.0791
68	EMPTY	0.0005	0.1276
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0004	0.0937
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0001	0.0207
74	EMPTY	0.0006	0.1203
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0002	0.0376
77	EMPTY	0.0002	0.0363
78	EMPTY	0.0002	0.0348
79	EMPTY	0.0003	0.0502
80	PAN020136	0.0412	1.4276
81	PAN050136	0.0614	0.9467
82	PAN070136	0.0044	0.0730
83	PAN080136	0.0046	0.3303
84	PAN090136	0.0443	2.7747
85	PAN100136	0.0181	0.7853
86	PAN105136	0.0165	0.5619
87	PAN110136	0.0239	1.2268
88	PAN115136	0.0080	0.4505
89	PAN120136	0.0276	26.4368
90	PAN125136	0.0051	0.9271
91	PAN130136	0.0103	3.4027
92	PAN120048	0.0423	3.6049
93	PAN130048	0.0157	1.2877
94	PAN120224	0.0156	0.7373
95	PAN130224	0.0018	0.1551
96	PAN120312	0.0388	1.7499
97	PAN130312	0.0036	0.3902
98	PAB000136	0.0336	0.1054
99	PAB100136	0.0378	0.1222
100	PAB125136	0.0283	0.0922

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0398	0.1260
102	PRV000001	0.0242	0.1227
103	PSR000001	0.0403	0.1335
104	PFM000001	0.0890	0.3839
105	PAN000136	0.2358	0.8030
106	PFM000002	0.1159	0.5134
107	EMPTY	0.0000	0.0000
108	EMPTY	0.0460	0.4700
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0239	2.7775
113	VPW000002	0.0084	1.1016
114	VPW000003	0.0166	2.1013
115	VPW000004	0.0171	3.0180
116	VPW000005	0.0095	0.6954
117	VPW000006	0.0042	0.3079
118	IPW000001	0.1594	1.6942
119	IPW000002	0.1936	1.8563
120	IPW000003	0.3741	2.8962
121	IPW000004	0.0779	4.1502
122	IPW000005	0.0307	0.8346
123	IPW000006	0.0809	3.3952
124	EMPTY	0.0001	0.4739
125	EMPTY	0.0009	6.2937
126	EMPTY	0.0002	1.1299
127	EMPTY	0.0012	7.5000
128	IHT000001	0.0025	1.3959
129	IHT000002	0.0345	21.6030
130	IHT000003	0.0211	7.6811
131	IHT000004	0.0034	1.9687
132	IHT000005	0.0032	2.6711
133	IHT000006	0.0025	7.8864
134	IHT000007	0.0036	3.7657
135	IHT000008	0.0265	13.9254
136	IHT000009	0.0044	2.4377
137	IHT000010	0.0283	20.1423
138	IHT000011	0.0203	21.2343
139	IHT000012	0.0169	10.2798
140	IHT000013	0.0106	26.1728
141	IHT000014	0.0162	10.9238
142	IHT000015	0.0139	10.0434
143	IHT000016	0.0161	12.5978
144	IHT000017	0.0003	2.5641
145	IHT000018	0.0260	6.8984
146	IHT000019	0.0156	63.9344
147	IHT000020	0.0278	29.0795
148	IHT000021	0.0282	0.8410
149	IHT000022	0.0091	5.2089
150	IHT000023	0.0112	9.3178
151	IHT000024	0.0105	4.8837
152	IHT000025	0.0019	2.1324
153	IHT000026	0.0010	1.9685
154	IHT000027	0.0254	20.3200
155	IHT000028	0.0040	14.9813

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0032	2.6622
157	IHT000030	0.0195	20.3549
158	IHT000031	0.0114	13.6855
159	IHT000032	0.0047	12.0205
160	IHT000033	0.0050	0.0134
161	IHT000034	0.0142	48.2993
162	IHT000035	0.0061	6.2887
163	IHT000036	0.0126	143.1818

Velocity 1 = 9.9084 (ft/sec) (+/- 3.8424 %)

Velocity 2 = 9.8064 (ft/sec) (+/- 3.5235 %)

Pressure drop = -0.9933 (psi)

Tsats in = 249.1171 (deg F) Tsats out = 250.7308 (deg F)

Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 6769.1182 %)

Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 142636.8125 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.3963	75.0338	74.5918	1.7618e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.2015	1.3207e-01	1.9000e+00
2	TFM0000001	86.3471	87.0815	86.7077	1.9654e-01	1.9002e+00
3	TIN0000001	86.6258	87.3616	87.0041	1.5303e-01	1.9002e+00
4	TRV0000001	86.5249	87.2579	86.8979	1.6945e-01	1.9002e+00
5	TSR0000001	87.3472	87.8709	87.6489	1.4602e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	85.9287	86.5570	86.3014	1.8345e-01	1.9002e+00
8	TAO070136	87.2125	88.1592	87.6545	2.0491e-01	1.9002e+00
9	TAO080136	86.9019	87.5301	87.2202	1.4952e-01	1.9002e+00
10	TAO090136	86.6695	87.5078	87.0217	2.1039e-01	1.9002e+00
11	TAO100136	86.9801	87.5051	87.2528	1.5717e-01	1.9002e+00
12	TAO105136	86.9171	87.9662	87.5340	2.1054e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1195	1.2250e-01	1.9011e+00
14	TAO115136	86.3333	87.1751	86.7838	2.1684e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5559	6.3038e-02	1.9009e+00
16	TAO125136	86.8776	87.4018	87.1001	1.3514e-01	1.9002e+00
17	TAO130136	86.6288	87.3571	87.0290	1.6395e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2799	1.0607e-01	1.9011e+00
19	TAO130048	86.7337	87.3625	87.0314	1.6039e-01	1.9002e+00
20	TAO120224	86.4327	87.1666	86.7809	1.8412e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8708	1.3127e-01	1.9010e+00
22	TAO120312	86.7115	87.3410	87.0094	1.6336e-01	1.9002e+00
23	TAO130312	86.4018	87.0308	86.6745	1.6412e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3301	1.9681e-01	1.9010e+00
25	TRT070000	86.5005	87.2381	86.9046	1.6794e-01	1.9002e+00
26	TRT100000	86.9017	87.8434	87.4628	1.9243e-01	1.9002e+00
27	TRT120000	86.8106	87.4403	87.1880	1.5998e-01	1.9002e+00
28	TRT125000	87.0010	87.6289	87.2900	1.9416e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6057	8.0326e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7066	1.9761e-01	1.9011e+00
31	TAF050136	86.8512	87.5840	87.2280	1.6926e-01	1.9002e+00
32	TAF070136	87.4484	88.2833	87.8993	2.0613e-01	1.9002e+00
33	TAF080136	86.8503	87.4781	87.1976	1.6011e-01	1.9002e+00
34	TAF090136	86.9174	88.0701	87.5922	2.6447e-01	1.9002e+00
35	TAF100136	86.6855	87.5253	87.0298	1.8002e-01	1.9002e+00
36	TAF105136	86.6526	87.7997	87.2787	2.5196e-01	1.9002e+00
37	TAF110136	86.6492	87.3819	87.0175	1.8478e-01	1.9002e+00
38	TAF115136	87.0101	87.9529	87.5925	1.8953e-01	1.9002e+00
39	TAF120136	87.0015	87.4217	87.2072	1.3225e-01	1.9002e+00
40	TAF125136	87.0678	87.7993	87.4527	1.5881e-01	1.9002e+00
41	TAF130136	86.8659	87.4955	87.2852	1.4221e-01	1.9002e+00
42	TAF120048	87.0829	88.1359	87.6347	2.5762e-01	1.9002e+00
43	TAF130048	86.6840	87.3140	87.0448	1.5459e-01	1.9002e+00
44	TAF120224	86.9043	87.7430	87.3404	1.9684e-01	1.9002e+00
45	TAF130224	86.5319	86.9522	86.7544	1.3189e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.0572	2.3598e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2291	1.1134e-01	1.9010e+00
48	TAI130048	86.7751	88.1385	87.4129	3.1839e-01	1.9002e+00
49	TAI130136	86.4043	87.2421	86.8065	2.0339e-01	1.9002e+00
50	TAI130224	86.7431	87.7935	87.3986	2.4715e-01	1.9002e+00
51	TAI130312	86.4607	87.1958	86.8427	1.7721e-01	1.9002e+00
52	TRR130000	86.1303	87.0726	86.6332	1.9513e-01	1.9002e+00
53	TSI000001	79.8292	80.5670	80.1244	1.7563e-01	1.9001e+00
54	TSI000002	70.5115	71.7853	71.2079	2.9337e-01	1.9000e+00
55	TSO000001	67.6608	68.4093	68.0203	1.7511e-01	1.9000e+00
56	TSO000002	79.3678	80.2122	79.8238	2.0732e-01	1.9001e+00
57	TAF020136	86.4547	87.2970	86.8419	1.6549e-01	1.9002e+00
58	TAF120312	74.5334	75.5926	75.1180	2.6138e-01	1.9000e+00
59	TAF130312	86.1967	86.8266	86.5910	1.6359e-01	1.9002e+00
60	EMPTY	0.4688	0.4785	0.4728	2.1364e-03	0.0000e+00
61	EMPTY	0.4834	0.4932	0.4879	1.6624e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.5016	2.2146e-03	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5181	1.4797e-03	0.0000e+00
64	EMPTY	0.3223	0.3320	0.3268	1.6624e-03	0.0000e+00
65	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3622	1.8950e-03	0.0000e+00
67	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
68	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
69	EMPTY	0.4102	0.4150	0.4132	2.3941e-03	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4295	9.6655e-04	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4535	1.6028e-03	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4662	2.4642e-03	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4846	2.1065e-03	0.0000e+00
74	EMPTY	0.4980	0.5029	0.5026	1.1714e-03	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5181	1.4797e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5323	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
78	EMPTY	0.5762	0.5762	0.5762	0.0000e+00	0.0000e+00
79	EMPTY	0.5957	0.6006	0.6005	6.9053e-04	0.0000e+00
80	PAN020136	-4.3223	-3.7119	-4.0735	1.3421e-01	8.7006e-01
81	PAN050136	-7.1373	-6.5269	-6.8718	1.3370e-01	1.6801e+00
82	PAN070136	-3.8027	-3.4212	-3.5845	8.5834e-02	8.7005e-01
83	PAN080136	-3.0311	-2.8022	-2.9090	7.2297e-02	8.7003e-01
84	PAN090136	-2.7170	-2.4118	-2.5782	9.0784e-02	8.7002e-01
85	PAN100136	-2.3018	-1.9967	-2.1233	8.3874e-02	8.7002e-01
86	PAN105136	-0.0726	0.2326	0.1121	6.5558e-02	8.7000e-01
87	PAN110136	-0.8472	-0.5420	-0.6854	8.1036e-02	8.7000e-01
88	PAN115136	-0.5757	-0.2706	-0.4643	7.4258e-02	8.7000e-01
89	PAN120136	-2.0532	-1.7480	-1.9372	7.4306e-02	8.7001e-01
90	PAN125136	-1.5266	-1.2977	-1.4091	5.3860e-02	8.7001e-01
91	PAN130136	-1.7099	-1.4811	-1.5894	6.7346e-02	8.7001e-01
92	PAN120048	-3.2379	-3.0090	-3.1112	6.2819e-02	8.7003e-01
93	PAN130048	-2.9709	-2.7420	-2.8382	7.0314e-02	8.7003e-01
94	PAN120224	-2.4633	-2.1581	-2.3016	7.8049e-02	8.7002e-01
95	PAN130224	-3.0985	-2.7934	-2.9566	7.2313e-02	8.7003e-01
96	PAN120312	-2.2901	-2.0612	-2.1803	7.4178e-02	8.7002e-01
97	PAN130312	-3.1484	-2.9195	-3.0507	6.1732e-02	8.7003e-01
98	PAB000136	29.2573	29.3946	29.3186	4.0954e-02	5.8461e-01
99	PAB100136	29.8559	30.0390	29.9374	3.9552e-02	5.8481e-01
100	PAB125136	30.0821	30.2652	30.1462	4.5307e-02	5.8488e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	28.9113	29.0334	28.9552	5.9189e-02	7.5349e-01
102	PRV000001	20.1715	20.2936	20.2081	5.6508e-02	7.5170e-01
103	PSR000001	29.8409	29.9630	29.8800	5.7521e-02	7.5371e-01
104	PFM000001	14.9091	15.3669	15.1691	1.1153e-01	5.0144e-01
105	PAN000136	-28.2045	-26.3735	-27.4996	5.3296e-01	4.9205e+00
106	PFM000002	14.2457	15.5545	14.8555	2.6979e-01	2.0342e-01
107	EMPTY	-0.0049	0.0049	0.0041	2.0598e-03	0.0000e+00
108	EMPTY	-10.0000	-8.8184	-9.8616	2.6610e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0016	2.3008e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.1027	8.8321e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	0.0031	8.7880e-02	8.1000e-01
114	VPW000003	-0.0400	0.1553	-0.0048	7.5798e-02	8.1000e-01
115	VPW000004	-0.2306	0.1600	0.0467	1.1223e-01	8.1000e-01
116	VPW000005	-0.1200	0.2706	-0.0067	1.1223e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0516	1.1545e-01	8.1000e-01
118	IPW000001	-11.3611	15.9717	-1.3260	1.1191e+01	8.1000e+00
119	IPW000002	-37.4737	-8.2047	-19.0928	1.2354e+01	8.1014e+00
120	IPW000003	-15.6468	-9.7968	-12.6438	1.1288e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9746	2.0903e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.6785	3.2476e-01	2.0002e+00
123	IPW000006	-2.9297	-1.4648	-2.2754	3.6393e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0203	4.2269e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	3.0067e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0183	3.2434e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0157	3.3146e-03	0.0000e+00
128	IHT000001	-0.2494	0.1412	-0.1634	1.0559e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1245	1.1632e-01	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2473	1.0507e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1531	8.4262e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1277	9.0756e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	0.0073	1.0206e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0917	7.2866e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1591	8.8233e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1766	6.4113e-02	4.1000e+00
137	IHT000010	-0.1600	0.2306	-0.0975	1.0763e-01	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.0956	8.6810e-02	4.1000e+00
139	IHT000012	-0.3128	0.2731	-0.1448	1.3093e-01	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0327	1.0625e-01	4.1000e+00
141	IHT000014	-0.3553	0.2306	-0.1053	1.1189e-01	4.1000e+00
142	IHT000015	-0.2400	0.1506	-0.1502	1.1306e-01	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1395	7.1136e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	0.0000	2.3008e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3964	1.1084e-01	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0205	5.9189e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1230	8.1347e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3412	7.5283e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1942	9.5765e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1241	8.2393e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2111	9.5765e-02	4.1000e+00
152	IHT000025	-0.2000	0.3859	0.0695	1.1084e-01	4.1000e+00
153	IHT000026	-0.3906	0.0000	-0.0430	9.0756e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1289	9.3461e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0502	1.0625e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1280	1.0447e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.0958	9.8648e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0989	9.9902e-02	4.1000e+00
159	IHT000032	-0.1953	0.1953	0.0586	9.8648e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3872	9.2034e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0411	1.2409e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.0892	1.1897e-01	4.1000e+00
163	IHT000036	-0.2353	0.3506	-0.0205	9.0412e-02	4.1000e+00

Velocity 1 = 9.9047 (ft/sec) (+/- 3.8430 %)
 Velocity 2 = 9.7987 (ft/sec) (+/- 3.5237 %)
 Pressure drop = -0.9958 (psi)
 Tsat in = 249.1343 (deg F) Tsat out = 250.7675 (deg F)
 Phi inner = -0.0001 (kBtu/hr-ft2) (+/- 2644.7800 %)
 Phi outer = -0.0004 (kBtu/hr-ft2) (+/- 2768.4866 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5785	1.7885e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1680	1.2082e-01	1.9000e+00
2	TFM000001	86.2423	87.0810	86.6937	1.8921e-01	1.9002e+00
3	TIN000001	86.6258	87.2564	86.9647	1.5938e-01	1.9002e+00
4	TRV000001	85.8978	87.1537	86.6815	3.1665e-01	1.9002e+00
5	TSR000001	86.9291	87.9755	87.4398	2.9057e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	85.7197	86.6607	86.2748	2.0070e-01	1.9002e+00
8	TAO070136	87.4224	88.0541	87.6723	1.6443e-01	1.9002e+00
9	TAO080136	86.9019	87.5301	87.2329	1.6456e-01	1.9002e+00
10	TAO090136	86.4602	87.4026	87.0224	1.9448e-01	1.9002e+00
11	TAO100136	86.8749	87.6094	87.2284	1.6950e-01	1.9002e+00
12	TAO105136	87.1270	87.9663	87.5530	1.9446e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.1082	1.1518e-01	1.9011e+00
14	TAO115136	86.2281	87.1755	86.7845	2.4864e-01	1.9002e+00
15	EMPTY	37.3074	37.7675	37.5609	8.4584e-02	1.9010e+00
16	TAO125136	86.7732	87.4018	87.0683	1.3140e-01	1.9002e+00
17	TAO130136	86.6288	87.3571	87.0262	1.4369e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.3047	1.1378e-01	1.9011e+00
19	TAO130048	86.7332	87.3625	87.0310	1.6193e-01	1.9002e+00
20	TAO120224	86.4322	87.0622	86.7474	1.6030e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8699	1.2389e-01	1.9010e+00
22	TAO120312	86.6064	87.3410	87.0005	1.6941e-01	1.9002e+00
23	TAO130312	86.2974	86.9261	86.6096	1.3626e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3152	1.9198e-01	1.9010e+00
25	TRT070000	86.6052	87.1316	86.8721	1.3085e-01	1.9002e+00
26	TRT100000	86.9017	87.8438	87.4806	2.3118e-01	1.9002e+00
27	TRT120000	86.9153	87.4398	87.2106	1.4154e-01	1.9002e+00
28	TRT125000	86.8974	87.6289	87.2766	1.6875e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5963	8.0608e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6993	2.1429e-01	1.9011e+00
31	TAF050136	86.9550	87.5840	87.2526	1.7803e-01	1.9002e+00
32	TAF070136	87.3437	88.2833	87.8658	2.0888e-01	1.9002e+00
33	TAF080136	86.8503	87.4781	87.1938	1.5397e-01	1.9002e+00
34	TAF090136	86.9174	88.0701	87.5526	2.8571e-01	1.9002e+00
35	TAF100136	86.6856	87.3154	86.9747	1.4304e-01	1.9002e+00
36	TAF105136	86.8602	87.5918	87.3231	1.9288e-01	1.9002e+00
37	TAF110136	86.7528	87.4855	87.0335	1.5909e-01	1.9002e+00
38	TAF115136	87.2190	87.9529	87.6022	2.0680e-01	1.9002e+00
39	TAF120136	87.0011	87.4213	87.2049	1.1819e-01	1.9002e+00
40	TAF125136	87.0673	87.6957	87.4285	1.5847e-01	1.9002e+00
41	TAF130136	86.8654	87.4950	87.2702	1.3208e-01	1.9002e+00
42	TAF120048	86.9764	87.9262	87.5880	1.9121e-01	1.9002e+00
43	TAF130048	86.6835	87.2088	87.0244	1.5527e-01	1.9002e+00
44	TAF120224	86.9038	87.6378	87.2744	1.8548e-01	1.9002e+00
45	TAF130224	86.5314	86.9518	86.7268	1.1347e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1616	2.4832e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2636	1.2510e-01	1.9010e+00
48	TAI130048	86.8802	88.0339	87.4046	2.9344e-01	1.9002e+00
49	TAI130136	86.4043	87.1374	86.8296	1.7684e-01	1.9002e+00
50	TAI130224	86.7427	87.8990	87.4057	2.9740e-01	1.9002e+00
51	TAI130312	86.2505	87.1954	86.8356	1.8933e-01	1.9002e+00
52	TRR130000	86.1303	86.8639	86.6071	2.0625e-01	1.9002e+00
53	TSI000001	79.7234	80.3565	80.0616	1.5371e-01	1.9001e+00
54	TSI000002	70.5115	71.6793	71.1636	2.4697e-01	1.9000e+00
55	TSO000001	67.5545	68.3030	67.9797	1.9091e-01	1.9000e+00
56	TSO000002	79.4731	80.2122	79.8223	2.0467e-01	1.9001e+00
57	TAF020136	86.2429	87.1923	86.8134	1.8984e-01	1.9002e+00
58	TAF120312	74.6392	75.6981	75.1711	2.2511e-01	1.9000e+00
59	TAF130312	86.1962	86.9309	86.5413	1.9149e-01	1.9002e+00
60	EMPTY	0.4688	0.4736	0.4729	1.7263e-03	0.0000e+00
61	EMPTY	0.4834	0.4932	0.4875	2.3047e-03	0.0000e+00
62	EMPTY	0.4932	0.5029	0.5006	2.6562e-03	0.0000e+00
63	EMPTY	0.5127	0.5225	0.5179	1.8400e-03	0.0000e+00
64	EMPTY	0.3223	0.3271	0.3264	1.8234e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3466	6.9754e-04	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3615	9.7615e-04	0.0000e+00
67	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
68	EMPTY	0.3906	0.4004	0.3946	2.1547e-03	0.0000e+00
69	EMPTY	0.4102	0.4150	0.4116	2.2287e-03	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4292	1.4934e-03	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4519	2.4538e-03	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4651	2.1215e-03	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4839	1.4934e-03	0.0000e+00
74	EMPTY	0.4980	0.5029	0.5019	1.9883e-03	0.0000e+00
75	EMPTY	0.5176	0.5176	0.5176	0.0000e+00	0.0000e+00
76	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5520	9.7615e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5761	6.9754e-04	0.0000e+00
79	EMPTY	0.5957	0.6006	0.6005	6.9754e-04	0.0000e+00
80	PAN020136	-4.3223	-3.8645	-4.1058	1.2875e-01	8.7006e-01
81	PAN050136	-7.2899	-6.6795	-6.9504	1.3671e-01	1.6801e+00
82	PAN070136	-3.7264	-3.4212	-3.5956	9.4730e-02	8.7005e-01
83	PAN080136	-3.0311	-2.8022	-2.9112	7.1366e-02	8.7003e-01
84	PAN090136	-2.7170	-2.4881	-2.5956	8.0800e-02	8.7002e-01
85	PAN100136	-2.3781	-1.9967	-2.1960	7.4389e-02	8.7002e-01
86	PAN105136	-0.0726	0.2326	0.0972	7.3485e-02	8.7000e-01
87	PAN110136	-0.8472	-0.5420	-0.7086	6.9076e-02	8.7000e-01
88	PAN115136	-0.5757	-0.3469	-0.4730	6.5243e-02	8.7000e-01
89	PAN120136	-2.0532	-1.8243	-1.9193	7.2262e-02	8.7001e-01
90	PAN125136	-1.5266	-1.2977	-1.3896	6.0275e-02	8.7001e-01
91	PAN130136	-1.7099	-1.4811	-1.6041	5.5753e-02	8.7001e-01
92	PAN120048	-3.2379	-3.0090	-3.1180	4.9248e-02	8.7003e-01
93	PAN130048	-2.9709	-2.7420	-2.8339	7.1332e-02	8.7003e-01
94	PAN120224	-2.4633	-2.1581	-2.3060	7.6940e-02	8.7002e-01
95	PAN130224	-3.0222	-2.7934	-2.9553	5.9573e-02	8.7003e-01
96	PAN120312	-2.3664	-2.0612	-2.2060	7.1781e-02	8.7002e-01
97	PAN130312	-3.1484	-2.9195	-3.0612	5.8270e-02	8.7003e-01
98	PAB000136	29.2115	29.3946	29.3273	4.1894e-02	5.8462e-01
99	PAB100136	29.9017	30.0390	29.9521	4.0991e-02	5.8481e-01
100	PAB125136	30.0821	30.2194	30.1652	3.9282e-02	5.8488e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	28.9113	29.0334	28.9785	6.1346e-02	7.5349e-01
102	PRV000001	20.1715	20.2936	20.2463	6.0094e-02	7.5171e-01
103	PSR000001	29.8409	29.9630	29.8908	6.0619e-02	7.5371e-01
104	PFM000001	14.9091	15.6415	15.1576	1.4355e-01	5.0143e-01
105	PAN000136	-28.6623	-26.8312	-27.5693	4.3644e-01	4.9205e+00
106	PFM000002	14.1450	15.5378	14.8320	2.6787e-01	2.0341e-01
107	EMPTY	-0.0049	0.0049	0.0044	1.7954e-03	0.0000e+00
108	EMPTY	-10.0000	-9.1455	-9.8904	2.3601e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0010	1.9883e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0873	9.2715e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	0.0033	8.8783e-02	8.1000e-01
114	VPW000003	-0.2353	0.1553	0.0317	1.0315e-01	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0444	9.6990e-02	8.1000e-01
116	VPW000005	-0.1200	0.0753	-0.0204	9.8648e-02	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0366	1.2824e-01	8.1000e-01
118	IPW000001	10.1147	15.9717	13.1030	1.4425e+00	8.1007e+00
119	IPW000002	-35.5225	-27.7174	-31.6597	2.1993e+00	8.1039e+00
120	IPW000003	-13.6968	-9.7968	-12.3835	1.0819e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-2.0147	2.8619e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.6578	3.2497e-01	2.0002e+00
123	IPW000006	-2.9297	-1.4648	-2.3218	3.3845e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0193	3.9817e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0146	3.4527e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0168	3.3149e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	3.1518e-03	0.0000e+00
128	IHT000001	-0.2494	0.1412	-0.1776	1.1059e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1292	9.7490e-02	4.1000e+00
130	IHT000003	-0.3294	0.0613	-0.2457	1.0548e-01	4.1000e+00
131	IHTC000004	-0.2000	-0.0047	-0.1322	9.3931e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1086	9.4620e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	0.0146	9.7656e-02	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0800	7.9736e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1718	8.7123e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1522	8.4860e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1042	8.9148e-02	4.1000e+00
138	IHT000011	-0.2753	-0.0800	-0.1278	8.4860e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1693	9.5812e-02	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0339	9.0949e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1122	1.0941e-01	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1364	9.8483e-02	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1399	9.1305e-02	4.1000e+00
144	IHT000017	-0.5859	0.5859	-0.0120	2.5028e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.4068	1.1546e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0280	6.1868e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0955	6.8582e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3527	7.3601e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1638	9.1482e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1314	7.5986e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2096	9.6150e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0830	9.8153e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0518	8.7123e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1116	9.7656e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	-0.0013	1.0044e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1354	7.1817e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.0994	6.7148e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1066	1.0911e-01	4.1000e+00
159	IHT000032	-0.1953	0.1953	0.0598	9.9303e-02	4.1000e+00
160	IHT000033	37.1294	37.5200	37.3925	1.0204e-01	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0316	1.0548e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1068	1.0640e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	0.0038	9.9792e-02	4.1000e+00

Velocity 1 = 0.003699 (ft/sec)
 Velocity 2 = 0.007700 (ft/sec)
 Pressure Drop = 0.002500 (psi)
 Tsat in = 0.017197 (deg F) Tsat out = 0.036697 (deg F)
 Phi inner = 0.000200 (kBtu/hr-ft2) Phi outer = 0.000400 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0133	0.0178
1	TRF000002	0.0335	0.0445
2	TFM000001	0.0140	0.0161
3	TIN000001	0.0394	0.0453
4	TRV000001	0.2164	0.2490
5	TSR000001	0.2091	0.2386
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0266	0.0308
8	TAO070136	0.0178	0.0203
9	TAO080136	0.0127	0.0146
10	TAO090136	0.0007	0.0008
11	TAO100136	0.0244	0.0280
12	TAO105136	0.0190	0.0217
13	EMPTY	0.0113	0.0275
14	TAO115136	0.0007	0.0008
15	EMPTY	0.0050	0.0133
16	TAO125136	0.0318	0.0365
17	TAO130136	0.0028	0.0032
18	EMPTY	0.0248	0.0601
19	TAO130048	0.0004	0.0005
20	TAO120224	0.0335	0.0386
21	EMPTY	0.0009	0.0023
22	TAO120312	0.0089	0.0102
23	TAO130312	0.0649	0.0749
24	EMPTY	0.0149	0.0379
25	TRT070000	0.0325	0.0374
26	TRT100000	0.0178	0.0204
27	TRT120000	0.0226	0.0259
28	TRT125000	0.0134	0.0153
29	EMPTY	0.0094	0.0237
30	EMPTY	0.0073	0.0184
31	TAF050136	0.0246	0.0282
32	TAF070136	0.0335	0.0381
33	TAF080136	0.0038	0.0044
34	TAF090136	0.0396	0.0452
35	TAF100136	0.0551	0.0633
36	TAF105136	0.0444	0.0509
37	TAF110136	0.0160	0.0184
38	TAF115136	0.0097	0.0111
39	TAF120136	0.0023	0.0026
40	TAF125136	0.0242	0.0277
41	TAF130136	0.0150	0.0172
42	TAF120048	0.0467	0.0533
43	TAF130048	0.0204	0.0234
44	TAF120224	0.0660	0.0756
45	TAF130224	0.0276	0.0318

#	Name	Abs Diff	%Diff
46	EMPTY	0.1044	0.2743
47	EMPTY	0.0345	0.0879
48	TAI130048	0.0083	0.0095
49	TAI130136	0.0231	0.0266
50	TAI130224	0.0071	0.0081
51	TAI130312	0.0071	0.0082
52	TRR130000	0.0261	0.0301
53	TSI000001	0.0628	0.0784
54	TSI000002	0.0443	0.0622
55	TSO000001	0.0406	0.0597
56	TSO000002	0.0015	0.0019
57	TAF020136	0.0285	0.0328
58	TAF120312	0.0531	0.0707
59	TAF130312	0.0497	0.0574
60	EMPTY	0.0001	0.0212
61	EMPTY	0.0004	0.0820
62	EMPTY	0.0010	0.1994
63	EMPTY	0.0002	0.0386
64	EMPTY	0.0004	0.1224
65	EMPTY	0.0001	0.0288
66	EMPTY	0.0007	0.1933
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0009	0.2276
69	EMPTY	0.0016	0.3872
70	EMPTY	0.0003	0.0699
71	EMPTY	0.0016	0.3528
72	EMPTY	0.0011	0.2360
73	EMPTY	0.0007	0.1444
74	EMPTY	0.0007	0.1393
75	EMPTY	0.0005	0.0965
76	EMPTY	0.0001	0.0188
77	EMPTY	0.0002	0.0362
78	EMPTY	0.0001	0.0174
79	EMPTY	0.0000	0.0000
80	PAN020136	0.0323	0.7929
81	PAN050136	0.0786	1.1438
82	PAN070136	0.0111	0.3097
83	PAN080136	0.0022	0.0756
84	PAN090136	0.0174	0.6749
85	PAN100136	0.0727	3.4239
86	PAN105136	0.0149	13.2917
87	PAN110136	0.0232	3.3849
88	PAN115136	0.0087	1.8738
89	PAN120136	0.0179	0.9240
90	PAN125136	0.0195	1.3839
91	PAN130136	0.0147	0.9249
92	PAN120048	0.0068	0.2186
93	PAN130048	0.0043	0.1515
94	PAN120224	0.0044	0.1912
95	PAN130224	0.0013	0.0440
96	PAN120312	0.0257	1.1787
97	PAN130312	0.0105	0.3442
98	PAB000136	0.0087	0.0297
99	PAB100136	0.0147	0.0491
100	PAB125136	0.0190	0.0630

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0233	0.0805
102	PRV000001	0.0382	0.1890
103	PSR000001	0.0108	0.0361
104	PFM000001	0.0115	0.0758
105	PAN000136	0.0697	0.2535
106	PFM000002	0.0235	0.1582
107	EMPTY	0.0003	7.3171
108	EMPTY	0.0288	0.2920
109	EMPTY	0.0006	37.5000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0154	14.9951
113	VPW000002	0.0002	6.4516
114	VPW000003	0.0365	760.4166
115	VPW000004	0.0023	4.9251
116	VPW000005	0.0137	204.4776
117	VPW000006	0.0150	29.0698
118	IPW000001	14.4290	1088.1598
119	IPW000002	12.5669	65.8201
120	IPW000003	0.2603	2.0587
121	IPW000004	0.0401	2.0308
122	IPW000005	0.0207	0.5627
123	IPW000006	0.0464	2.0392
124	EMPTY	0.0010	4.9261
125	EMPTY	0.0010	7.3529
126	EMPTY	0.0015	8.1967
127	EMPTY	0.0010	6.3694
128	IHT000001	0.0142	8.6903
129	IHT000002	0.0047	3.7751
130	IHT000003	0.0016	0.6470
131	IHT000004	0.0209	13.6512
132	IHT000005	0.0191	14.9569
133	IHT000006	0.0073	100.0000
134	IHT000007	0.0117	12.7590
135	IHT000008	0.0127	7.9824
136	IHT000009	0.0244	13.8165
137	IHT000010	0.0067	6.8718
138	IHT000011	0.0322	33.6820
139	IHT000012	0.0245	16.9199
140	IHT000013	0.0012	3.6697
141	IHT000014	0.0069	6.5527
142	IHT000015	0.0138	9.1877
143	IHT000016	0.0004	0.2867
144	IHT000017	0.0120	100.0000
145	IHT000018	0.0104	2.6236
146	IHT000019	0.0075	36.5854
147	IHT000020	0.0275	22.3577
148	IHT000021	0.0115	0.3442
149	IHT000022	0.0304	15.6540
150	IHT000023	0.0073	5.8824
151	IHT000024	0.0015	0.7106
152	IHT000025	0.0135	19.4245
153	IHT000026	0.0088	20.4651
154	IHT000027	0.0173	13.4213
155	IHT000028	0.0515	102.5896

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0074	5.7812
157	IHT000030	0.0036	3.7578
158	IHT000031	0.0077	7.7856
159	IHT000032	0.0012	2.0478
160	IHT000033	0.0053	0.0142
161	IHT000034	0.0095	23.1144
162	IHT000035	0.0176	19.7309
163	IHT000036	0.0243	118.5366

Velocity 1 = 8.0828 (ft/sec) (+/- 4.2702 %)
Velocity 2 = 7.9342 (ft/sec) (+/- 3.5934 %)
Pressure drop = -2.3693 (psi)
Tsat in = 245.9119 (deg F) Tsat out = 250.2814 (deg F)
Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 2472.6531 %)
Phi outer = 0.0003 (kBtu/hr-ft2) (+/- 1497.7393 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.1838	74.8213	74.5663	1.7702e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.1930	1.2815e-01	1.9000e+00
2	TFM0000001	86.4518	87.2903	86.8542	2.1420e-01	1.9002e+00
3	TIN0000001	86.8362	87.5712	87.2100	1.7128e-01	1.9002e+00
4	TRV0000001	86.5249	87.3626	86.8936	2.0419e-01	1.9002e+00
5	TSR0000001	87.3472	87.9755	87.6238	1.5075e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.1376	87.0795	86.5227	2.0668e-01	1.9002e+00
8	TAO070136	87.5283	88.3697	87.8946	1.9025e-01	1.9002e+00
9	TAO080136	87.0052	87.9467	87.4743	1.8931e-01	1.9002e+00
10	TAO090136	86.8788	87.6123	87.2727	1.7142e-01	1.9002e+00
11	TAO100136	87.0849	87.9235	87.4958	1.7325e-01	1.9002e+00
12	TAO105136	87.1270	88.2806	87.7186	2.4697e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.0920	1.4074e-01	1.9011e+00
14	TAO115136	86.5440	87.4907	86.9945	2.3480e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5835	9.2945e-02	1.9010e+00
16	TAO125136	86.8776	87.7154	87.3383	1.9287e-01	1.9002e+00
17	TAO130136	86.9369	87.5636	87.2725	1.5501e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2982	1.2151e-01	1.9011e+00
19	TAO130048	86.8375	87.5714	87.2403	1.6851e-01	1.9002e+00
20	TAO120224	86.6423	87.2717	86.9989	1.5862e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8800	1.2591e-01	1.9010e+00
22	TAO120312	86.9213	87.6558	87.2066	1.9432e-01	1.9002e+00
23	TAO130312	86.5058	87.2399	86.8710	1.7881e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3302	1.7966e-01	1.9010e+00
25	TRT070000	86.8178	87.5539	87.1370	1.6864e-01	1.9002e+00
26	TRT100000	87.1108	88.1574	87.7177	2.5200e-01	1.9002e+00
27	TRT120000	87.0201	87.8585	87.4686	1.7604e-01	1.9002e+00
28	TRT125000	86.8958	87.8370	87.4898	1.9287e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5919	1.0787e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6745	1.7504e-01	1.9011e+00
31	TAF050136	86.9554	87.7928	87.4493	2.0074e-01	1.9002e+00
32	TAF070136	87.5520	88.5960	88.0740	2.2714e-01	1.9002e+00
33	TAF080136	87.0584	87.8939	87.3929	1.9002e-01	1.9002e+00
34	TAF090136	87.3364	88.3841	87.7849	2.8475e-01	1.9002e+00
35	TAF100136	86.7904	87.5253	87.2356	1.5081e-01	1.9002e+00
36	TAF105136	87.0687	88.0071	87.4989	2.4449e-01	1.9002e+00
37	TAF110136	86.7533	87.5907	87.2596	1.8603e-01	1.9002e+00
38	TAF115136	87.3236	88.1621	87.7640	2.0843e-01	1.9002e+00
39	TAF120136	87.1050	87.6298	87.4157	1.3893e-01	1.9002e+00
40	TAF125136	87.3792	88.0070	87.6649	1.5964e-01	1.9002e+00
41	TAF130136	87.1796	87.7044	87.4778	1.4740e-01	1.9002e+00
42	TAF120048	87.2942	88.2424	87.7995	2.3800e-01	1.9002e+00
43	TAF130048	86.9983	87.5232	87.2671	1.5605e-01	1.9002e+00
44	TAF120224	87.2182	87.8478	87.4744	1.6573e-01	1.9002e+00
45	TAF130224	86.6376	87.1627	86.9527	1.3248e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1307	2.4619e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1924	9.2786e-02	1.9010e+00
48	TAI130048	86.9848	88.1385	87.6142	2.8738e-01	1.9002e+00
49	TAI130136	86.6133	87.4511	87.0698	2.1338e-01	1.9002e+00
50	TAI130224	87.0581	88.2137	87.6971	2.6148e-01	1.9002e+00
51	TAI130312	86.6707	87.5105	87.0989	1.9765e-01	1.9002e+00
52	TRR130000	86.3395	87.3868	86.8172	2.1281e-01	1.9002e+00
53	TSI000001	79.6180	80.3565	80.0443	1.6221e-01	1.9001e+00
54	TSI000002	70.7237	71.7853	71.2036	2.5210e-01	1.9000e+00
55	TSO000001	67.6608	68.4093	67.9818	2.1274e-01	1.9000e+00
56	TSO000002	79.5789	80.6343	80.1066	2.1748e-01	1.9001e+00
57	TAF020136	86.6660	87.4029	87.0532	1.7341e-01	1.9002e+00
58	TAF120312	74.5334	75.8042	75.1350	2.9216e-01	1.9000e+00
59	TAF130312	86.5105	87.1404	86.8088	1.6739e-01	1.9002e+00
60	EMPTY	0.4736	0.4834	0.4785	9.8648e-04	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4933	6.9053e-04	0.0000e+00
62	EMPTY	0.5029	0.5078	0.5077	6.9053e-04	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5230	1.6028e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3273	9.6655e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3469	9.6655e-04	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3658	1.3381e-03	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3821	2.1635e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4299	9.6655e-04	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4687	6.9053e-04	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4881	9.6655e-04	0.0000e+00
74	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5218	1.7115e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5367	1.3381e-03	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5560	1.7115e-03	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5770	1.8082e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6008	9.6655e-04	0.0000e+00
80	PAN020136	-8.9762	-8.5947	-8.7351	8.7682e-02	8.7027e-01
81	PAN050136	-16.1400	-15.5296	-15.8592	1.2844e-01	1.6805e+00
82	PAN070136	-10.2114	-9.8299	-9.9428	9.7777e-02	8.7036e-01
83	PAN080136	-5.9302	-5.6251	-5.7868	7.8049e-02	8.7012e-01
84	PAN090136	-5.6162	-5.2347	-5.4239	7.2690e-02	8.7011e-01
85	PAN100136	-5.2773	-5.0484	-5.1354	7.5527e-02	8.7009e-01
86	PAN105136	-1.9036	-1.6747	-1.7327	6.4591e-02	8.7001e-01
87	PAN110136	-2.4494	-2.2205	-2.3670	6.6903e-02	8.7002e-01
88	PAN115136	-2.1016	-1.8727	-2.0101	6.3552e-02	8.7001e-01
89	PAN120136	-3.4265	-3.1213	-3.2586	6.7187e-02	8.7004e-01
90	PAN125136	-2.8999	-2.7473	-2.8343	5.5596e-02	8.7003e-01
91	PAN130136	-3.0069	-2.7018	-2.8437	6.8949e-02	8.7003e-01
92	PAN120048	-6.2133	-5.9845	-6.0806	6.6850e-02	8.7013e-01
93	PAN130048	-5.7175	-5.4886	-5.6351	6.5103e-02	8.7011e-01
94	PAN120224	-5.3625	-5.0573	-5.2129	6.7116e-02	8.7010e-01
95	PAN130224	-5.7688	-5.5399	-5.6437	5.9218e-02	8.7011e-01
96	PAN120312	-5.2656	-5.0367	-5.1710	6.4591e-02	8.7010e-01
97	PAN130312	-5.8950	-5.7424	-5.8110	6.0192e-02	8.7012e-01
98	PAB000136	27.6551	27.7924	27.7338	3.8176e-02	5.8413e-01
99	PAB100136	29.3524	29.4897	29.4302	3.4911e-02	5.8465e-01
100	PAB125136	29.8532	29.9905	29.9136	4.0776e-02	5.8480e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	27.4464	27.5685	27.4757	5.2663e-02	7.5314e-01
102	PRV000001	20.2936	20.4157	20.3766	5.7521e-02	7.5173e-01
103	PSR000001	29.8409	29.9630	29.8580	4.2787e-02	7.5371e-01
104	PFM000001	9.8737	10.2399	10.0513	9.5054e-02	5.0063e-01
105	PAN000136	-66.1989	-64.8256	-65.5947	3.3905e-01	4.9227e+00
106	PFM000002	9.0775	10.2689	9.6809	2.6373e-01	2.0146e-01
107	EMPTY	-0.0049	0.0049	0.0018	3.6593e-03	0.0000e+00
108	EMPTY	-10.0000	-8.6670	-9.9268	2.2919e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0008	1.8082e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0831	1.0410e-01	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0086	9.2456e-02	8.1000e-01
114	VPW000003	-0.0400	0.1553	0.0303	9.4702e-02	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0819	1.0440e-01	8.1000e-01
116	VPW000005	-0.1200	0.2706	-0.0067	1.0507e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0359	1.2072e-01	8.1000e-01
118	IPW000001	-9.4087	-5.5040	-7.6907	1.2866e+00	8.1002e+00
119	IPW000002	-8.2047	-2.3509	-5.0827	1.3656e+00	8.1001e+00
120	IPW000003	5.8032	11.6532	8.9232	1.4204e+00	8.1003e+00
121	IPW000004	1.4531	2.4297	2.0000	2.5420e-01	2.0001e+00
122	IPW000005	-1.2764	-0.3000	-0.9444	2.8656e-01	2.0000e+00
123	IPW000006	-8.3008	-5.3711	-6.9238	5.9753e-01	2.0007e+00
124	EMPTY	-0.0293	-0.0146	-0.0207	3.2057e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.8996e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0181	3.4527e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0150	3.0345e-03	0.0000e+00
128	IHT000001	-0.2494	0.1412	-0.1322	1.1161e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1167	1.1168e-01	4.1000e+00
130	IHT000003	-0.3294	0.0613	-0.2083	1.0358e-01	4.1000e+00
131	IHT000004	-0.2000	0.1906	-0.1453	9.6976e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.0964	1.0741e-01	4.1000e+00
133	IHT000006	-0.1528	0.2378	0.0073	1.2901e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0995	9.8648e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1630	1.1361e-01	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1766	8.4997e-02	4.1000e+00
137	IHT000010	-0.3553	0.0353	-0.1014	1.0625e-01	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1191	9.6655e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1527	9.4125e-02	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0366	9.2034e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1131	9.3043e-02	4.1000e+00
142	IHT000015	-0.4353	-0.0447	-0.1658	1.0358e-01	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1552	8.5454e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0742	2.5842e-01	4.1000e+00
145	IHT000018	0.2753	0.4706	0.3808	9.8332e-02	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0048	7.5798e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0956	7.8523e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3491	8.6810e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1825	9.2034e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1280	6.8459e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2150	9.4702e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0930	9.8648e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0586	9.0412e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1055	9.8332e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0150	1.1049e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1084	1.0106e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1153	8.8233e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0872	1.2251e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0508	8.6541e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3638	7.8918e-02	4.1170e+00
161	IHT000034	-0.2753	0.3106	0.0216	1.1327e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.0931	1.3182e-01	4.1000e+00
163	IHT000036	-0.2353	0.3506	-0.0205	1.1334e-01	4.1000e+00

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sum2

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Velocity 1 = 8.0679 (ft/sec) (+/- 4.2756 %)
Velocity 2 = 7.9729 (ft/sec) (+/- 3.5910 %)
Pressure drop = -2.3729 (psi)
Tsat in = 245.9152 (deg F) Tsat out = 250.3200 (deg F)
Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 2357.4236 %)
Phi outer = 0.0004 (kBtu/hr-ft2) (+/- 1129.2191 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5741	1.6993e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1680	1.3536e-01	1.9000e+00
2	TFM000001	86.3471	87.3949	86.8368	2.1215e-01	1.9002e+00
3	TIN000001	86.9409	87.5712	87.2113	1.7014e-01	1.9002e+00
4	TRV000001	86.4207	87.1537	86.8542	1.7480e-01	1.9002e+00
5	TSR000001	87.2436	87.9755	87.6166	1.6131e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.2413	86.8706	86.4943	1.8012e-01	1.9002e+00
8	TAO070136	87.3185	88.3697	87.8549	2.0499e-01	1.9002e+00
9	TAO080136	87.1104	87.7384	87.4477	1.4841e-01	1.9002e+00
10	TAO090136	86.8783	87.7169	87.2850	2.1662e-01	1.9002e+00
11	TAO100136	86.8754	87.8184	87.4358	1.9446e-01	1.9002e+00
12	TAO105136	87.3364	88.1760	87.7350	2.1838e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1176	1.3164e-01	1.9011e+00
14	TAO115136	86.5440	87.4907	86.9844	2.4545e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5609	7.0351e-02	1.9010e+00
16	TAO125136	86.9824	87.7154	87.3050	1.4951e-01	1.9002e+00
17	TAO130136	86.8355	87.5636	87.2560	1.6603e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.3000	1.2211e-01	1.9011e+00
19	TAO130048	86.9423	87.5714	87.2506	1.7813e-01	1.9002e+00
20	TAO120224	86.6423	87.2717	87.0019	1.3711e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8792	1.1814e-01	1.9010e+00
22	TAO120312	86.9213	87.6553	87.2339	1.6793e-01	1.9002e+00
23	TAO130312	86.5066	87.1347	86.8593	1.5966e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.2683	1.9942e-01	1.9010e+00
25	TRT070000	86.8170	87.4492	87.1200	1.5587e-01	1.9002e+00
26	TRT100000	87.3199	88.1574	87.7514	2.2060e-01	1.9002e+00
27	TRT120000	87.1248	87.7539	87.4649	1.7056e-01	1.9002e+00
28	TRT125000	87.2093	87.9405	87.5039	1.6049e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5776	8.9315e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7181	1.9945e-01	1.9011e+00
31	TAF050136	87.1639	87.7928	87.4167	1.6409e-01	1.9002e+00
32	TAF070136	87.7603	88.4914	88.1143	1.8311e-01	1.9002e+00
33	TAF080136	87.0584	87.6860	87.4379	1.4120e-01	1.9002e+00
34	TAF090136	87.1270	88.2790	87.7385	2.5335e-01	1.9002e+00
35	TAF100136	86.7908	87.5253	87.2040	1.8358e-01	1.9002e+00
36	TAF105136	87.0683	88.0071	87.5246	2.2292e-01	1.9002e+00
37	TAF110136	86.7528	87.5907	87.2529	1.8662e-01	1.9002e+00
38	TAF115136	87.4288	88.0576	87.8050	1.7230e-01	1.9002e+00
39	TAF120136	87.2097	87.6298	87.4114	1.2277e-01	1.9002e+00
40	TAF125136	87.2761	88.1121	87.6515	1.7193e-01	1.9002e+00
41	TAF130136	87.1801	87.7044	87.4817	1.2964e-01	1.9002e+00
42	TAF120048	87.2942	88.3470	87.8487	2.1894e-01	1.9002e+00
43	TAF130048	86.9985	87.5232	87.2790	1.3273e-01	1.9002e+00
44	TAF120224	87.1142	87.9524	87.4647	1.6921e-01	1.9002e+00
45	TAF130224	86.7424	87.2689	86.9528	1.3733e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1522	2.1190e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2589	1.1598e-01	1.9010e+00
48	TAI130048	86.8802	88.3481	87.6506	3.3331e-01	1.9002e+00
49	TAI130136	86.6133	87.6600	87.0535	2.2810e-01	1.9002e+00
50	TAI130224	87.0581	88.1091	87.5451	2.8426e-01	1.9002e+00
51	TAI130312	86.6702	87.4053	87.0177	1.8085e-01	1.9002e+00
52	TRR130000	86.3391	87.2821	86.8312	2.0415e-01	1.9002e+00
53	TSI000001	79.7234	80.4617	80.0466	1.7929e-01	1.9001e+00
54	TSI000002	70.7237	71.7853	71.2221	2.4626e-01	1.9000e+00
55	TSO000001	67.6608	68.4093	68.0038	1.8769e-01	1.9000e+00
56	TSO000002	79.5785	80.6343	80.0485	2.2605e-01	1.9001e+00
57	TAF020136	86.6655	87.5081	87.0397	1.8753e-01	1.9002e+00
58	TAF120312	74.5329	75.5926	75.1602	2.7078e-01	1.9000e+00
59	TAF130312	86.4062	87.2451	86.7957	1.8537e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4790	1.4934e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4933	6.9754e-04	0.0000e+00
62	EMPTY	0.5029	0.5078	0.5076	9.7615e-04	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5226	6.9754e-04	0.0000e+00
64	EMPTY	0.3271	0.3271	0.3271	0.0000e+00	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3468	6.9754e-04	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3654	1.8234e-03	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3812	1.1827e-03	0.0000e+00
68	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4298	6.9754e-04	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4880	1.1827e-03	0.0000e+00
74	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5217	1.8234e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5361	1.9883e-03	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5550	2.3135e-03	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5765	1.1827e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6007	6.9754e-04	0.0000e+00
80	PAN020136	-8.9762	-8.5184	-8.7629	9.0781e-02	8.7028e-01
81	PAN050136	-16.1400	-15.5296	-15.8099	1.5681e-01	1.6805e+00
82	PAN070136	-10.1351	-9.8299	-9.9856	9.9669e-02	8.7036e-01
83	PAN080136	-5.9302	-5.7014	-5.7994	7.1366e-02	8.7012e-01
84	PAN090136	-5.6162	-5.2347	-5.4278	7.1540e-02	8.7011e-01
85	PAN100136	-5.2773	-5.0484	-5.1605	7.1540e-02	8.7010e-01
86	PAN105136	-1.9036	-1.6747	-1.7339	5.4541e-02	8.7001e-01
87	PAN110136	-2.4494	-2.2205	-2.3622	6.9647e-02	8.7002e-01
88	PAN115136	-2.1016	-1.8727	-1.9646	7.3012e-02	8.7001e-01
89	PAN120136	-3.3502	-3.1213	-3.2630	5.6151e-02	8.7004e-01
90	PAN125136	-2.8999	-2.7473	-2.8205	5.3856e-02	8.7003e-01
91	PAN130136	-3.0069	-2.7018	-2.8621	7.3451e-02	8.7003e-01
92	PAN120048	-6.2896	-5.9845	-6.0935	7.7867e-02	8.7013e-01
93	PAN130048	-5.7175	-5.4886	-5.6505	6.7224e-02	8.7011e-01
94	PAN120224	-5.3625	-5.0573	-5.2208	6.6073e-02	8.7010e-01
95	PAN130224	-5.8451	-5.5399	-5.6536	6.8101e-02	8.7011e-01
96	PAN120312	-5.2656	-4.9604	-5.1659	7.3384e-02	8.7010e-01
97	PAN130312	-5.8950	-5.7424	-5.8015	5.8820e-02	8.7012e-01
98	PAB000136	27.6551	27.8382	27.7354	4.1295e-02	5.8413e-01
99	PAB100136	29.3524	29.4897	29.4337	4.4091e-02	5.8465e-01
100	PAB125136	29.8074	30.0363	29.9335	6.3050e-02	5.8481e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	27.4464	27.5685	27.4913	5.9458e-02	7.5314e-01
102	PRV000001	20.2936	20.4157	20.3883	5.1461e-02	7.5173e-01
103	PSR000001	29.8409	29.9630	29.8733	5.4452e-02	7.5371e-01
104	PFM000001	9.7821	10.2399	10.0138	1.0588e-01	5.0063e-01
105	PAN000136	-66.1989	-64.8256	-65.6945	3.2697e-01	4.9227e+00
106	PFM000002	9.1111	10.3360	9.7768	2.5651e-01	2.0149e-01
107	EMPTY	-0.0049	0.0049	0.0018	3.4083e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4336	-9.9626	1.0674e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0004	1.3508e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0992	7.5986e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0206	6.7148e-02	8.1000e-01
114	VPW000003	-0.0400	0.1553	0.0357	9.6150e-02	8.1000e-01
115	VPW000004	-0.2306	0.3553	0.0723	1.2646e-01	8.1000e-01
116	VPW000005	-0.1200	0.2706	0.0076	1.0204e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0326	9.7656e-02	8.1000e-01
118	IPW000001	-11.3611	-1.5994	-7.8947	2.4652e+00	8.1002e+00
119	IPW000002	-6.2534	-2.3509	-5.2181	1.1337e+00	8.1001e+00
120	IPW000003	1.9032	13.6032	8.9471	2.9738e+00	8.1003e+00
121	IPW000004	1.4531	2.4297	1.9115	3.3665e-01	2.0001e+00
122	IPW000005	-1.2764	-0.3000	-0.8380	2.6825e-01	2.0000e+00
123	IPW000006	-9.2773	-2.9297	-6.7961	2.2985e+00	2.0007e+00
124	EMPTY	-0.0293	-0.0146	-0.0216	3.1518e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.8155e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	2.9146e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0155	3.2562e-03	0.0000e+00
128	IHT000001	-0.4447	-0.0541	-0.1816	1.0204e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1532	1.0076e-01	4.1000e+00
130	IHT000003	-0.3294	-0.1341	-0.2736	8.9148e-02	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1761	7.5986e-02	4.1000e+00
132	IHT000005	-0.2800	0.3059	-0.1166	1.0806e-01	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0013	9.9792e-02	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.1199	8.8965e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1758	9.7656e-02	4.1000e+00
136	IHT000009	-0.3953	0.1906	-0.1601	9.7490e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1122	8.4860e-02	4.1000e+00
138	IHT000011	-0.2753	-0.0800	-0.1159	7.6412e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1693	9.5812e-02	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0418	9.3931e-02	4.1000e+00
141	IHT000014	-0.1600	0.0353	-0.1162	8.2338e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1443	9.8648e-02	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1240	4.8662e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0678	2.5699e-01	4.1000e+00
145	IHT000018	0.2753	0.4706	0.3829	9.8153e-02	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0121	7.9736e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0915	7.3601e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3288	8.6187e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1798	9.9303e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1234	7.2937e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2136	9.5132e-02	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.0790	1.1276e-01	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0797	9.6990e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1315	9.2540e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0147	9.6318e-02	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1115	9.9792e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1034	8.3705e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0708	1.0533e-01	4.1000e+00
159	IHT000032	-0.1953	0.1953	0.0399	8.8965e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3845	9.0949e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0555	1.1419e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.0829	1.3112e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0001	9.7490e-02	4.1000e+00

Velocity 1 = 0.014900 (ft/sec)
 Velocity 2 = 0.038700 (ft/sec)
 Pressure Drop = 0.003600 (psi)
 Tsat in = 0.003311 (deg F) Tsat out = 0.038605 (deg F)
 Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF0000001	0.0078	0.0105
1	TRF0000002	0.0250	0.0332
2	TFM0000001	0.0174	0.0200
3	TIN0000001	0.0013	0.0015
4	TRV0000001	0.0394	0.0453
5	TSR0000001	0.0072	0.0082
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0284	0.0328
8	TAO070136	0.0397	0.0452
9	TAO080136	0.0266	0.0304
10	TAO090136	0.0123	0.0141
11	TAO100136	0.0600	0.0686
12	TAO105136	0.0164	0.0187
13	EMPTY	0.0256	0.0623
14	TAO115136	0.0101	0.0116
15	EMPTY	0.0226	0.0601
16	TAO125136	0.0333	0.0381
17	TAO130136	0.0165	0.0189
18	EMPTY	0.0018	0.0044
19	TAO130048	0.0103	0.0118
20	TAO120224	0.0030	0.0034
21	EMPTY	0.0008	0.0021
22	TAO120312	0.0273	0.0313
23	TAO130312	0.0117	0.0135
24	EMPTY	0.0619	0.1574
25	TRT070000	0.0170	0.0195
26	TRT100000	0.0337	0.0384
27	TRT120000	0.0037	0.0042
28	TRT125000	0.0141	0.0161
29	EMPTY	0.0143	0.0361
30	EMPTY	0.0436	0.1099
31	TAF050136	0.0326	0.0373
32	TAF070136	0.0403	0.0458
33	TAF080136	0.0450	0.0515
34	TAF090136	0.0464	0.0529
35	TAF100136	0.0316	0.0362
36	TAF105136	0.0257	0.0294
37	TAF110136	0.0067	0.0077
38	TAF115136	0.0410	0.0467
39	TAF120136	0.0043	0.0049
40	TAF125136	0.0134	0.0153
41	TAF130136	0.0039	0.0045
42	TAF120048	0.0492	0.0560
43	TAF130048	0.0119	0.0136
44	TAF120224	0.0097	0.0111
45	TAF130224	0.0001	0.0001

#	Name	Abs Diff	%Diff
46	EMPTY	0.0215	0.0564
47	EMPTY	0.0665	0.1697
48	TAI130048	0.0364	0.0415
49	TAI130136	0.0163	0.0187
50	TAI130224	0.1520	0.1733
51	TAI130312	0.0812	0.0932
52	TRR130000	0.0140	0.0161
53	TSI000001	0.0023	0.0029
54	TSI000002	0.0185	0.0260
55	TSO000001	0.0220	0.0324
56	TSO000002	0.0581	0.0725
57	TAF020136	0.0135	0.0155
58	TAF120312	0.0252	0.0335
59	TAF130312	0.0131	0.0151
60	EMPTY	0.0005	0.1045
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0001	0.0197
63	EMPTY	0.0004	0.0765
64	EMPTY	0.0002	0.0611
65	EMPTY	0.0001	0.0288
66	EMPTY	0.0004	0.1094
67	EMPTY	0.0009	0.2355
68	EMPTY	0.0001	0.0253
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0001	0.0233
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0001	0.0213
73	EMPTY	0.0001	0.0205
74	EMPTY	0.0000	0.0000
75	EMPTY	0.0001	0.0192
76	EMPTY	0.0006	0.1118
77	EMPTY	0.0010	0.1799
78	EMPTY	0.0005	0.0867
79	EMPTY	0.0001	0.0166
80	PAN020136	0.0278	0.3183
81	PAN050136	0.0493	0.3109
82	PAN070136	0.0428	0.4305
83	PAN080136	0.0126	0.2177
84	PAN090136	0.0039	0.0719
85	PAN100136	0.0251	0.4888
86	PAN105136	0.0012	0.0693
87	PAN110136	0.0048	0.2028
88	PAN115136	0.0455	2.2636
89	PAN120136	0.0044	0.1350
90	PAN125136	0.0138	0.4869
91	PAN130136	0.0184	0.6470
92	PAN120048	0.0129	0.2122
93	PAN130048	0.0154	0.2733
94	PAN120224	0.0079	0.1515
95	PAN130224	0.0099	0.1754
96	PAN120312	0.0051	0.0986
97	PAN130312	0.0095	0.1635
98	PAB000136	0.0016	0.0058
99	PAB100136	0.0035	0.0119
100	PAB125136	0.0199	0.0665

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0156	0.0568
102	PRV000001	0.0117	0.0574
103	PSR000001	0.0153	0.0512
104	PFM000001	0.0375	0.3731
105	PAN000136	0.0998	0.1521
106	PFM000002	0.0959	0.9906
107	EMPTY	0.0000	0.0000
108	EMPTY	0.0358	0.3606
109	EMPTY	0.0004	50.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0161	19.3743
113	VPW000002	0.0120	139.5349
114	VPW000003	0.0054	17.8218
115	VPW000004	0.0096	11.7216
116	VPW000005	0.0143	213.4328
117	VPW000006	0.0033	9.1922
118	IPW000001	0.2040	2.6526
119	IPW000002	0.1354	2.6639
120	IPW000003	0.0239	0.2678
121	IPW000004	0.0885	4.4250
122	IPW000005	0.1064	11.2664
123	IPW000006	0.1277	1.8444
124	EMPTY	0.0009	4.3478
125	EMPTY	0.0004	2.8369
126	EMPTY	0.0003	1.6575
127	EMPTY	0.0005	3.3333
128	IHT000001	0.0494	37.3676
129	IHT000002	0.0365	31.2768
130	IHT000003	0.0653	31.3490
131	IHT000004	0.0308	21.1975
132	IHT000005	0.0202	20.9544
133	IHT000006	0.0086	117.8082
134	IHT000007	0.0204	20.5025
135	IHT000008	0.0128	7.8528
136	IHT000009	0.0165	9.3431
137	IHT000010	0.0108	10.6509
138	IHT000011	0.0032	2.6868
139	IHT000012	0.0166	10.8710
140	IHT000013	0.0052	14.2076
141	IHT000014	0.0031	2.7409
142	IHT000015	0.0215	12.9674
143	IHT000016	0.0312	20.1031
144	IHT000017	0.0064	8.6253
145	IHT000018	0.0021	0.5515
146	IHT000019	0.0073	152.0833
147	IHT000020	0.0041	4.2887
148	IHT000021	0.0203	0.6061
149	IHT000022	0.0027	1.4795
150	IHT000023	0.0046	3.5938
151	IHT000024	0.0014	0.6512
152	IHT000025	0.0140	15.0538
153	IHT000026	0.0211	36.0068
154	IHT000027	0.0260	24.6446
155	IHT000028	0.0003	2.0000

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0031	2.8598
157	IHT000030	0.0119	10.3209
158	IHT000031	0.0164	18.8073
159	IHT000032	0.0109	21.4567
160	IHT000033	0.0207	0.0554
161	IHT000034	0.0339	156.9444
162	IHT000035	0.0102	10.9560
163	IHT000036	0.0204	99.5122

Velocity 1 = 6.0506 (ft/sec) (+/- 5.6618 %)
Velocity 2 = 5.8737 (ft/sec) (+/- 3.8695 %)
Pressure drop = -3.6147 (psi)
Tsat in = 243.1489 (deg F) Tsat out = 250.0448 (deg F)
Phi inner = -0.0003 (kBtu/hr-ft2) (+/- 3016.1479 %)
Phi outer = -0.0002 (kBtu/hr-ft2) (+/- 483.8588 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5578	1.9935e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.2100	1.0498e-01	1.9000e+00
2	TFM000001	86.5565	87.3944	86.9463	1.7337e-01	1.9002e+00
3	TIN000001	86.9409	87.5712	87.2898	1.3491e-01	1.9002e+00
4	TRV000001	86.6297	87.2579	86.9772	1.6833e-01	1.9002e+00
5	TSR000001	87.4519	87.8709	87.6571	1.3875e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.1376	87.0795	86.5561	2.4382e-01	1.9002e+00
8	TAO070136	87.6338	88.3697	87.9283	1.7896e-01	1.9002e+00
9	TAO080136	87.2151	87.9467	87.5035	1.5340e-01	1.9002e+00
10	TAO090136	86.9835	87.8214	87.3522	2.1921e-01	1.9002e+00
11	TAO100136	87.1896	87.8189	87.5293	1.5655e-01	1.9002e+00
12	TAO105136	87.3364	88.1760	87.7773	2.1721e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1011	1.2459e-01	1.9011e+00
14	TAO115136	86.5440	87.4907	87.0366	2.0977e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5697	8.0626e-02	1.9010e+00
16	TAO125136	87.0863	87.7154	87.3508	1.5165e-01	1.9002e+00
17	TAO130136	87.0416	87.6683	87.2767	1.4095e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2570	1.1340e-01	1.9011e+00
19	TAO130048	86.9423	87.9891	87.3155	1.9986e-01	1.9002e+00
20	TAO120224	86.7471	87.4812	87.0575	1.6689e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8754	1.0052e-01	1.9010e+00
22	TAO120312	86.9208	87.5508	87.2653	1.7367e-01	1.9002e+00
23	TAO130312	86.6105	87.2399	86.9128	1.7551e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3164	2.0120e-01	1.9010e+00
25	TRT070000	86.9225	87.5539	87.2088	1.7928e-01	1.9002e+00
26	TRT100000	87.3194	88.1574	87.7386	2.0934e-01	1.9002e+00
27	TRT120000	87.1248	87.8585	87.4895	1.7244e-01	1.9002e+00
28	TRT125000	87.1057	87.8370	87.5481	1.6836e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5827	9.5613e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7158	1.9254e-01	1.9011e+00
31	TAF050136	87.1639	87.7928	87.5036	1.8149e-01	1.9002e+00
32	TAF070136	87.8649	88.4910	88.1448	1.6542e-01	1.9002e+00
33	TAF080136	87.1631	87.8939	87.4927	1.5428e-01	1.9002e+00
34	TAF090136	87.3360	88.2795	87.7974	2.3567e-01	1.9002e+00
35	TAF100136	86.8956	87.7351	87.3405	1.9503e-01	1.9002e+00
36	TAF105136	87.0683	87.9043	87.5239	2.2177e-01	1.9002e+00
37	TAF110136	87.0669	87.6943	87.3223	1.5284e-01	1.9002e+00
38	TAF115136	87.4283	88.2668	87.8770	2.1590e-01	1.9002e+00
39	TAF120136	87.2097	87.8383	87.4574	1.4168e-01	1.9002e+00
40	TAF125136	87.3808	88.1121	87.7107	1.5741e-01	1.9002e+00
41	TAF130136	87.2843	87.9137	87.5071	1.4937e-01	1.9002e+00
42	TAF120048	87.3988	88.3470	87.8796	2.3223e-01	1.9002e+00
43	TAF130048	87.1030	87.5232	87.3174	1.2723e-01	1.9002e+00
44	TAF120224	87.1133	87.9524	87.5833	1.8494e-01	1.9002e+00
45	TAF130224	86.7424	87.2689	86.9821	1.4413e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1170	2.5118e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1694	6.9589e-02	1.9010e+00
48	TAI130048	87.1946	88.2435	87.6939	2.6676e-01	1.9002e+00
49	TAI130136	86.6133	87.4511	87.1199	2.0549e-01	1.9002e+00
50	TAI130224	87.0581	88.4238	87.6845	3.2813e-01	1.9002e+00
51	TAI130312	86.7755	87.5105	87.1241	2.1155e-01	1.9002e+00
52	TRR130000	86.4443	87.2821	86.8715	2.2475e-01	1.9002e+00
53	TSI000001	79.7234	80.3565	80.0569	1.6826e-01	1.9001e+00
54	TSI000002	70.6176	71.7853	71.0975	2.6805e-01	1.9000e+00
55	TSO000001	67.5540	68.4093	67.9432	2.0350e-01	1.9000e+00
56	TSO000002	79.5785	80.3180	80.0770	1.9205e-01	1.9001e+00
57	TAF020136	86.7707	87.4034	87.1165	1.6765e-01	1.9002e+00
58	TAF120312	74.6392	75.5926	75.1434	2.2703e-01	1.9000e+00
59	TAF130312	86.5110	87.2451	86.8800	1.9101e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4793	1.8082e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4938	1.6028e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5081	1.1714e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5241	2.3365e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3273	9.6655e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3475	1.8082e-03	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3661	6.9053e-04	0.0000e+00
67	EMPTY	0.3809	0.3906	0.3824	2.5034e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4299	9.6655e-04	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4639	0.4736	0.4688	9.8648e-04	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4882	6.9053e-04	0.0000e+00
74	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5224	6.9053e-04	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5368	1.1714e-03	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5562	1.4797e-03	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5774	2.1635e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6007	6.9053e-04	0.0000e+00
80	PAN020136	-13.0198	-12.7146	-12.8794	6.4222e-02	8.7060e-01
81	PAN050136	-24.2271	-23.7694	-24.0410	1.2442e-01	1.6811e+00
82	PAN070136	-15.7808	-15.5519	-15.6740	8.0092e-02	8.7088e-01
83	PAN080136	-8.4479	-8.2191	-8.3243	6.8742e-02	8.7025e-01
84	PAN090136	-8.0576	-7.9050	-7.9798	4.7483e-02	8.7023e-01
85	PAN100136	-8.0239	-7.7187	-7.8881	7.2772e-02	8.7022e-01
86	PAN105136	-3.5058	-3.3532	-3.4142	5.7673e-02	8.7004e-01
87	PAN110136	-4.1278	-3.8989	-3.9707	5.2065e-02	8.7006e-01
88	PAN115136	-3.6275	-3.3986	-3.5161	6.0113e-02	8.7004e-01
89	PAN120136	-4.6472	-4.4183	-4.5389	7.2444e-02	8.7007e-01
90	PAN125136	-4.1969	-3.9680	-4.0473	5.9617e-02	8.7006e-01
91	PAN130136	-4.2276	-3.9988	-4.1315	5.2970e-02	8.7006e-01
92	PAN120048	-8.8836	-8.7310	-8.8150	5.6107e-02	8.7028e-01
93	PAN130048	-8.2352	-8.0826	-8.1528	5.3037e-02	8.7024e-01
94	PAN120224	-8.0328	-7.8802	-7.9443	6.2345e-02	8.7023e-01
95	PAN130224	-8.2865	-8.0576	-8.2148	5.6444e-02	8.7024e-01
96	PAN120312	-8.0122	-7.7070	-7.8458	8.2560e-02	8.7022e-01
97	PAN130312	-8.2601	-8.1075	-8.2036	4.8277e-02	8.7024e-01
98	PAB000136	26.3276	26.5107	26.4274	3.8898e-02	5.8375e-01
99	PAB100136	28.9861	29.1693	29.0530	4.4555e-02	5.8453e-01
100	PAB125136	29.7159	29.8532	29.7918	4.1985e-02	5.8476e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	25.9816	26.2257	26.0988	3.4527e-02	7.5283e-01
102	PRV000001	20.2936	20.4157	20.3424	6.0409e-02	7.5172e-01
103	PSR000001	29.8409	29.9630	29.9288	5.5366e-02	7.5372e-01
104	PFM000001	5.4792	5.7538	5.5890	8.0624e-02	5.0020e-01
105	PAN000136	-100.5312	-99.6157	-100.0734	1.6018e-01	4.9264e+00
106	PFM000002	4.7484	5.6209	5.2622	1.9275e-01	2.0043e-01
107	EMPTY	-0.0049	0.0049	-0.0010	3.9459e-03	0.0000e+00
108	EMPTY	-10.0000	-9.6826	-9.9625	8.9217e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0714	8.3612e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0008	8.3612e-02	8.1000e-01
114	VPW000003	-0.2353	0.1553	0.0147	1.1189e-01	8.1000e-01
115	VPW000004	-0.2306	0.1600	0.0663	1.0617e-01	8.1000e-01
116	VPW000005	-0.3153	0.2706	-0.0302	1.1975e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0438	1.2478e-01	8.1000e-01
118	IPW000001	10.1147	14.0194	11.2861	1.3082e+00	8.1005e+00
119	IPW000002	-16.0098	-10.1560	-13.5512	1.3548e+00	8.1007e+00
120	IPW000003	-15.6468	-9.7968	-13.1898	1.3539e+00	8.1007e+00
121	IPW000004	1.9414	2.4297	2.0977	2.3008e-01	2.0001e+00
122	IPW000005	-0.3000	0.6765	0.3543	2.7210e-01	2.0000e+00
123	IPW000006	8.7891	10.2539	9.5020	3.7186e-01	2.0014e+00
124	EMPTY	-0.0293	-0.0098	-0.0207	4.2499e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.8659e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0183	3.3901e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.3366e-03	0.0000e+00
128	IHT000001	-0.4447	-0.0541	-0.1908	9.8648e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1558	1.1578e-01	4.1000e+00
130	IHT000003	-0.3294	-0.1341	-0.2747	8.8585e-02	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1727	6.8459e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1120	8.8321e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	0.0034	1.0440e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0995	7.1136e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1630	9.0756e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1727	6.8459e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1092	8.6541e-02	4.1000e+00
138	IHT000011	-0.2753	-0.0800	-0.1112	7.2330e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1644	9.3043e-02	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0405	9.3461e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1287	8.2393e-02	4.1000e+00
142	IHT000015	-0.2400	0.1506	-0.1345	1.0595e-01	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1473	6.8459e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0117	2.2808e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3769	1.1327e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0244	6.6498e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1034	5.5804e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3608	7.3716e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1358	7.1136e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2267	9.0412e-02	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.0891	1.0617e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0547	9.6976e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1289	9.3461e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	-0.0084	9.6655e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1084	9.3043e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.0958	8.1347e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0833	9.6735e-02	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0391	7.8918e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3677	8.1729e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0333	1.2534e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.1009	1.1327e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0127	9.6735e-02	4.1000e+00

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Velocity 1 = 6.0608 (ft/sec) (+/- 5.6498 %)
 Velocity 2 = 5.8844 (ft/sec) (+/- 3.8668 %)
 Pressure drop = -3.6136 (psi)
 Tsat in = 242.9514 (deg F) Tsat out = 249.8311 (deg F)
 Phi inner = -0.0003 (kBtu/hr-ft2) (+/- 2908.0256 %)
 Phi outer = -0.0003 (kBtu/hr-ft2) (+/- 2459.7136 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3963	74.8213	74.5958	1.6465e-01	1.9000e+00
1	TRF000002	74.9393	75.5736	75.2327	1.4835e-01	1.9000e+00
2	TFM000001	86.5565	87.3950	86.9736	2.0675e-01	1.9002e+00
3	TIN000001	86.9414	87.6758	87.3055	1.6886e-01	1.9002e+00
4	TRV000001	86.6297	87.4663	86.9908	2.0484e-01	1.9002e+00
5	TSR000001	87.4519	87.8715	87.6679	1.3076e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.2418	87.0795	86.5883	2.0403e-01	1.9002e+00
8	TAO070136	87.6343	88.2651	87.9707	1.6333e-01	1.9002e+00
9	TAO080136	87.3188	87.9467	87.5585	1.5256e-01	1.9002e+00
10	TAO090136	86.9835	87.7169	87.3321	1.7939e-01	1.9002e+00
11	TAO100136	87.1896	87.9235	87.5427	1.5091e-01	1.9002e+00
12	TAO105136	87.4415	88.2806	87.8805	2.1267e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0755	1.1381e-01	1.9011e+00
14	TAO115136	86.6487	87.5954	87.0830	2.1531e-01	1.9002e+00
15	EMPTY	37.3074	37.7675	37.5562	7.9086e-02	1.9009e+00
16	TAO125136	87.0868	87.7154	87.3819	1.6383e-01	1.9002e+00
17	TAO130136	87.0421	87.6683	87.3282	1.5630e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2673	9.9553e-02	1.9011e+00
19	TAO130048	86.9427	87.7803	87.3403	1.5999e-01	1.9002e+00
20	TAO120224	86.6423	87.3764	87.0789	1.6358e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8745	1.2114e-01	1.9010e+00
22	TAO120312	86.9213	87.7604	87.2338	1.7065e-01	1.9002e+00
23	TAO130312	86.6110	87.3446	86.9405	1.9014e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3433	1.9885e-01	1.9010e+00
25	TRT070000	86.7118	87.5539	87.2145	1.6109e-01	1.9002e+00
26	TRT100000	87.3199	88.2612	87.8283	2.1469e-01	1.9002e+00
27	TRT120000	87.1248	87.8585	87.5077	1.6654e-01	1.9002e+00
28	TRT125000	87.2093	88.1498	87.5892	1.8058e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5776	8.9315e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7228	1.9387e-01	1.9011e+00
31	TAF050136	87.1644	87.8975	87.5234	1.8258e-01	1.9002e+00
32	TAF070136	87.7603	88.5960	88.1996	2.2139e-01	1.9002e+00
33	TAF080136	87.1631	87.8939	87.4764	1.8716e-01	1.9002e+00
34	TAF090136	87.3364	88.3841	87.9009	2.8508e-01	1.9002e+00
35	TAF100136	86.8956	87.8398	87.3496	1.9205e-01	1.9002e+00
36	TAF105136	86.9654	88.0076	87.5801	2.2229e-01	1.9002e+00
37	TAF110136	86.9632	87.5907	87.3298	1.5578e-01	1.9002e+00
38	TAF115136	87.4288	88.2668	87.9033	2.1813e-01	1.9002e+00
39	TAF120136	87.2101	87.8383	87.4839	1.4787e-01	1.9002e+00
40	TAF125136	87.4844	88.0085	87.7410	1.3527e-01	1.9002e+00
41	TAF130136	87.2847	87.8091	87.5330	1.4153e-01	1.9002e+00
42	TAF120048	87.3988	88.3470	87.8957	2.2647e-01	1.9002e+00
43	TAF130048	86.9985	87.6278	87.3432	1.5293e-01	1.9002e+00
44	TAF120224	87.2185	88.2664	87.6101	2.2004e-01	1.9002e+00
45	TAF130224	86.7429	87.3735	87.0085	1.5481e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0772	1.9094e-01	1.9010e+00
47	EMPTY	38.9168	39.6057	39.1793	1.1482e-01	1.9010e+00
48	TAI130048	86.9854	88.3481	87.6763	3.2802e-01	1.9002e+00
49	TAI130136	86.8223	87.5557	87.1432	1.8560e-01	1.9002e+00
50	TAI130224	87.0581	88.3183	87.6951	3.1174e-01	1.9002e+00
51	TAI130312	86.6707	87.6151	87.1376	2.3283e-01	1.9002e+00
52	TRR130000	86.4443	87.2824	86.8953	2.2131e-01	1.9002e+00
53	TSI000001	79.7239	80.4618	80.0638	1.8039e-01	1.9001e+00
54	TSI000002	70.7242	71.8913	71.2221	2.9165e-01	1.9000e+00
55	TSO000001	67.5545	68.3025	67.9161	1.6586e-01	1.9000e+00
56	TSO000002	79.7896	80.6343	80.1389	2.0119e-01	1.9001e+00
57	TAF020136	86.6660	87.5081	87.1170	2.0726e-01	1.9002e+00
58	TAF120312	74.6392	75.6981	75.1732	2.6382e-01	1.9000e+00
59	TAF130312	86.5110	87.2451	86.8812	1.7140e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4792	1.7263e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4942	1.9883e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5081	1.1827e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5244	2.4037e-03	0.0000e+00
64	EMPTY	0.3271	0.3271	0.3271	0.0000e+00	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3469	9.7615e-04	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3652	1.9883e-03	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3813	1.3508e-03	0.0000e+00
68	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4540	6.9754e-04	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5030	6.9754e-04	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5222	1.1827e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5370	6.9754e-04	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5559	1.7263e-03	0.0000e+00
78	EMPTY	0.5713	0.5811	0.5765	1.5467e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6007	6.9754e-04	0.0000e+00
80	PAN020136	-13.0198	-12.7146	-12.8703	6.9575e-02	8.7059e-01
81	PAN050136	-24.2271	-23.7694	-24.0091	1.3214e-01	1.6811e+00
82	PAN070136	-15.8571	-15.5519	-15.6578	7.7581e-02	8.7088e-01
83	PAN080136	-8.4479	-8.2191	-8.3312	7.6456e-02	8.7025e-01
84	PAN090136	-8.0576	-7.9050	-7.9642	5.4541e-02	8.7023e-01
85	PAN100136	-8.0239	-7.7187	-7.8682	7.9347e-02	8.7022e-01
86	PAN105136	-3.5058	-3.2769	-3.4124	5.8820e-02	8.7004e-01
87	PAN110136	-4.0515	-3.8226	-3.9643	5.8270e-02	8.7006e-01
88	PAN115136	-3.6275	-3.3986	-3.5092	5.1795e-02	8.7004e-01
89	PAN120136	-4.6472	-4.4183	-4.5195	7.3687e-02	8.7007e-01
90	PAN125136	-4.1969	-3.9680	-4.0785	6.6185e-02	8.7006e-01
91	PAN130136	-4.2276	-4.0751	-4.1311	5.3441e-02	8.7006e-01
92	PAN120048	-8.9599	-8.7310	-8.8182	5.6151e-02	8.7028e-01
93	PAN130048	-8.2352	-8.0826	-8.1480	5.3948e-02	8.7024e-01
94	PAN120224	-8.0328	-7.8039	-7.9425	5.3209e-02	8.7023e-01
95	PAN130224	-8.3628	-8.0576	-8.2009	6.7224e-02	8.7024e-01
96	PAN120312	-8.0122	-7.7070	-7.8362	7.5018e-02	8.7022e-01
97	PAN130312	-8.3364	-8.1075	-8.2071	5.6590e-02	8.7024e-01
98	PAB000136	26.2360	26.4649	26.3360	4.9155e-02	5.8372e-01
99	PAB100136	28.8488	29.1235	28.9469	6.1273e-02	5.8450e-01
100	PAB125136	29.5785	29.8532	29.6822	6.3220e-02	5.8473e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	25.9816	26.1037	26.0015	4.5586e-02	7.5281e-01
102	PRV000001	20.2936	20.4157	20.4007	4.0430e-02	7.5173e-01
103	PSR000001	29.7189	29.9630	29.8210	7.6180e-02	7.5370e-01
104	PFM000001	5.3876	5.8454	5.6081	1.0722e-01	5.0020e-01
105	PAN000136	-100.5312	-99.6157	-100.0454	1.7250e-01	4.9264e+00
106	PFM000002	4.8658	5.6209	5.2815	1.6805e-01	2.0044e-01
107	EMPTY	-0.0049	0.0049	-0.0011	3.8942e-03	0.0000e+00
108	EMPTY	-10.0000	-9.5557	-9.9818	7.5879e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0002	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0793	7.4477e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	0.0033	8.8783e-02	8.1000e-01
114	VPW000003	-0.2353	0.1553	0.0158	9.7656e-02	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0843	1.0409e-01	8.1000e-01
116	VPW000005	-0.1200	0.2706	-0.0204	1.0640e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0445	1.0533e-01	8.1000e-01
118	IPW000001	8.1624	14.0194	11.3100	1.3107e+00	8.1005e+00
119	IPW000002	-16.0098	-10.1560	-13.7798	1.4903e+00	8.1007e+00
120	IPW000003	-15.6468	-11.7468	-13.1795	1.3066e+00	8.1007e+00
121	IPW000004	1.9414	2.4297	2.1706	2.4621e-01	2.0001e+00
122	IPW000005	-0.3000	1.1647	0.2979	2.6863e-01	2.0000e+00
123	IPW000006	8.7891	10.2539	9.5165	4.2430e-01	2.0014e+00
124	EMPTY	-0.0293	-0.0146	-0.0210	4.0121e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.7016e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0172	3.6077e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0153	3.1518e-03	0.0000e+00
128	IHT000001	-0.4447	-0.0541	-0.1736	1.0409e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1611	1.0315e-01	4.1000e+00
130	IHT000003	-0.5247	0.0613	-0.2736	1.0548e-01	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1641	8.6187e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1245	8.8965e-02	4.1000e+00
133	IHT000006	-0.1528	0.0425	-0.0133	8.9148e-02	4.1000e+00
134	IHT000007	-0.2753	-0.0800	-0.1238	8.2338e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.2037	9.7656e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1920	6.8582e-02	4.1000e+00
137	IHT000010	-0.3553	0.2306	-0.1082	1.0378e-01	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1159	8.6187e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1574	8.8965e-02	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0418	9.3931e-02	4.1000e+00
141	IHT000014	-0.1600	0.0353	-0.1201	7.9532e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1722	9.3931e-02	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1439	7.5987e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	-0.0120	1.9697e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3869	1.0548e-01	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0041	7.6412e-02	4.1000e+00
147	IHT000020	-0.2988	0.2872	-0.0995	9.3412e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3448	9.9629e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1718	9.5812e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1434	6.1868e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2176	9.3931e-02	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.0870	1.0625e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0678	1.0955e-01	4.1000e+00
154	IHT000027	-0.3906	0.0000	-0.1355	9.9303e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	-0.0092	8.8965e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1234	1.0044e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1073	8.8783e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0628	1.0188e-01	4.1000e+00
159	IHT000032	-0.1953	0.1953	0.0399	9.7490e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3885	9.2540e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0196	1.0640e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.1029	1.3296e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0161	7.5986e-02	4.1000e+00

Velocity 1 = 0.010200 (ft/sec)
 Velocity 2 = 0.010700 (ft/sec)
 Pressure Drop = 0.001100 (psi)
 Tsat in = 0.197495 (deg F) Tsat out = 0.213699 (deg F)
 Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0380	0.0510
1	TRF000002	0.0227	0.0302
2	TFM000001	0.0273	0.0314
3	TIN000001	0.0157	0.0180
4	TRV000001	0.0136	0.0156
5	TSR000001	0.0108	0.0123
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0322	0.0372
8	TAO070136	0.0424	0.0482
9	TAO080136	0.0550	0.0629
10	TAO090136	0.0201	0.0230
11	TAO100136	0.0134	0.0153
12	TAO105136	0.1032	0.1176
13	EMPTY	0.0256	0.0623
14	TAO115136	0.0464	0.0533
15	EMPTY	0.0135	0.0359
16	TAO125136	0.0311	0.0356
17	TAO130136	0.0515	0.0590
18	EMPTY	0.0103	0.0250
19	TAO130048	0.0248	0.0284
20	TAO120224	0.0214	0.0246
21	EMPTY	0.0009	0.0023
22	TAO120312	0.0315	0.0361
23	TAO130312	0.0277	0.0319
24	EMPTY	0.0269	0.0684
25	TRT070000	0.0057	0.0065
26	TRT100000	0.0897	0.1022
27	TRT120000	0.0182	0.0208
28	TRT125000	0.0411	0.0469
29	EMPTY	0.0051	0.0129
30	EMPTY	0.0070	0.0176
31	TAF050136	0.0198	0.0226
32	TAF070136	0.0548	0.0622
33	TAF080136	0.0163	0.0186
34	TAF090136	0.1035	0.1179
35	TAF100136	0.0091	0.0104
36	TAF105136	0.0562	0.0642
37	TAF110136	0.0075	0.0086
38	TAF115136	0.0263	0.0299
39	TAF120136	0.0265	0.0303
40	TAF125136	0.0303	0.0345
41	TAF130136	0.0259	0.0296
42	TAF120048	0.0161	0.0183
43	TAF130048	0.0258	0.0296
44	TAF120224	0.0268	0.0306
45	TAF130224	0.0264	0.0303

#	Name	Abs Diff	%Diff
46	EMPTY	0.0398	0.1044
47	EMPTY	0.0099	0.0253
48	TAI130048	0.0176	0.0201
49	TAI130136	0.0233	0.0267
50	TAI130224	0.0106	0.0121
51	TAI130312	0.0135	0.0155
52	TRR130000	0.0238	0.0274
53	TSI000001	0.0069	0.0086
54	TSI000002	0.1246	0.1752
55	TSO000001	0.0271	0.0399
56	TSO000002	0.0619	0.0773
57	TAF020136	0.0005	0.0006
58	TAF120312	0.0298	0.0397
59	TAF130312	0.0012	0.0014
60	EMPTY	0.0001	0.0209
61	EMPTY	0.0004	0.0810
62	EMPTY	0.0000	0.0000
63	EMPTY	0.0003	0.0572
64	EMPTY	0.0002	0.0611
65	EMPTY	0.0006	0.1727
66	EMPTY	0.0009	0.2458
67	EMPTY	0.0011	0.2877
68	EMPTY	0.0001	0.0253
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0002	0.0465
71	EMPTY	0.0001	0.0220
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0001	0.0205
74	EMPTY	0.0001	0.0199
75	EMPTY	0.0002	0.0383
76	EMPTY	0.0002	0.0373
77	EMPTY	0.0003	0.0539
78	EMPTY	0.0009	0.1559
79	EMPTY	0.0000	0.0000
80	PAN020136	0.0091	0.0707
81	PAN050136	0.0319	0.1327
82	PAN070136	0.0162	0.1034
83	PAN080136	0.0069	0.0829
84	PAN090136	0.0156	0.1955
85	PAN100136	0.0199	0.2523
86	PAN105136	0.0018	0.0527
87	PAN110136	0.0064	0.1612
88	PAN115136	0.0069	0.1962
89	PAN120136	0.0194	0.4274
90	PAN125136	0.0312	0.7709
91	PAN130136	0.0004	0.0097
92	PAN120048	0.0032	0.0363
93	PAN130048	0.0048	0.0589
94	PAN120224	0.0018	0.0227
95	PAN130224	0.0139	0.1692
96	PAN120312	0.0096	0.1224
97	PAN130312	0.0035	0.0427
98	PAB000136	0.0914	0.3459
99	PAB100136	0.1061	0.3652
100	PAB125136	0.1096	0.3679

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0973	0.3728
102	PRV000001	0.0583	0.2866
103	PSR000001	0.1078	0.3602
104	PFM000001	0.0191	0.3417
105	PAN000136	0.0280	0.0280
106	PFM000002	0.0193	0.3668
107	EMPTY	0.0001	10.0000
108	EMPTY	0.0193	0.1937
109	EMPTY	0.0001	33.3333
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0079	11.0644
113	VPW000002	0.0041	512.5000
114	VPW000003	0.0011	7.4830
115	VPW000004	0.0180	27.1493
116	VPW000005	0.0098	32.4503
117	VPW000006	0.0007	1.5982
118	IPW000001	0.0239	0.2118
119	IPW000002	0.2286	1.6869
120	IPW000003	0.0103	0.0781
121	IPW000004	0.0729	3.4752
122	IPW000005	0.0564	15.9187
123	IPW000006	0.0145	0.1526
124	EMPTY	0.0003	1.4493
125	EMPTY	0.0008	6.1069
126	EMPTY	0.0011	6.0109
127	EMPTY	0.0009	5.5556
128	IHT000001	0.0172	9.0147
129	IHT000002	0.0053	3.4018
130	IHT000003	0.0011	0.4004
131	IHT000004	0.0086	4.9797
132	IHT000005	0.0125	11.1607
133	IHT000006	0.0167	491.1765
134	IHT000007	0.0243	24.4221
135	IHT000008	0.0407	24.9693
136	IHT000009	0.0193	11.1754
137	IHT000010	0.0010	0.9158
138	IHT000011	0.0047	4.2266
139	IHT000012	0.0070	4.2579
140	IHT000013	0.0013	3.2099
141	IHT000014	0.0086	6.6822
142	IHT000015	0.0377	28.0297
143	IHT000016	0.0034	2.3082
144	IHT000017	0.0003	2.5641
145	IHT000018	0.0100	2.6532
146	IHT000019	0.0203	83.1967
147	IHT000020	0.0039	3.7718
148	IHT000021	0.0160	0.4761
149	IHT000022	0.0029	1.6600
150	IHT000023	0.0076	5.5965
151	IHT000024	0.0091	4.0141
152	IHT000025	0.0021	2.3569
153	IHT000026	0.0131	23.9488
154	IHT000027	0.0066	5.1202
155	IHT000028	0.0008	9.5238

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0150	13.8376
157	IHT000030	0.0115	12.0042
158	IHT000031	0.0205	24.6098
159	IHT000032	0.0008	2.0460
160	IHT000033	0.0208	0.0557
161	IHT000034	0.0137	41.1411
162	IHT000035	0.0020	1.9822
163	IHT000036	0.0034	26.7717

Velocity 1 = 4.0386 (ft/sec) (+/- 10.7687 %)
Velocity 2 = 3.7191 (ft/sec) (+/- 5.5607 %)
Pressure drop = -4.5723 (psi)
Tsat in = 240.5737 (deg F) Tsat out = 249.5493 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 10366.9766 %)
Phi outer = -0.0001 (kBtu/hr-ft2) (+/- 1893.9639 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3963	74.8213	74.6343	1.6978e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.2269	1.1106e-01	1.9000e+00
2	TFM000001	86.5565	87.3949	87.0386	1.9853e-01	1.9002e+00
3	TIN000001	87.0461	87.7812	87.4074	1.3609e-01	1.9002e+00
4	TRV000001	86.6297	87.3626	87.0150	1.6974e-01	1.9002e+00
5	TSR000001	87.3472	87.9755	87.6783	1.2392e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.0329	87.0795	86.6525	2.0693e-01	1.9002e+00
8	TAO070136	87.6338	88.5801	88.0208	1.9051e-01	1.9002e+00
9	TAO080136	87.3188	87.9467	87.6247	1.4473e-01	1.9002e+00
10	TAO090136	87.0887	87.9260	87.4235	1.7695e-01	1.9002e+00
11	TAO100136	87.2945	87.9235	87.6216	1.4775e-01	1.9002e+00
12	TAO105136	87.5467	88.3857	87.9117	1.8381e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.0874	1.2433e-01	1.9011e+00
14	TAO115136	86.6499	87.4914	87.1754	2.1985e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5559	6.3038e-02	1.9009e+00
16	TAO125136	87.1915	87.7154	87.4723	1.3624e-01	1.9002e+00
17	TAO130136	87.1468	87.6683	87.3601	1.2097e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2707	1.0152e-01	1.9011e+00
19	TAO130048	87.0474	87.5714	87.3826	1.2164e-01	1.9002e+00
20	TAO120224	86.8520	87.4812	87.1373	1.3247e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8846	1.4684e-01	1.9010e+00
22	TAO120312	87.0260	87.6558	87.3577	1.4280e-01	1.9002e+00
23	TAO130312	86.6110	87.2399	86.9758	1.4242e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.2980	1.7732e-01	1.9010e+00
25	TRT070000	87.0277	87.5539	87.2888	1.4929e-01	1.9002e+00
26	TRT100000	87.5292	88.1574	87.8767	1.5313e-01	1.9002e+00
27	TRT120000	87.3342	87.8585	87.5902	1.5298e-01	1.9002e+00
28	TRT125000	87.3139	87.9405	87.6234	1.6340e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5919	9.7394e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7158	1.8687e-01	1.9011e+00
31	TAF050136	87.2690	87.8970	87.5707	1.6058e-01	1.9002e+00
32	TAF070136	87.7618	88.8041	88.2534	2.1597e-01	1.9002e+00
33	TAF080136	87.1631	87.7892	87.5806	1.4153e-01	1.9002e+00
34	TAF090136	87.4415	88.5933	87.9525	2.7060e-01	1.9002e+00
35	TAF100136	87.0003	87.7351	87.3867	1.7544e-01	1.9002e+00
36	TAF105136	87.1734	88.1122	87.6201	2.1358e-01	1.9002e+00
37	TAF110136	87.0669	87.5907	87.3894	1.3683e-01	1.9002e+00
38	TAF115136	87.5334	88.2668	87.8730	1.7765e-01	1.9002e+00
39	TAF120136	87.2101	87.8383	87.5954	1.5738e-01	1.9002e+00
40	TAF125136	87.4844	88.1121	87.7861	1.4123e-01	1.9002e+00
41	TAF130136	87.2848	87.8091	87.5784	1.4055e-01	1.9002e+00
42	TAF120048	87.5040	88.3470	87.9132	1.9239e-01	1.9002e+00
43	TAF130048	87.1035	87.6281	87.3678	1.1470e-01	1.9002e+00
44	TAF120224	87.3233	87.9524	87.6672	1.8340e-01	1.9002e+00
45	TAF130224	86.8476	87.3735	87.1001	1.2926e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0066	2.2260e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1694	1.0631e-01	1.9010e+00
48	TAI130048	87.1947	88.3481	87.7820	2.8969e-01	1.9002e+00
49	TAI130136	86.8228	87.6600	87.2121	1.9135e-01	1.9002e+00
50	TAI130224	87.2684	88.2141	87.7391	2.7778e-01	1.9002e+00
51	TAI130312	86.7755	87.5105	87.1997	1.5728e-01	1.9002e+00
52	TRR130000	86.5495	87.3860	86.9261	1.9379e-01	1.9002e+00
53	TSI000001	79.7244	80.3565	80.0487	1.6062e-01	1.9001e+00
54	TSI000002	70.6176	71.6788	71.1656	2.6207e-01	1.9000e+00
55	TSO000001	67.4465	68.4093	67.9473	1.8763e-01	1.9000e+00
56	TSO000002	79.5789	80.4233	80.0391	1.8189e-01	1.9001e+00
57	TAF020136	86.8759	87.4034	87.1838	1.6047e-01	1.9002e+00
58	TAF120312	74.6392	75.6986	75.1816	2.5467e-01	1.9000e+00
59	TAF130312	86.6157	87.2451	86.9556	1.7152e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4809	2.4642e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4954	2.4583e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5083	1.4797e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5260	2.2146e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3273	9.6655e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3469	9.6655e-04	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3652	1.9730e-03	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3814	1.6028e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4152	9.6655e-04	0.0000e+00
70	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
74	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5217	1.8082e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5365	1.6028e-03	0.0000e+00
77	EMPTY	0.5469	0.5566	0.5557	2.2058e-03	0.0000e+00
78	EMPTY	0.5713	0.5811	0.5767	1.7784e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6008	9.6655e-04	0.0000e+00
80	PAN020136	-16.1478	-15.9189	-16.0319	6.9345e-02	8.7092e-01
81	PAN050136	-30.3306	-29.8729	-30.1720	1.2316e-01	1.6817e+00
82	PAN070136	-20.1296	-19.9770	-20.0289	4.2043e-02	8.7144e-01
83	PAN080136	-10.4316	-10.2027	-10.3583	7.3857e-02	8.7039e-01
84	PAN090136	-10.1175	-9.8886	-9.9604	5.8511e-02	8.7036e-01
85	PAN100136	-10.0838	-9.8549	-9.9496	7.6387e-02	8.7036e-01
86	PAN105136	-4.8791	-4.6502	-4.7524	6.4682e-02	8.7008e-01
87	PAN110136	-5.1959	-4.9671	-5.1212	6.9771e-02	8.7009e-01
88	PAN115136	-4.6956	-4.4667	-4.5781	5.3860e-02	8.7008e-01
89	PAN120136	-5.6390	-5.4101	-5.5383	5.6508e-02	8.7011e-01
90	PAN125136	-5.1124	-4.9598	-5.0193	5.1791e-02	8.7009e-01
91	PAN130136	-5.1432	-4.9143	-5.0638	5.5489e-02	8.7009e-01
92	PAN120048	-11.0199	-10.7910	-10.9131	6.3552e-02	8.7043e-01
93	PAN130048	-10.2951	-9.9899	-10.1776	6.9293e-02	8.7037e-01
94	PAN120224	-10.1690	-9.9401	-10.0439	5.7176e-02	8.7036e-01
95	PAN130224	-10.2702	-10.0413	-10.1664	4.8154e-02	8.7037e-01
96	PAN120312	-10.0721	-9.8432	-9.9805	5.5575e-02	8.7036e-01
97	PAN130312	-10.3200	-10.0148	-10.1873	6.6850e-02	8.7037e-01
98	PAB000136	25.1832	25.3205	25.2564	3.4604e-02	5.8343e-01
99	PAB100136	28.5284	28.6657	28.5907	4.0057e-02	5.8439e-01
100	PAB125136	29.4870	29.6243	29.5382	3.9928e-02	5.8468e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.8830	25.0050	24.9879	4.2787e-02	7.5260e-01
102	PRV000001	20.4157	20.5377	20.4352	4.5206e-02	7.5174e-01
103	PSR000001	29.7189	29.8409	29.8336	2.9284e-02	7.5370e-01
104	PFM000001	2.2748	2.6410	2.4524	6.5159e-02	5.0004e-01
105	PAN000136	-126.6237	-126.1660	-126.5871	1.2545e-01	4.9302e+00
106	PFM000002	1.8622	2.2817	2.0716	9.6734e-02	2.0007e-01
107	EMPTY	-0.0049	0.0049	-0.0032	2.7213e-03	0.0000e+00
108	EMPTY	-10.0000	-9.8779	-9.9960	2.0305e-02	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0004	1.3381e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	-0.2706	0.1200	-0.0636	8.2864e-02	8.1000e-01
113	VPW0000002	-0.2000	0.1906	-0.0125	7.8523e-02	8.1000e-01
114	VPW0000003	-0.0400	0.3506	0.0264	1.0145e-01	8.1000e-01
115	VPW0000004	-0.0353	0.3553	0.0702	1.0595e-01	8.1000e-01
116	VPW0000005	-0.1200	0.2706	0.0206	1.1189e-01	8.1000e-01
117	VPW0000006	-0.2000	0.1906	0.0031	1.0410e-01	8.1000e-01
118	IPW0000001	-1.5994	6.2100	1.3682	1.4884e+00	8.1000e+00
119	IPW0000002	-0.3996	5.4542	2.6834	1.1213e+00	8.1000e+00
120	IPW0000003	-3.9468	1.9032	-0.9048	1.3161e+00	8.1000e+00
121	IPW0000004	-2.4531	-1.4766	-2.0820	2.3261e-01	2.0001e+00
122	IPW0000005	-0.3000	0.6765	0.0613	2.3776e-01	2.0000e+00
123	IPW0000006	-4.8828	-1.9531	-3.5254	7.9710e-01	2.0002e+00
124	EMPTY	-0.0293	-0.0098	-0.0203	3.7382e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	3.1644e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0173	3.8473e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0154	3.0180e-03	0.0000e+00
128	IHT0000001	-0.4447	-0.0541	-0.1634	1.0559e-01	4.1000e+00
129	IHT0000002	-0.2847	0.1059	-0.1597	1.0259e-01	4.1000e+00
130	IHT0000003	-0.3294	-0.1341	-0.2630	9.3461e-02	4.1000e+00
131	IHT0000004	-0.2000	-0.0047	-0.1609	7.8918e-02	4.1000e+00
132	IHT0000005	-0.2800	0.1106	-0.1238	8.8233e-02	4.1000e+00
133	IHT0000006	-0.1528	0.2378	-0.0200	1.0763e-01	4.1000e+00
134	IHT0000007	-0.2753	0.1153	-0.1073	7.9017e-02	4.1000e+00
135	IHT0000008	-0.3153	-0.1200	-0.1786	9.0412e-02	4.1000e+00
136	IHT0000009	-0.3953	-0.0047	-0.1883	6.1257e-02	4.1000e+00
137	IHT0000010	-0.1600	0.0353	-0.1170	8.1729e-02	4.1000e+00
138	IHT0000011	-0.2753	0.3106	-0.0995	9.0412e-02	4.1000e+00
139	IHT0000012	-0.3128	0.0778	-0.1722	1.0470e-01	4.1000e+00
140	IHT0000013	-0.1694	0.2212	-0.0366	1.0014e-01	4.1000e+00
141	IHT0000014	-0.3553	0.0353	-0.1131	9.3043e-02	4.1000e+00
142	IHT0000015	-0.2400	0.1506	-0.1384	1.0617e-01	4.1000e+00
143	IHT0000016	-0.3153	0.0753	-0.1356	7.7324e-02	4.1000e+00
144	IHT0000017	-0.5859	0.3906	-0.0273	2.3012e-01	4.1000e+00
145	IHT0000018	0.0800	0.6659	0.3730	1.1334e-01	4.1000e+00
146	IHT0000019	-0.0400	0.1553	-0.0088	7.2330e-02	4.1000e+00
147	IHT0000020	-0.2988	0.0919	-0.0839	7.1136e-02	4.1000e+00
148	IHT0000021	3.1694	3.5600	3.3569	6.7888e-02	4.1001e+00
149	IHT0000022	-0.3153	0.0753	-0.1708	9.5112e-02	4.1000e+00
150	IHT0000023	-0.3506	0.0400	-0.1397	6.6498e-02	4.1000e+00
151	IHT0000024	-0.4806	-0.0900	-0.2150	1.0259e-01	4.1000e+00
152	IHT0000025	-0.0047	0.1906	0.0930	9.8648e-02	4.1000e+00
153	IHT0000026	-0.1953	0.0000	-0.0469	8.4262e-02	4.1000e+00
154	IHT0000027	-0.1953	0.0000	-0.1211	9.5765e-02	4.1000e+00
155	IHT0000028	-0.1647	0.2259	0.0345	1.0052e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1514	9.2456e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1231	6.7888e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1067	1.0052e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0820	9.7377e-02	4.1000e+00
160	IHT000033	37.3247	37.7153	37.3989	1.0358e-01	4.1170e+00
161	IHT000034	-0.2753	0.3106	0.0411	1.1084e-01	4.1000e+00
162	IHT000035	0.0012	0.3978	0.1127	1.1975e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0283	9.9902e-02	4.1000e+00

Velocity 1 = 4.0113 (ft/sec) (+/- 10.9035 %)
 Velocity 2 = 3.7027 (ft/sec) (+/- 5.5916 %)
 Pressure drop = -4.5679 (psi)
 Tsat in = 240.5540 (deg F) Tsat out = 249.4909 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 7344.5547 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 2381.8550 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.9712	74.8213	74.6479	1.8745e-01	1.9000e+00
1	TRF000002	75.1508	75.3622	75.2241	1.0168e-01	1.9000e+00
2	TFM000001	86.5554	87.3949	87.0421	2.0485e-01	1.9002e+00
3	TIN000001	87.0459	87.7812	87.3913	1.3727e-01	1.9002e+00
4	TRV000001	86.7335	87.5715	87.0251	1.8652e-01	1.9002e+00
5	TSR000001	87.3468	87.9755	87.6808	1.3958e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.1361	87.0795	86.6823	1.7618e-01	1.9002e+00
8	TAO070136	87.5283	88.4756	88.0223	2.0946e-01	1.9002e+00
9	TAO080136	87.1118	87.9467	87.6012	1.7228e-01	1.9002e+00
10	TAO090136	86.9824	87.7169	87.4048	1.6211e-01	1.9002e+00
11	TAO100136	87.1888	87.9235	87.6283	1.3986e-01	1.9002e+00
12	TAO105136	87.2312	88.3857	87.8592	2.3216e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0849	1.1518e-01	1.9011e+00
14	TAO115136	86.6494	87.4907	87.1561	1.9992e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5609	7.0351e-02	1.9010e+00
16	TAO125136	87.0863	87.7154	87.4546	1.5292e-01	1.9002e+00
17	TAO130136	86.9364	87.6683	87.3792	1.4473e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2532	1.0111e-01	1.9011e+00
19	TAO130048	86.8371	87.7803	87.3831	1.6281e-01	1.9002e+00
20	TAO120224	86.7463	87.4812	87.1303	1.4613e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8839	1.2407e-01	1.9010e+00
22	TAO120312	87.0254	87.7604	87.3794	1.4479e-01	1.9002e+00
23	TAO130312	86.7144	87.2399	86.9961	1.2550e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3198	1.7867e-01	1.9010e+00
25	TRT070000	86.9225	87.5539	87.2963	1.4267e-01	1.9002e+00
26	TRT100000	87.3194	88.1574	87.8412	1.7291e-01	1.9002e+00
27	TRT120000	87.1239	87.8585	87.5548	1.5326e-01	1.9002e+00
28	TRT125000	87.3118	88.0452	87.6404	1.6870e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5729	1.0471e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7181	1.6972e-01	1.9011e+00
31	TAF050136	87.2676	88.0016	87.6173	1.6045e-01	1.9002e+00
32	TAF070136	87.8629	88.5960	88.2465	1.7121e-01	1.9002e+00
33	TAF080136	87.1607	87.7892	87.5870	1.3732e-01	1.9002e+00
34	TAF090136	87.2308	88.3841	87.8668	2.6661e-01	1.9002e+00
35	TAF100136	87.1051	87.7351	87.4053	1.3721e-01	1.9002e+00
36	TAF105136	87.2786	88.1122	87.6568	1.9693e-01	1.9002e+00
37	TAF110136	86.8565	87.6947	87.4109	1.6696e-01	1.9002e+00
38	TAF115136	87.5334	88.2668	87.9205	1.6992e-01	1.9002e+00
39	TAF120136	87.1045	87.8383	87.6118	1.5158e-01	1.9002e+00
40	TAF125136	87.3787	88.1121	87.7880	1.3714e-01	1.9002e+00
41	TAF130136	87.1791	87.8091	87.5887	1.3419e-01	1.9002e+00
42	TAF120048	87.5035	88.3470	87.9818	1.9733e-01	1.9002e+00
43	TAF130048	86.9978	87.6281	87.3689	1.1762e-01	1.9002e+00
44	TAF120224	87.2177	87.9524	87.6486	1.9523e-01	1.9002e+00
45	TAF130224	86.6372	87.3735	87.1246	1.4840e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0631	1.9912e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1511	5.7217e-02	1.9010e+00
48	TAI130048	87.2998	88.4526	87.8090	2.7321e-01	1.9002e+00
49	TAI130136	86.7167	87.6600	87.2158	2.0440e-01	1.9002e+00
50	TAI130224	87.0580	88.4238	87.7551	2.7937e-01	1.9002e+00
51	TAI130312	86.5650	87.6152	87.2106	1.9993e-01	1.9002e+00
52	TRR130000	86.6535	87.2821	86.9765	1.7986e-01	1.9002e+00
53	TSI000001	79.6176	80.5670	80.0769	1.7558e-01	1.9001e+00
54	TSI000002	70.7237	71.6793	71.2006	2.1577e-01	1.9000e+00
55	TSO000001	67.4471	68.4093	67.9248	2.0026e-01	1.9000e+00
56	TSO000002	79.6838	80.4233	80.0830	1.8320e-01	1.9001e+00
57	TAF020136	86.8767	87.7192	87.2117	1.6748e-01	1.9002e+00
58	TAF120312	74.6385	75.5926	75.2251	2.4471e-01	1.9000e+00
59	TAF130312	86.7196	87.2451	86.9626	1.5020e-01	1.9002e+00
60	EMPTY	0.4785	0.4883	0.4814	2.8047e-03	0.0000e+00
61	EMPTY	0.4932	0.5029	0.4966	2.4826e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5086	1.8234e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5268	1.4934e-03	0.0000e+00
64	EMPTY	0.3271	0.3271	0.3271	0.0000e+00	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3474	1.7263e-03	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3660	9.7615e-04	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3819	1.9883e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3956	6.9754e-04	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4151	6.9754e-04	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4301	1.3508e-03	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4687	6.9754e-04	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4882	6.9754e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.5028	6.9754e-04	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5221	1.3508e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5368	1.1827e-03	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5565	6.9754e-04	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5781	2.4037e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6011	1.4934e-03	0.0000e+00
80	PAN020136	-16.1478	-15.9189	-16.0202	8.1501e-02	8.7092e-01
81	PAN050136	-30.3306	-30.0255	-30.1563	9.8495e-02	1.6817e+00
82	PAN070136	-20.1296	-19.8244	-20.0237	6.7554e-02	8.7144e-01
83	PAN080136	-10.4316	-10.2027	-10.3444	7.7867e-02	8.7038e-01
84	PAN090136	-10.1175	-9.8886	-9.9712	7.1088e-02	8.7036e-01
85	PAN100136	-10.0838	-9.8549	-9.9359	6.3083e-02	8.7035e-01
86	PAN105136	-4.8791	-4.6502	-4.7514	5.6982e-02	8.7008e-01
87	PAN110136	-5.2722	-4.9671	-5.1243	6.6817e-02	8.7009e-01
88	PAN115136	-4.6956	-4.4667	-4.5804	4.4384e-02	8.7008e-01
89	PAN120136	-5.6390	-5.3338	-5.5207	6.2413e-02	8.7011e-01
90	PAN125136	-5.1124	-4.9598	-5.0205	5.1603e-02	8.7009e-01
91	PAN130136	-5.1432	-4.9906	-5.0653	5.2789e-02	8.7009e-01
92	PAN120048	-11.0199	-10.7910	-10.9046	4.7037e-02	8.7043e-01
93	PAN130048	-10.3714	-10.0662	-10.1799	6.4442e-02	8.7037e-01
94	PAN120224	-10.1690	-9.9401	-10.0476	6.0151e-02	8.7036e-01
95	PAN130224	-10.2702	-10.1176	-10.1892	5.0243e-02	8.7037e-01
96	PAN120312	-10.1484	-9.9195	-9.9927	5.8185e-02	8.7036e-01
97	PAN130312	-10.2437	-10.0148	-10.1612	7.2774e-02	8.7037e-01
98	PAB000136	25.1832	25.3205	25.2476	3.7281e-02	5.8342e-01
99	PAB100136	28.5284	28.6199	28.5826	3.8155e-02	5.8439e-01
100	PAB125136	29.4412	29.5785	29.5085	4.0839e-02	5.8467e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.8830	25.0050	24.9951	3.3770e-02	7.5260e-01
102	PRV000001	20.4157	20.5377	20.4331	4.3158e-02	7.5174e-01
103	PSR000001	29.7189	29.8409	29.8135	5.1461e-02	7.5369e-01
104	PFM000001	2.2748	2.5495	2.4187	8.1460e-02	5.0004e-01
105	PAN000136	-126.6237	-126.1660	-126.4649	2.2015e-01	4.9301e+00
106	PFM000002	1.7616	2.3153	2.0530	1.1614e-01	2.0007e-01
107	EMPTY	-0.0049	0.0049	-0.0033	2.7091e-03	0.0000e+00
108	EMPTY	-10.0000	-9.3066	-9.9589	1.4953e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0002	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0713	7.4477e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	0.0113	7.8092e-02	8.1000e-01
114	VPW000003	-0.0400	0.1553	0.0317	9.5132e-02	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0803	9.6990e-02	8.1000e-01
116	VPW000005	-0.1200	0.2706	-0.0044	1.1906e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0047	8.9148e-02	8.1000e-01
118	IPW000001	-1.5994	2.3053	-0.3642	1.1751e+00	8.1000e+00
119	IPW000002	-0.3996	7.4055	3.3038	1.7013e+00	8.1000e+00
120	IPW000003	-1.9968	3.8532	1.7838	1.6123e+00	8.1000e+00
121	IPW000004	-2.4531	-0.9883	-1.7954	2.9146e-01	2.0001e+00
122	IPW000005	-0.3000	0.1883	-0.0708	2.4618e-01	2.0000e+00
123	IPW000006	-6.8359	-4.3945	-5.7797	7.6783e-01	2.0005e+00
124	EMPTY	-0.0293	-0.0098	-0.0207	3.9279e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.7793e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0171	3.3240e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0156	3.3026e-03	0.0000e+00
128	IHT000001	-0.2494	0.1412	-0.1617	1.0594e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1332	9.9792e-02	4.1000e+00
130	IHT000003	-0.3294	0.0613	-0.2497	1.0486e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1641	7.6412e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1126	7.9736e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	0.0066	1.1044e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0840	8.4477e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1599	7.9532e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1641	8.6187e-02	4.1000e+00
137	IHT000010	-0.3553	0.0353	-0.1122	9.3759e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1238	9.9792e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1574	1.0533e-01	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0418	9.3931e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1201	8.8965e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1443	9.8648e-02	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1439	7.5987e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	-0.0438	1.9230e-01	4.1000e+00
145	IHT000018	0.2753	0.4706	0.3590	9.7656e-02	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0201	5.9734e-02	4.1000e+00
147	IHT000020	-0.1034	0.0919	-0.0875	5.4032e-02	4.1000e+00
148	IHT000021	3.1694	3.3647	3.3408	6.4688e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1599	7.9532e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1234	7.2937e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2255	9.0949e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0671	9.5132e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0478	8.4860e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1355	9.0949e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0306	9.7656e-02	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1314	9.4620e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1153	8.9148e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1106	9.7656e-02	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0757	9.6150e-02	4.1000e+00
160	IHT000033	37.3247	37.7153	37.4044	1.0486e-01	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0555	1.0701e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1148	1.2001e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	0.0038	1.1462e-01	4.1000e+00

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Velocity 1 = 0.027300 (ft/sec)

Velocity 2 = 0.016400 (ft/sec)

Pressure Drop = 0.004400 (psi)

Tsat in = 0.019699 (deg F) Tsat out = 0.058395 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0136	0.0182
1	TRF000002	0.0028	0.0037
2	TFM000001	0.0035	0.0040
3	TIN000001	0.0161	0.0184
4	TRV000001	0.0101	0.0116
5	TSR000001	0.0025	0.0029
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0298	0.0344
8	TAO070136	0.0015	0.0017
9	TAO080136	0.0235	0.0268
10	TAO090136	0.0187	0.0214
11	TAO100136	0.0067	0.0077
12	TAO105136	0.0525	0.0597
13	EMPTY	0.0025	0.0061
14	TAO115136	0.0193	0.0221
15	EMPTY	0.0050	0.0133
16	TAO125136	0.0177	0.0202
17	TAO130136	0.0191	0.0219
18	EMPTY	0.0175	0.0424
19	TAO130048	0.0005	0.0006
20	TAO120224	0.0070	0.0080
21	EMPTY	0.0007	0.0018
22	TAO120312	0.0217	0.0248
23	TAO130312	0.0203	0.0233
24	EMPTY	0.0218	0.0555
25	TRT070000	0.0075	0.0086
26	TRT100000	0.0355	0.0404
27	TRT120000	0.0354	0.0404
28	TRT125000	0.0170	0.0194
29	EMPTY	0.0190	0.0480
30	EMPTY	0.0023	0.0058
31	TAF050136	0.0466	0.0532
32	TAF070136	0.0069	0.0078
33	TAF080136	0.0064	0.0073
34	TAF090136	0.0857	0.0974
35	TAF100136	0.0186	0.0213
36	TAF105136	0.0367	0.0419
37	TAF110136	0.0215	0.0246
38	TAF115136	0.0475	0.0541
39	TAF120136	0.0164	0.0187
40	TAF125136	0.0019	0.0022
41	TAF130136	0.0103	0.0118
42	TAF120048	0.0686	0.0780
43	TAF130048	0.0011	0.0013
44	TAF120224	0.0186	0.0212
45	TAF130224	0.0245	0.0281

#	Name	Abs Diff	%Diff
46	EMPTY	0.0565	0.1487
47	EMPTY	0.0183	0.0467
48	TAI130048	0.0270	0.0308
49	TAI130136	0.0037	0.0042
50	TAI130224	0.0160	0.0182
51	TAI130312	0.0109	0.0125
52	TRR130000	0.0504	0.0580
53	TSI000001	0.0282	0.0352
54	TSI000002	0.0350	0.0492
55	TSO000001	0.0225	0.0331
56	TSO000002	0.0439	0.0548
57	TAF020136	0.0279	0.0320
58	TAF120312	0.0435	0.0579
59	TAF130312	0.0070	0.0081
60	EMPTY	0.0005	0.1040
61	EMPTY	0.0012	0.2422
62	EMPTY	0.0003	0.0590
63	EMPTY	0.0008	0.1521
64	EMPTY	0.0002	0.0611
65	EMPTY	0.0005	0.1441
66	EMPTY	0.0008	0.2191
67	EMPTY	0.0005	0.1311
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0001	0.0241
70	EMPTY	0.0004	0.0931
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0001	0.0213
73	EMPTY	0.0001	0.0205
74	EMPTY	0.0001	0.0199
75	EMPTY	0.0004	0.0767
76	EMPTY	0.0003	0.0559
77	EMPTY	0.0008	0.1440
78	EMPTY	0.0014	0.2428
79	EMPTY	0.0003	0.0499
80	PAN020136	0.0117	0.0730
81	PAN050136	0.0157	0.0520
82	PAN070136	0.0052	0.0260
83	PAN080136	0.0139	0.1342
84	PAN090136	0.0108	0.1084
85	PAN100136	0.0137	0.1377
86	PAN105136	0.0010	0.0210
87	PAN110136	0.0031	0.0605
88	PAN115136	0.0023	0.0502
89	PAN120136	0.0176	0.3178
90	PAN125136	0.0012	0.0239
91	PAN130136	0.0015	0.0296
92	PAN120048	0.0085	0.0779
93	PAN130048	0.0023	0.0226
94	PAN120224	0.0037	0.0368
95	PAN130224	0.0228	0.2243
96	PAN120312	0.0122	0.1222
97	PAN130312	0.0261	0.2562
98	PAB000136	0.0088	0.0348
99	PAB100136	0.0081	0.0283
100	PAB125136	0.0297	0.1006

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#	Name	Abs Diff	%Diff
101	PIN0000001	0.0072	0.0288
102	PRV0000001	0.0021	0.0103
103	PSR0000001	0.0201	0.0674
104	PFM0000001	0.0337	1.3742
105	PAN000136	0.1222	0.0965
106	PFM0000002	0.0186	0.8979
107	EMPTY	0.0001	3.1250
108	EMPTY	0.0371	0.3711
109	EMPTY	0.0002	50.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW0000001	0.0077	12.1069
113	VPW0000002	0.0238	190.4000
114	VPW0000003	0.0053	20.0758
115	VPW0000004	0.0101	14.3875
116	VPW0000005	0.0250	121.3592
117	VPW0000006	0.0078	251.6129
118	IPW0000001	1.7324	126.6189
119	IPW0000002	0.6204	23.1199
120	IPW0000003	2.6886	297.1485
121	IPW0000004	0.2866	13.7656
122	IPW0000005	0.1321	215.4976
123	IPW0000006	2.2543	63.9445
124	EMPTY	0.0004	1.9704
125	EMPTY	0.0002	1.4706
126	EMPTY	0.0002	1.1561
127	EMPTY	0.0002	1.2987
128	IHT0000001	0.0017	1.0404
129	IHT0000002	0.0265	16.5936
130	IHT0000003	0.0133	5.0570
131	IHT0000004	0.0032	1.9888
132	IHT0000005	0.0112	9.0469
133	IHT0000006	0.0266	133.0000
134	IHT0000007	0.0233	21.7148
135	IHT0000008	0.0187	10.4703
136	IHT0000009	0.0242	12.8518
137	IHT0000010	0.0048	4.1026
138	IHT0000011	0.0243	24.4221
139	IHT0000012	0.0148	8.5947
140	IHT0000013	0.0052	14.2076
141	IHT0000014	0.0070	6.1892
142	IHT0000015	0.0059	4.2630
143	IHT0000016	0.0083	6.1209
144	IHT0000017	0.0165	60.4396
145	IHT0000018	0.0140	3.7534
146	IHT0000019	0.0113	128.4091
147	IHT0000020	0.0036	4.2908
148	IHT0000021	0.0161	0.4796
149	IHT0000022	0.0109	6.3817
150	IHT0000023	0.0163	11.6679
151	IHT0000024	0.0105	4.8837
152	IHT0000025	0.0259	27.8495
153	IHT0000026	0.0009	1.9190
154	IHT0000027	0.0144	11.8910
155	IHT0000028	0.0039	11.3043

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0200	13.2100
157	IHT000030	0.0078	6.3363
158	IHT000031	0.0039	3.6551
159	IHT000032	0.0063	7.6829
160	IHT000033	0.0055	0.0147
161	IHT000034	0.0144	35.0365
162	IHT000035	0.0021	1.8634
163	IHT000036	0.0321	113.4276

Velocity 1 = 2.0854 (ft/sec) (+/- 40.0317 %)
Velocity 2 = 1.3683 (ft/sec) (+/- 35.0447 %)
Pressure drop = -5.1854 (psi)
Tsat in = 239.2796 (deg F) Tsat out = 249.6068 (deg F)
Phi inner = -0.0007 (kBtu/hr-ft2) (+/- 1553.0168 %)
Phi outer = -0.0003 (kBtu/hr-ft2) (+/- 202.7961 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.3963	74.8213	74.5876	1.5026e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.2099	1.2112e-01	1.9000e+00
2	TFM0000001	86.6611	87.3944	87.0448	1.8887e-01	1.9002e+00
3	TIN0000001	86.8360	87.7812	87.2877	2.1033e-01	1.9002e+00
4	TRV0000001	86.0026	87.5715	86.7495	3.3920e-01	1.9002e+00
5	TSR0000001	86.8255	87.9755	87.3169	3.1602e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.1376	87.0795	86.6294	1.9635e-01	1.9002e+00
8	TAO070136	87.6338	88.3697	88.0272	1.7873e-01	1.9002e+00
9	TAO080136	87.3188	87.8420	87.6015	1.2724e-01	1.9002e+00
10	TAO090136	87.0881	87.9260	87.3962	1.7502e-01	1.9002e+00
11	TAO100136	87.2945	87.9235	87.6027	1.3791e-01	1.9002e+00
12	TAO105136	87.4415	88.2811	87.8969	2.0935e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0965	1.1576e-01	1.9011e+00
14	TAO115136	86.7546	87.4907	87.1355	2.0039e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5605	6.9708e-02	1.9010e+00
16	TAO125136	87.0868	87.7154	87.4534	1.4392e-01	1.9002e+00
17	TAO130136	87.0421	87.5636	87.3286	1.4093e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2845	1.2627e-01	1.9011e+00
19	TAO130048	86.9427	87.5714	87.2466	1.5291e-01	1.9002e+00
20	TAO120224	86.8520	87.4812	87.1351	1.5888e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.9076	1.4647e-01	1.9010e+00
22	TAO120312	87.0260	87.7604	87.3220	1.7435e-01	1.9002e+00
23	TAO130312	86.6110	87.4489	86.8607	1.5398e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3347	1.7164e-01	1.9010e+00
25	TRT070000	86.9230	87.5539	87.2615	1.6920e-01	1.9002e+00
26	TRT100000	87.4246	88.1574	87.8494	1.9186e-01	1.9002e+00
27	TRT120000	87.2299	87.8585	87.5587	1.6675e-01	1.9002e+00
28	TRT125000	87.2093	87.8370	87.6044	1.7049e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5735	1.0381e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6929	2.0681e-01	1.9011e+00
31	TAF050136	87.2690	88.0016	87.6060	1.7075e-01	1.9002e+00
32	TAF070136	87.7603	88.5960	88.2678	1.8621e-01	1.9002e+00
33	TAF080136	87.1631	87.8939	87.5532	1.5904e-01	1.9002e+00
34	TAF090136	87.4411	88.3841	87.9461	2.3529e-01	1.9002e+00
35	TAF100136	87.2103	87.7351	87.4140	1.4439e-01	1.9002e+00
36	TAF105136	87.1734	88.1122	87.6509	2.4570e-01	1.9002e+00
37	TAF110136	87.0669	87.6943	87.3829	1.5030e-01	1.9002e+00
38	TAF115136	87.5334	88.2668	87.9252	1.8536e-01	1.9002e+00
39	TAF120136	87.2101	87.8383	87.5722	1.4827e-01	1.9002e+00
40	TAF125136	87.4844	88.1121	87.7962	1.5001e-01	1.9002e+00
41	TAF130136	87.2848	87.9137	87.5804	1.6360e-01	1.9002e+00
42	TAF120048	87.2942	88.3483	87.9450	2.4049e-01	1.9002e+00
43	TAF130048	87.1035	87.7328	87.3531	1.3219e-01	1.9002e+00
44	TAF120224	87.3233	88.1618	87.6525	1.9636e-01	1.9002e+00
45	TAF130224	86.7429	87.3735	87.0517	1.3843e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1491	2.3960e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2383	1.1364e-01	1.9010e+00
48	TAI130048	87.2998	88.3481	87.7547	2.8855e-01	1.9002e+00
49	TAI130136	86.7180	87.6600	87.2015	1.9249e-01	1.9002e+00
50	TAI130224	87.2684	88.2137	87.7328	2.6178e-01	1.9002e+00
51	TAI130312	86.8802	87.5105	87.1724	1.6875e-01	1.9002e+00
52	TRR130000	86.5495	87.3868	87.0117	2.0296e-01	1.9002e+00
53	TSI000001	79.7239	80.3565	80.0549	1.5654e-01	1.9001e+00
54	TSI000002	70.8298	71.8908	71.2567	2.6475e-01	1.9000e+00
55	TSO000001	67.5545	68.4093	67.9967	1.8834e-01	1.9000e+00
56	TSO000002	79.8954	80.6343	80.1805	1.8123e-01	1.9001e+00
57	TAF020136	86.7707	87.7192	87.2199	2.0056e-01	1.9002e+00
58	TAF120312	74.7454	75.8042	75.2303	2.6204e-01	1.9000e+00
59	TAF130312	86.6157	87.2451	86.8990	1.8003e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4805	2.4164e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4955	2.4642e-03	0.0000e+00
62	EMPTY	0.5029	0.5127	0.5089	2.2689e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5263	2.0432e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3272	6.9053e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3468	6.9053e-04	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3656	1.6028e-03	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3817	1.8950e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
74	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5218	1.7115e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5365	1.6028e-03	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5555	2.1065e-03	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5767	1.4797e-03	0.0000e+00
79	EMPTY	0.6006	0.6006	0.6006	0.0000e+00	0.0000e+00
80	PAN020136	-18.2078	-17.9789	-18.1208	6.5413e-02	8.7118e-01
81	PAN050136	-34.2979	-33.9928	-34.1789	1.0807e-01	1.6822e+00
82	PAN070136	-22.9524	-22.7236	-22.8304	6.1655e-02	8.7187e-01
83	PAN080136	-11.7286	-11.4997	-11.6050	5.5339e-02	8.7048e-01
84	PAN090136	-11.4145	-11.1856	-11.2909	7.0449e-02	8.7046e-01
85	PAN100136	-11.4571	-11.1519	-11.3259	6.9001e-02	8.7046e-01
86	PAN105136	-5.7183	-5.4894	-5.5749	7.0026e-02	8.7011e-01
87	PAN110136	-5.9589	-5.7300	-5.8536	5.3149e-02	8.7012e-01
88	PAN115136	-5.4585	-5.1534	-5.2922	6.8396e-02	8.7010e-01
89	PAN120136	-6.2494	-6.0205	-6.1471	7.1653e-02	8.7014e-01
90	PAN125136	-5.7990	-5.5702	-5.6602	6.2970e-02	8.7012e-01
91	PAN130136	-5.7535	-5.6009	-5.6742	5.1028e-02	8.7012e-01
92	PAN120048	-12.0880	-11.9354	-12.0010	5.1145e-02	8.7052e-01
93	PAN130048	-11.5921	-11.3632	-11.4548	7.8595e-02	8.7047e-01
94	PAN120224	-11.5423	-11.3134	-11.4004	7.8610e-02	8.7047e-01
95	PAN130224	-11.4909	-11.3383	-11.3962	5.2407e-02	8.7047e-01
96	PAN120312	-11.5217	-11.2165	-11.3431	8.2445e-02	8.7046e-01
97	PAN130312	-11.5407	-11.3118	-11.3912	6.5322e-02	8.7047e-01
98	PAB000136	24.5881	24.7712	24.6842	4.1617e-02	5.8327e-01
99	PAB100136	28.4368	28.5742	28.5009	3.5818e-02	5.8436e-01
100	PAB125136	29.4870	29.6701	29.5675	3.9843e-02	5.8469e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	24.2726	24.3947	24.3410	6.1209e-02	7.5246e-01
102	PRV0000001	20.4157	20.4157	20.4157	7.7069e-06	7.5173e-01
103	PSR0000001	29.8409	29.9630	29.9288	5.5366e-02	7.5372e-01
104	PFM0000001	0.5353	0.7184	0.6269	6.1346e-02	5.0000e-01
105	PAN000136	-144.0187	-143.1032	-143.5610	9.2482e-02	4.9331e+00
106	PFM0000002	0.1507	0.3353	0.2581	4.2477e-02	2.0000e-01
107	EMPTY	-0.0049	0.0049	-0.0040	2.1364e-03	0.0000e+00
108	EMPTY	-10.0000	-9.5361	-9.9786	8.2351e-02	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0004	1.6624e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	-0.2706	0.1200	-0.0792	7.3716e-02	8.1000e-01
113	VPW0000002	-0.2000	0.1906	-0.0203	6.6498e-02	8.1000e-01
114	VPW0000003	-0.0400	0.1553	0.0498	9.8332e-02	8.1000e-01
115	VPW0000004	-0.2306	0.3553	0.0897	1.0992e-01	8.1000e-01
116	VPW0000005	-0.1200	0.0753	0.0245	8.6541e-02	8.1000e-01
117	VPW0000006	-0.2000	0.1906	-0.0555	1.1027e-01	8.1000e-01
118	IPW0000001	14.0194	17.9241	15.1518	1.0503e+00	8.1009e+00
119	IPW0000002	-16.0098	-12.1072	-14.4097	1.3478e+00	8.1008e+00
120	IPW0000003	-21.4968	-15.6468	-18.2208	1.2729e+00	8.1013e+00
121	IPW0000004	0.9648	1.9414	1.7168	2.6488e-01	2.0000e+00
122	IPW0000005	0.1883	1.6530	0.8620	3.2550e-01	2.0000e+00
123	IPW0000006	12.2070	13.6719	12.8418	3.7239e-01	2.0026e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.3613e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.6562e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0171	3.1583e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.0309e-03	0.0000e+00
128	IHT0000001	-0.2494	0.1412	-0.1869	1.0014e-01	4.1000e+00
129	IHT0000002	-0.2847	0.1059	-0.1636	1.0358e-01	4.1000e+00
130	IHT0000003	-0.5247	0.0613	-0.2747	1.0470e-01	4.1000e+00
131	IHT0000004	-0.2000	-0.0047	-0.1766	6.4113e-02	4.1000e+00
132	IHT0000005	-0.2800	-0.0847	-0.1433	9.0412e-02	4.1000e+00
133	IHT0000006	-0.1528	0.2378	-0.0044	1.0106e-01	4.1000e+00
134	IHT0000007	-0.2753	0.1153	-0.0995	7.1136e-02	4.1000e+00
135	IHT0000008	-0.3153	-0.1200	-0.1825	9.2034e-02	4.1000e+00
136	IHT0000009	-0.3953	-0.0047	-0.1727	7.9017e-02	4.1000e+00
137	IHT0000010	-0.1600	0.0353	-0.1092	8.6541e-02	4.1000e+00
138	IHT0000011	-0.2753	0.1153	-0.1112	8.2393e-02	4.1000e+00
139	IHT0000012	-0.3128	0.0778	-0.1761	1.0625e-01	4.1000e+00
140	IHT0000013	-0.1694	0.0259	-0.0327	9.0412e-02	4.1000e+00
141	IHT0000014	-0.3553	0.0353	-0.1366	7.5283e-02	4.1000e+00
142	IHT0000015	-0.2400	-0.0447	-0.1541	9.7935e-02	4.1000e+00
143	IHT0000016	-0.3153	0.0753	-0.1239	6.2265e-02	4.1000e+00
144	IHT0000017	-0.3906	0.3906	0.0469	2.3530e-01	4.1000e+00
145	IHT0000018	0.2753	0.4706	0.3925	9.6655e-02	4.1000e+00
146	IHT0000019	-0.2353	0.1553	-0.0205	7.1136e-02	4.1000e+00
147	IHT0000020	-0.2988	0.0919	-0.1112	8.7880e-02	4.1000e+00
148	IHT0000021	3.1694	3.5600	3.3373	9.6735e-02	4.1001e+00
149	IHT0000022	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
150	IHT0000023	-0.1553	0.0400	-0.1123	8.1729e-02	4.1000e+00
151	IHT0000024	-0.2853	-0.0900	-0.2306	8.8585e-02	4.1000e+00
152	IHT0000025	-0.0047	0.1906	0.0773	9.7377e-02	4.1000e+00
153	IHT0000026	-0.1953	0.1953	-0.0742	1.0358e-01	4.1000e+00
154	IHT0000027	-0.1953	0.0000	-0.1328	9.2034e-02	4.1000e+00
155	IHT0000028	-0.1647	0.2259	0.0267	9.2456e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1202	9.4125e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1153	7.8918e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0598	9.5112e-02	4.1000e+00
159	IHT000032	-0.1953	0.3906	0.0273	8.8321e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3716	8.4262e-02	4.1170e+00
161	IHT000034	-0.2753	0.1153	0.0333	1.0507e-01	4.1000e+00
162	IHT000035	-0.1881	0.2025	0.0658	9.8648e-02	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0244	7.7324e-02	4.1000e+00

Velocity 1 = 2.0614 (ft/sec) (+/- 41.0023 %)
Velocity 2 = 1.3999 (ft/sec) (+/- 33.4045 %)
Pressure drop = -5.1851 (psi)
Tsats in = 239.2457 (deg F) Tsats out = 249.5843 (deg F)
Phi inner = -0.0009 (kBtu/hr-ft2) (+/- 1234.1055 %)
Phi outer = -0.0004 (kBtu/hr-ft2) (+/- 1981.8718 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5871	1.8014e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.2198	1.1730e-01	1.9000e+00
2	TFM000001	86.7653	87.4995	87.1466	1.8850e-01	1.9002e+00
3	TIN000001	86.9414	87.7812	87.3891	1.8659e-01	1.9002e+00
4	TRV000001	86.0026	87.5715	86.9246	2.8537e-01	1.9002e+00
5	TSR000001	86.8255	87.9755	87.5208	2.3239e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.2413	87.0795	86.6501	2.0419e-01	1.9002e+00
8	TAO070136	87.6346	88.4756	88.0288	1.8398e-01	1.9002e+00
9	TAO080136	87.3183	87.9467	87.5988	1.5168e-01	1.9002e+00
10	TAO090136	86.8788	87.7169	87.3982	2.0621e-01	1.9002e+00
11	TAO100136	87.1893	87.9235	87.5876	1.7652e-01	1.9002e+00
12	TAO105136	87.2317	88.3857	87.8998	2.3231e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.0849	1.2431e-01	1.9011e+00
14	TAO115136	86.6499	87.4914	87.1626	2.3192e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5750	8.5901e-02	1.9010e+00
16	TAO125136	87.0863	87.7154	87.4523	1.5295e-01	1.9002e+00
17	TAO130136	86.9369	87.6683	87.3302	1.4695e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2813	1.0670e-01	1.9011e+00
19	TAO130048	86.9423	87.5714	87.2954	1.6800e-01	1.9002e+00
20	TAO120224	86.7467	87.4812	87.1323	1.4900e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8933	1.2622e-01	1.9010e+00
22	TAO120312	87.0259	87.7604	87.3858	1.6169e-01	1.9002e+00
23	TAO130312	86.6105	87.2399	86.9041	1.5130e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3198	1.9056e-01	1.9010e+00
25	TRT070000	86.9230	87.5539	87.2383	1.3752e-01	1.9002e+00
26	TRT100000	87.4238	88.3663	87.8773	2.1198e-01	1.9002e+00
27	TRT120000	87.1244	87.8585	87.6038	1.7783e-01	1.9002e+00
28	TRT125000	87.2093	87.9405	87.6125	1.8708e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5869	1.0305e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6993	2.2915e-01	1.9011e+00
31	TAF050136	87.2690	88.0016	87.6150	1.6449e-01	1.9002e+00
32	TAF070136	87.8634	88.5960	88.2356	1.9069e-01	1.9002e+00
33	TAF080136	87.1612	87.8939	87.5760	1.8712e-01	1.9002e+00
34	TAF090136	87.3360	88.5933	87.9244	2.7534e-01	1.9002e+00
35	TAF100136	87.0003	87.7351	87.3732	1.7412e-01	1.9002e+00
36	TAF105136	87.1716	88.3201	87.6586	2.5584e-01	1.9002e+00
37	TAF110136	86.9617	87.7994	87.3745	1.7026e-01	1.9002e+00
38	TAF115136	87.5329	88.2668	87.9353	2.1629e-01	1.9002e+00
39	TAF120136	87.1050	87.8383	87.5966	1.5881e-01	1.9002e+00
40	TAF125136	87.3792	88.1121	87.7813	1.6312e-01	1.9002e+00
41	TAF130136	87.1796	87.9137	87.5779	1.5133e-01	1.9002e+00
42	TAF120048	87.4002	88.3470	87.9583	2.0528e-01	1.9002e+00
43	TAF130048	86.9983	87.5232	87.3368	1.3597e-01	1.9002e+00
44	TAF120224	87.1138	87.9524	87.6207	2.0331e-01	1.9002e+00
45	TAF130224	86.7429	87.3735	87.0881	1.5631e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1945	2.5271e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2777	1.1482e-01	1.9010e+00
48	TAI130048	87.0895	88.2435	87.7982	3.2141e-01	1.9002e+00
49	TAI130136	86.8219	87.6600	87.2050	1.6636e-01	1.9002e+00
50	TAI130224	87.0585	88.3192	87.8002	2.7740e-01	1.9002e+00
51	TAI130312	86.7755	87.5105	87.2084	1.9712e-01	1.9002e+00
52	TRR130000	86.5488	87.3868	86.9870	2.3468e-01	1.9002e+00
53	TSI000001	79.6180	80.3565	80.0144	1.7161e-01	1.9001e+00
54	TSI000002	70.6172	71.5733	71.1983	2.3546e-01	1.9000e+00
55	TSO000001	67.5540	68.4093	68.0014	2.0323e-01	1.9000e+00
56	TSO000002	79.7901	80.6343	80.1970	1.9632e-01	1.9001e+00
57	TAF020136	86.7720	87.5094	87.2010	1.9325e-01	1.9002e+00
58	TAF120312	74.7454	75.5926	75.1797	2.3409e-01	1.9000e+00
59	TAF130312	86.4062	87.3498	86.9475	2.1013e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4810	2.4662e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4955	2.4621e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5088	1.9883e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5253	2.4414e-03	0.0000e+00
64	EMPTY	0.3271	0.3271	0.3271	0.0000e+00	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3469	9.7615e-04	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3647	2.2737e-03	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3810	6.9754e-04	0.0000e+00
68	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
69	EMPTY	0.4102	0.4199	0.4150	9.9670e-04	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4298	6.9754e-04	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4540	6.9754e-04	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4684	1.3508e-03	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4880	1.1827e-03	0.0000e+00
74	EMPTY	0.4980	0.5029	0.5028	6.9754e-04	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5196	2.4247e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5348	2.4621e-03	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5533	2.2737e-03	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5763	6.9754e-04	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6008	9.7615e-04	0.0000e+00
80	PAN020136	-18.2078	-17.9789	-18.1143	5.8820e-02	8.7118e-01
81	PAN050136	-34.2979	-33.9928	-34.1858	1.1560e-01	1.6822e+00
82	PAN070136	-22.9524	-22.7236	-22.8341	6.0439e-02	8.7187e-01
83	PAN080136	-11.5760	-11.3471	-11.5075	5.2223e-02	8.7048e-01
84	PAN090136	-11.4145	-11.1856	-11.2853	7.0001e-02	8.7046e-01
85	PAN100136	-11.4571	-11.1519	-11.3154	6.4211e-02	8.7046e-01
86	PAN105136	-5.7183	-5.4131	-5.5719	7.4422e-02	8.7011e-01
87	PAN110136	-6.0352	-5.7300	-5.8390	6.7883e-02	8.7012e-01
88	PAN115136	-5.4585	-5.1534	-5.2951	6.6072e-02	8.7010e-01
89	PAN120136	-6.2494	-6.0205	-6.1232	8.1744e-02	8.7013e-01
90	PAN125136	-5.7990	-5.5702	-5.6542	6.0806e-02	8.7011e-01
91	PAN130136	-5.7535	-5.6009	-5.6772	4.9248e-02	8.7012e-01
92	PAN120048	-12.0880	-11.9354	-11.9977	4.8437e-02	8.7052e-01
93	PAN130048	-11.5921	-11.3632	-11.4722	8.0922e-02	8.7047e-01
94	PAN120224	-11.5423	-11.3134	-11.4099	7.7517e-02	8.7047e-01
95	PAN130224	-11.4909	-11.3383	-11.3974	5.2270e-02	8.7047e-01
96	PAN120312	-11.5217	-11.2165	-11.3473	7.6294e-02	8.7046e-01
97	PAN130312	-11.5407	-11.3118	-11.4084	6.3786e-02	8.7047e-01
98	PAB000136	24.5881	24.7254	24.6693	4.3089e-02	5.8327e-01
99	PAB100136	28.4368	28.5742	28.4808	3.7329e-02	5.8435e-01
100	PAB125136	29.4412	29.6243	29.5561	4.2945e-02	5.8469e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	24.2726	24.3947	24.3199	6.0094e-02	7.5246e-01
102	PRV0000001	20.2936	20.5377	20.4157	2.4917e-02	7.5173e-01
103	PSR0000001	29.8409	29.9630	29.9032	6.1655e-02	7.5372e-01
104	PFM0000001	0.5353	0.7184	0.6119	6.5667e-02	5.0000e-01
105	PAN000136	-143.5610	-143.1032	-143.5517	6.5395e-02	4.9331e+00
106	PFM0000002	0.1507	0.3688	0.2709	4.3910e-02	2.0000e-01
107	EMPTY	-0.0049	0.0049	-0.0039	2.2241e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4873	-9.9762	9.7466e-02	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0006	1.8997e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW0000001	-0.2706	0.1200	-0.0753	6.9053e-02	8.1000e-01
113	VPW0000002	-0.2000	0.1906	0.0073	9.2715e-02	8.1000e-01
114	VPW0000003	-0.0400	0.3506	0.0636	1.0625e-01	8.1000e-01
115	VPW0000004	-0.0353	0.3553	0.0803	1.1219e-01	8.1000e-01
116	VPW0000005	-0.1200	0.2706	0.0275	1.0188e-01	8.1000e-01
117	VPW0000006	-0.2000	0.1906	-0.0685	1.0836e-01	8.1000e-01
118	IPW0000001	14.0194	17.9241	15.6131	1.1737e+00	8.1009e+00
119	IPW0000002	-17.9610	-10.1560	-14.2576	1.3938e+00	8.1008e+00
120	IPW0000003	-19.5468	-15.6468	-17.8754	1.0531e+00	8.1012e+00
121	IPW0000004	0.9648	2.4297	1.7919	3.1838e-01	2.0001e+00
122	IPW0000005	0.1883	1.6530	0.9057	3.0067e-01	2.0000e+00
123	IPW0000006	12.2070	13.6719	12.9245	4.3562e-01	2.0026e+00
124	EMPTY	-0.0293	-0.0098	-0.0199	4.2094e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.8191e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0172	3.3210e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0151	3.8916e-03	0.0000e+00
128	IHT0000001	-0.4447	-0.0541	-0.1816	1.0955e-01	4.1000e+00
129	IHT0000002	-0.2847	0.1059	-0.1452	9.7656e-02	4.1000e+00
130	IHT0000003	-0.3294	-0.1341	-0.2656	9.2540e-02	4.1000e+00
131	IHT0000004	-0.2000	-0.0047	-0.1482	8.7123e-02	4.1000e+00
132	IHT0000005	-0.2800	0.1106	-0.1325	1.0941e-01	4.1000e+00
133	IHT0000006	-0.1528	0.2378	-0.0013	1.0746e-01	4.1000e+00
134	IHT0000007	-0.2753	0.1153	-0.1159	8.6187e-02	4.1000e+00
135	IHT0000008	-0.3153	-0.1200	-0.1718	8.7123e-02	4.1000e+00
136	IHT0000009	-0.3953	-0.0047	-0.1801	7.1817e-02	4.1000e+00
137	IHT0000010	-0.1600	0.0353	-0.1042	8.9148e-02	4.1000e+00
138	IHT0000011	-0.2753	0.1153	-0.1119	8.3122e-02	4.1000e+00
139	IHT0000012	-0.3128	0.0778	-0.1853	1.0204e-01	4.1000e+00
140	IHT0000013	-0.1694	0.2212	-0.0418	1.0204e-01	4.1000e+00
141	IHT0000014	-0.3553	0.0353	-0.1241	8.6187e-02	4.1000e+00
142	IHT0000015	-0.2400	-0.0447	-0.1284	9.7656e-02	4.1000e+00
143	IHT0000016	-0.3153	-0.1200	-0.1399	5.9734e-02	4.1000e+00
144	IHT0000017	-0.3906	0.3906	-0.0040	2.0519e-01	4.1000e+00
145	IHT0000018	0.0800	0.6659	0.3829	1.1319e-01	4.1000e+00
146	IHT0000019	-0.2353	0.1553	-0.0320	6.8582e-02	4.1000e+00
147	IHT0000020	-0.2988	0.0919	-0.1274	8.5810e-02	4.1000e+00
148	IHT0000021	3.1694	3.5600	3.3368	7.9736e-02	4.1001e+00
149	IHT0000022	-0.3153	0.0753	-0.1798	9.9303e-02	4.1000e+00
150	IHT0000023	-0.3506	0.0400	-0.1155	8.8965e-02	4.1000e+00
151	IHT0000024	-0.2853	-0.0900	-0.2375	8.4860e-02	4.1000e+00
152	IHT0000025	-0.0047	0.3859	0.0790	1.0548e-01	4.1000e+00
153	IHT0000026	-0.1953	0.0000	-0.0558	8.9148e-02	4.1000e+00
154	IHT0000027	-0.1953	0.0000	-0.1116	9.7656e-02	4.1000e+00
155	IHT0000028	-0.1647	0.2259	0.0027	1.1960e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1234	9.2189e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1273	6.1868e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1066	1.0911e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0558	8.9148e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.4004	9.6150e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0157	1.0640e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1029	1.0640e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0161	7.5986e-02	4.1000e+00

Velocity 1 = 0.024000 (ft/sec)
 Velocity 2 = 0.031600 (ft/sec)
 Pressure Drop = 0.000300 (psi)
 Tsat in = 0.033905 (deg F) Tsat out = 0.022491 (deg F)
 Phi inner = 0.000200 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0005	0.0007
1	TRF000002	0.0099	0.0132
2	TFM000001	0.1018	0.1170
3	TIN000001	0.1014	0.1162
4	TRV000001	0.1751	0.2018
5	TSR000001	0.2039	0.2335
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0207	0.0239
8	TAO070136	0.0016	0.0018
9	TAO080136	0.0027	0.0031
10	TAO090136	0.0020	0.0023
11	TAO100136	0.0151	0.0172
12	TAO105136	0.0029	0.0033
13	EMPTY	0.0116	0.0282
14	TAO115136	0.0271	0.0311
15	EMPTY	0.0145	0.0386
16	TAO125136	0.0011	0.0013
17	TAO130136	0.0016	0.0018
18	EMPTY	0.0032	0.0078
19	TAO130048	0.0488	0.0559
20	TAO120224	0.0028	0.0032
21	EMPTY	0.0143	0.0368
22	TAO120312	0.0638	0.0731
23	TAO130312	0.0434	0.0500
24	EMPTY	0.0149	0.0379
25	TRT070000	0.0232	0.0266
26	TRT100000	0.0279	0.0318
27	TRT120000	0.0451	0.0515
28	TRT125000	0.0081	0.0092
29	EMPTY	0.0134	0.0339
30	EMPTY	0.0064	0.0161
31	TAF050136	0.0090	0.0103
32	TAF070136	0.0322	0.0365
33	TAF080136	0.0228	0.0260
34	TAF090136	0.0217	0.0247
35	TAF100136	0.0408	0.0467
36	TAF105136	0.0077	0.0088
37	TAF110136	0.0084	0.0096
38	TAF115136	0.0101	0.0115
39	TAF120136	0.0244	0.0279
40	TAF125136	0.0149	0.0170
41	TAF130136	0.0025	0.0028
42	TAF120048	0.0133	0.0151
43	TAF130048	0.0163	0.0187
44	TAF120224	0.0318	0.0363
45	TAF130224	0.0364	0.0418

#	Name	Abs Diff	%Diff
46	EMPTY	0.0454	0.1190
47	EMPTY	0.0394	0.1004
48	TAI130048	0.0435	0.0496
49	TAI130136	0.0035	0.0040
50	TAI130224	0.0674	0.0768
51	TAI130312	0.0360	0.0413
52	TRR130000	0.0247	0.0284
53	TSI000001	0.0405	0.0506
54	TSI000002	0.0584	0.0820
55	TSO000001	0.0047	0.0069
56	TSO000002	0.0165	0.0206
57	TAF020136	0.0189	0.0217
58	TAF120312	0.0506	0.0673
59	TAF130312	0.0485	0.0558
60	EMPTY	0.0005	0.1041
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0001	0.0196
63	EMPTY	0.0010	0.1900
64	EMPTY	0.0001	0.0306
65	EMPTY	0.0001	0.0288
66	EMPTY	0.0009	0.2462
67	EMPTY	0.0007	0.1834
68	EMPTY	0.0001	0.0253
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0001	0.0233
71	EMPTY	0.0001	0.0220
72	EMPTY	0.0004	0.0853
73	EMPTY	0.0003	0.0614
74	EMPTY	0.0001	0.0199
75	EMPTY	0.0022	0.4216
76	EMPTY	0.0017	0.3169
77	EMPTY	0.0022	0.3960
78	EMPTY	0.0004	0.0694
79	EMPTY	0.0002	0.0333
80	PAN020136	0.0065	0.0359
81	PAN050136	0.0069	0.0202
82	PAN070136	0.0037	0.0162
83	PAN080136	0.0975	0.8402
84	PAN090136	0.0056	0.0496
85	PAN100136	0.0105	0.0927
86	PAN105136	0.0030	0.0538
87	PAN110136	0.0146	0.2494
88	PAN115136	0.0029	0.0548
89	PAN120136	0.0239	0.3888
90	PAN125136	0.0060	0.1060
91	PAN130136	0.0030	0.0529
92	PAN120048	0.0033	0.0275
93	PAN130048	0.0174	0.1519
94	PAN120224	0.0095	0.0833
95	PAN130224	0.0012	0.0105
96	PAN120312	0.0042	0.0370
97	PAN130312	0.0172	0.1510
98	PAB000136	0.0149	0.0604
99	PAB100136	0.0201	0.0705
100	PAB125136	0.0114	0.0386

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0211	0.0867
102	PRV000001	0.0000	0.0000
103	PSR000001	0.0256	0.0855
104	PFM000001	0.0150	2.3927
105	PAN000136	0.0093	0.0065
106	PFM000002	0.0128	4.9593
107	EMPTY	0.0001	2.5000
108	EMPTY	0.0024	0.0240
109	EMPTY	0.0002	50.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0039	4.9242
113	VPW000002	0.0276	135.9606
114	VPW000003	0.0138	27.7108
115	VPW000004	0.0094	10.4794
116	VPW000005	0.0030	12.2449
117	VPW000006	0.0130	23.4234
118	IPW000001	0.4613	3.0445
119	IPW000002	0.1521	1.0555
120	IPW000003	0.3454	1.8956
121	IPW000004	0.0751	4.3744
122	IPW000005	0.0437	5.0696
123	IPW000006	0.0827	0.6440
124	EMPTY	0.0013	6.1321
125	EMPTY	0.0002	1.4084
126	EMPTY	0.0001	0.5848
127	EMPTY	0.0011	6.7901
128	IHT000001	0.0053	2.8357
129	IHT000002	0.0184	11.2469
130	IHT000003	0.0091	3.3127
131	IHT000004	0.0284	16.0815
132	IHT000005	0.0108	7.5366
133	IHT000006	0.0031	70.4545
134	IHT000007	0.0164	16.4824
135	IHT000008	0.0107	5.8630
136	IHT000009	0.0074	4.2849
137	IHT000010	0.0050	4.5788
138	IHT000011	0.0007	0.6295
139	IHT000012	0.0092	5.2243
140	IHT000013	0.0091	27.8288
141	IHT000014	0.0125	9.1508
142	IHT000015	0.0257	16.6775
143	IHT000016	0.0160	12.9136
144	IHT000017	0.0509	108.5288
145	IHT000018	0.0096	2.4459
146	IHT000019	0.0115	56.0976
147	IHT000020	0.0162	14.5683
148	IHT000021	0.0005	0.0150
149	IHT000022	0.0051	2.9193
150	IHT000023	0.0032	2.8495
151	IHT000024	0.0069	2.9922
152	IHT000025	0.0017	2.1992
153	IHT000026	0.0184	24.7978
154	IHT000027	0.0212	15.9639
155	IHT000028	0.0240	89.8876

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0032	2.6622
157	IHT000030	0.0120	10.4076
158	IHT000031	0.0468	78.2609
159	IHT000032	0.0285	104.3956
160	IHT000033	0.0288	0.0771
161	IHT000034	0.0176	52.8529
162	IHT000035	0.0371	56.3830
163	IHT000036	0.0083	34.0164

Velocity 1 = 11.0529 (ft/sec) (+/- 3.7142 %)
 Velocity 2 = 10.9431 (ft/sec) (+/- 3.5048 %)
 Pressure drop = -0.0068 (psi)
 Tsat in = 251.3854 (deg F) Tsat out = 251.1649 (deg F)
 Phi inner = -0.0004 (kBtu/hr-ft2) (+/- 2129.3435 %)
 Phi outer = -0.0003 (kBtu/hr-ft2) (+/- 1807.5702 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.3963	75.0338	74.5833	1.9026e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.2100	1.1333e-01	1.9000e+00
2	TFM0000001	86.5565	87.1856	86.9087	1.7303e-01	1.9002e+00
3	TIN0000001	86.9411	87.5712	87.2142	1.4853e-01	1.9002e+00
4	TRV0000001	86.6297	87.3626	87.0483	1.9253e-01	1.9002e+00
5	TSR0000001	87.2431	87.9755	87.5863	1.4660e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.1376	87.0795	86.5103	2.0306e-01	1.9002e+00
8	TAO070136	87.4232	88.3697	87.8651	2.2486e-01	1.9002e+00
9	TAO080136	87.1104	87.8435	87.4702	1.6669e-01	1.9002e+00
10	TAO090136	86.9835	87.6129	87.2644	1.8383e-01	1.9002e+00
11	TAO100136	87.1896	87.9235	87.4833	1.7601e-01	1.9002e+00
12	TAO105136	87.4415	88.2811	87.8109	2.0467e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1240	1.3805e-01	1.9011e+00
14	TAO115136	86.6487	87.4907	87.0154	2.2216e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5650	7.5509e-02	1.9010e+00
16	TAO125136	86.8776	87.7154	87.3133	1.7115e-01	1.9002e+00
17	TAO130136	86.9402	87.5669	87.2645	1.4239e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2707	1.0152e-01	1.9011e+00
19	TAO130048	87.0474	87.6765	87.2988	1.7581e-01	1.9002e+00
20	TAO120224	86.7471	87.3769	87.0366	1.3505e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8984	1.0211e-01	1.9010e+00
22	TAO120312	87.0260	87.5508	87.2276	1.5121e-01	1.9002e+00
23	TAO130312	86.7157	87.2399	86.8962	1.5998e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.2888	2.0689e-01	1.9010e+00
25	TRT070000	86.8165	87.4479	87.1369	1.3088e-01	1.9002e+00
26	TRT100000	87.2155	88.1574	87.7763	1.8772e-01	1.9002e+00
27	TRT120000	87.1248	87.8585	87.4854	1.8120e-01	1.9002e+00
28	TRT125000	87.1057	87.9421	87.4899	2.0068e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5781	9.9904e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7204	2.0867e-01	1.9011e+00
31	TAF050136	87.0602	87.8979	87.4619	1.6442e-01	1.9002e+00
32	TAF070136	87.6567	88.5960	88.0741	2.0338e-01	1.9002e+00
33	TAF080136	87.0584	87.6860	87.4014	1.5669e-01	1.9002e+00
34	TAF090136	87.2317	88.4891	87.8016	2.7034e-01	1.9002e+00
35	TAF100136	87.0003	87.5253	87.2314	1.4386e-01	1.9002e+00
36	TAF105136	86.9654	87.9043	87.4825	2.1663e-01	1.9002e+00
37	TAF110136	86.9622	87.6947	87.2597	1.6159e-01	1.9002e+00
38	TAF115136	87.3241	88.1627	87.8268	1.9276e-01	1.9002e+00
39	TAF120136	87.1062	87.7349	87.4325	1.2653e-01	1.9002e+00
40	TAF125136	87.3808	88.0090	87.6525	1.4647e-01	1.9002e+00
41	TAF130136	87.0754	87.7044	87.4903	1.1985e-01	1.9002e+00
42	TAF120048	87.3988	88.2424	87.7740	2.4285e-01	1.9002e+00
43	TAF130048	86.9985	87.5232	87.2587	1.3938e-01	1.9002e+00
44	TAF120224	87.2185	88.0572	87.5163	1.8872e-01	1.9002e+00
45	TAF130224	86.7429	87.2678	86.9695	1.1884e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0664	2.0904e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1327	9.7440e-02	1.9010e+00
48	TAI130048	86.9854	88.1385	87.5975	2.7811e-01	1.9002e+00
49	TAI130136	86.5090	87.4511	87.0406	2.2364e-01	1.9002e+00
50	TAI130224	87.1628	88.1091	87.6634	2.6647e-01	1.9002e+00
51	TAI130312	86.7755	87.5105	87.0611	1.8012e-01	1.9002e+00
52	TRR130000	86.4443	87.2817	86.8214	2.2091e-01	1.9002e+00
53	TSI000001	79.8292	80.3565	80.0107	1.2969e-01	1.9001e+00
54	TSI000002	70.6176	71.5733	71.1315	2.5313e-01	1.9000e+00
55	TSO000001	67.5545	68.5161	67.9560	2.2098e-01	1.9000e+00
56	TSO000002	79.8954	80.7400	80.3177	1.9663e-01	1.9001e+00
57	TAF020136	86.6647	87.2983	87.0193	1.6997e-01	1.9002e+00
58	TAF120312	74.5334	75.5926	75.1477	2.5586e-01	1.9000e+00
59	TAF130312	86.5110	87.2451	86.8173	1.5554e-01	1.9002e+00
60	EMPTY	0.4736	0.4834	0.4782	2.0716e-03	0.0000e+00
61	EMPTY	0.4883	0.4980	0.4932	1.3951e-03	0.0000e+00
62	EMPTY	0.5029	0.5078	0.5072	1.6028e-03	0.0000e+00
63	EMPTY	0.5176	0.5273	0.5227	1.3811e-03	0.0000e+00
64	EMPTY	0.3223	0.3320	0.3273	1.3811e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3479	2.1065e-03	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3660	9.6655e-04	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3836	2.4484e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3958	1.1714e-03	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4303	1.6028e-03	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4543	9.6655e-04	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4882	6.9053e-04	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5224	6.9053e-04	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5565	6.9053e-04	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5796	2.2603e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6017	2.0432e-03	0.0000e+00
80	PAN020136	-0.9653	-0.3550	-0.6571	1.7092e-01	8.7000e-01
81	PAN050136	-0.7286	-0.1182	-0.4509	1.4684e-01	1.6800e+00
82	PAN070136	0.9276	1.2327	1.0893	8.5320e-02	8.7000e-01
83	PAN080136	-0.9711	-0.6660	-0.8170	7.9332e-02	8.7000e-01
84	PAN090136	-0.7334	-0.4282	-0.5884	8.4775e-02	8.7000e-01
85	PAN100136	-0.0893	0.1396	0.0190	7.5653e-02	8.7000e-01
86	PAN105136	1.3770	1.6822	1.5220	7.1054e-02	8.7001e-01
87	PAN110136	0.4498	0.7550	0.5719	7.7069e-02	8.7000e-01
88	PAN115136	0.4924	0.7213	0.5992	7.0634e-02	8.7000e-01
89	PAN120136	-1.1377	-0.9088	-0.9851	6.1655e-02	8.7000e-01
90	PAN125136	-0.5348	-0.3822	-0.4279	5.5575e-02	8.7000e-01
91	PAN130136	-0.7944	-0.4892	-0.6800	6.5847e-02	8.7000e-01
92	PAN120048	-1.1779	-0.8728	-1.0559	7.5511e-02	8.7000e-01
93	PAN130048	-1.0636	-0.7584	-0.9054	7.1321e-02	8.7000e-01
94	PAN120224	-0.2508	-0.0219	-0.1516	7.2706e-02	8.7000e-01
95	PAN130224	-1.1149	-0.8097	-0.9455	8.3419e-02	8.7000e-01
96	PAN120312	-0.2302	0.1513	-0.0440	8.6041e-02	8.7000e-01
97	PAN130312	-1.3173	-1.0884	-1.1708	6.5104e-02	8.7000e-01
98	PAB000136	30.4017	30.5848	30.4877	4.5907e-02	5.8499e-01
99	PAB100136	30.3137	30.4510	30.3759	3.3036e-02	5.8495e-01
100	PAB125136	30.3110	30.4483	30.3723	3.5350e-02	5.8495e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	30.1320	30.2541	30.1442	3.6993e-02	7.5378e-01
102	PRV0000001	20.2936	20.4157	20.3644	6.0861e-02	7.5173e-01
103	PSR0000001	29.8409	30.0851	29.9630	2.4662e-02	7.5373e-01
104	PFM0000001	18.6628	19.2121	18.9118	1.4212e-01	5.0223e-01
105	PAN000136	-1.1965	0.6346	-0.1894	4.8055e-01	4.9200e+00
106	PFM0000002	17.6856	19.2293	18.5350	3.0120e-01	2.0530e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-9.2383	-9.9116	1.9697e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0024	2.4662e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	-0.2706	0.1200	-0.0636	7.2866e-02	8.1000e-01
113	VPW0000002	-0.2000	0.1906	0.0031	8.7880e-02	8.1000e-01
114	VPW0000003	-0.2353	0.1553	0.0186	9.8648e-02	8.1000e-01
115	VPW0000004	-0.0353	0.3553	0.0741	1.0559e-01	8.1000e-01
116	VPW0000005	-0.1200	0.0753	-0.0380	9.7377e-02	8.1000e-01
117	VPW0000006	-0.2000	0.1906	-0.0672	1.2124e-01	8.1000e-01
118	IPW0000001	8.1624	15.9717	11.5985	1.5559e+00	8.1005e+00
119	IPW0000002	-10.1560	-2.3509	-5.6290	1.4980e+00	8.1001e+00
120	IPW0000003	-17.5968	-11.7468	-14.8668	1.2458e+00	8.1009e+00
121	IPW0000004	-1.4766	-0.0117	-0.7930	3.4173e-01	2.0000e+00
122	IPW0000005	0.1883	1.1647	0.6374	2.9327e-01	2.0000e+00
123	IPW0000006	8.3008	11.2305	9.9219	6.8658e-01	2.0015e+00
124	EMPTY	-0.0293	-0.0098	-0.0207	4.0144e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	3.2733e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0176	3.2718e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	3.4961e-03	0.0000e+00
128	IHT0000001	-0.4447	0.1412	-0.1634	1.1272e-01	4.1000e+00
129	IHT0000002	-0.2847	0.1059	-0.1050	1.1049e-01	4.1000e+00
130	IHT0000003	-0.3294	-0.1341	-0.2434	9.7935e-02	4.1000e+00
131	IHT0000004	-0.2000	0.1906	-0.1570	9.0756e-02	4.1000e+00
132	IHT0000005	-0.2800	0.1106	-0.0925	9.6332e-02	4.1000e+00
133	IHT0000006	-0.1528	0.2378	-0.0005	1.0654e-01	4.1000e+00
134	IHT0000007	-0.2753	0.1153	-0.0956	7.7324e-02	4.1000e+00
135	IHT0000008	-0.3153	-0.1200	-0.1708	8.6541e-02	4.1000e+00
136	IHT0000009	-0.3953	-0.0047	-0.1727	7.9017e-02	4.1000e+00
137	IHT0000010	-0.3553	0.0353	-0.1170	9.0756e-02	4.1000e+00
138	IHT0000011	-0.2753	0.1153	-0.1191	8.8233e-02	4.1000e+00
139	IHT0000012	-0.3128	0.0778	-0.1487	1.1409e-01	4.1000e+00
140	IHT0000013	-0.1694	0.2212	-0.0366	1.0763e-01	4.1000e+00
141	IHT0000014	-0.3553	0.2306	-0.1131	1.2200e-01	4.1000e+00
142	IHT0000015	-0.2400	0.1506	-0.1150	1.0992e-01	4.1000e+00
143	IHT0000016	-0.3153	0.0753	-0.1317	8.2864e-02	4.1000e+00
144	IHT0000017	-0.3906	0.5859	0.0117	2.2808e-01	4.1000e+00
145	IHT0000018	0.2753	0.6659	0.4120	1.0625e-01	4.1000e+00
146	IHT0000019	-0.2353	0.1553	-0.0244	6.6498e-02	4.1000e+00
147	IHT0000020	-0.2988	0.0919	-0.1034	8.8233e-02	4.1000e+00
148	IHT0000021	3.1694	3.5600	3.3334	8.2393e-02	4.1001e+00
149	IHT0000022	-0.3153	-0.1200	-0.1981	9.6655e-02	4.1000e+00
150	IHT0000023	-0.3506	0.0400	-0.1123	9.0756e-02	4.1000e+00
151	IHT0000024	-0.2853	-0.0900	-0.2306	8.8585e-02	4.1000e+00
152	IHT0000025	-0.0047	0.1906	0.0852	9.8332e-02	4.1000e+00
153	IHT0000026	-0.1953	0.1953	-0.0469	1.0106e-01	4.1000e+00
154	IHT0000027	-0.1953	0.0000	-0.1328	9.2034e-02	4.1000e+00
155	IHT0000028	-0.1647	0.2259	0.0228	8.7880e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1436	7.2866e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1231	6.7888e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0950	1.1049e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0664	9.3461e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3872	9.2034e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0645	9.5112e-02	4.1000e+00
162	IHT000035	0.0072	0.3978	0.0931	1.1272e-01	4.1000e+00
163	IHT000036	-0.0400	0.1553	0.0186	9.0412e-02	4.1000e+00

Velocity 1 = 11.0490 (ft/sec) (+/- 3.7146 %)
Velocity 2 = 10.9484 (ft/sec) (+/- 3.5048 %)
Pressure drop = -0.0054 (psi)
Tsats in = 251.3834 (deg F) Tsats out = 251.1405 (deg F)
Phi inner = -0.0005 (kBtu/hr-ft2) (+/- 1808.0952 %)
Phi outer = -0.0003 (kBtu/hr-ft2) (+/- 528.7048 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3963	74.8213	74.5785	1.6230e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.2413	1.1418e-01	1.9000e+00
2	TFM000001	86.5565	87.3949	86.9479	1.9800e-01	1.9002e+00
3	TIN000001	86.9407	87.5712	87.2754	1.4955e-01	1.9002e+00
4	TRV000001	86.6297	87.4663	87.0888	1.8589e-01	1.9002e+00
5	TSR000001	87.2431	87.8709	87.5869	1.5249e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.1376	87.0795	86.5371	1.9885e-01	1.9002e+00
8	TAO070136	87.6330	88.3697	87.9234	1.7897e-01	1.9002e+00
9	TAO080136	87.2151	87.7384	87.4946	1.5148e-01	1.9002e+00
10	TAO090136	86.9835	87.6123	87.2808	1.7674e-01	1.9002e+00
11	TAO100136	87.1896	87.8189	87.5128	1.4334e-01	1.9002e+00
12	TAO105136	87.2317	88.1760	87.7392	2.0579e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0755	1.1381e-01	1.9011e+00
14	TAO115136	86.6492	87.4907	87.0444	1.8165e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5656	7.6185e-02	1.9010e+00
16	TAO125136	86.9824	87.7154	87.3563	1.4342e-01	1.9002e+00
17	TAO130136	86.9407	87.6683	87.2818	1.4875e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2813	1.0670e-01	1.9011e+00
19	TAO130048	87.0474	87.5714	87.3104	1.4985e-01	1.9002e+00
20	TAO120224	86.7471	87.3765	87.0318	1.5587e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8511	1.3264e-01	1.9010e+00
22	TAO120312	86.8162	87.5508	87.2424	1.5655e-01	1.9002e+00
23	TAO130312	86.7157	87.2399	86.9105	1.4030e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3339	1.7954e-01	1.9010e+00
25	TRT070000	86.8165	87.4488	87.1412	1.3044e-01	1.9002e+00
26	TRT100000	87.4246	88.1574	87.7557	1.7916e-01	1.9002e+00
27	TRT120000	87.2299	87.8585	87.5162	1.4157e-01	1.9002e+00
28	TRT125000	87.1057	87.8370	87.5382	1.7950e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6057	8.1159e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7743	2.0834e-01	1.9011e+00
31	TAF050136	87.1648	87.7928	87.4552	1.6028e-01	1.9002e+00
32	TAF070136	87.6567	88.5960	88.1146	2.0185e-01	1.9002e+00
33	TAF080136	87.1631	87.6860	87.4424	1.4532e-01	1.9002e+00
34	TAF090136	87.4411	88.2790	87.8154	2.2526e-01	1.9002e+00
35	TAF100136	87.0003	87.7351	87.2724	1.7264e-01	1.9002e+00
36	TAF105136	86.9654	87.9043	87.4740	2.5411e-01	1.9002e+00
37	TAF110136	87.0669	87.5907	87.2786	1.4729e-01	1.9002e+00
38	TAF115136	87.5334	88.2668	87.8093	1.7853e-01	1.9002e+00
39	TAF120136	87.3148	87.6298	87.4498	1.0277e-01	1.9002e+00
40	TAF125136	87.3808	87.9039	87.6730	1.2808e-01	1.9002e+00
41	TAF130136	87.1801	87.7044	87.5116	1.2550e-01	1.9002e+00
42	TAF120048	87.3975	88.2424	87.8354	2.1415e-01	1.9002e+00
43	TAF130048	86.9985	87.5232	87.2875	1.3804e-01	1.9002e+00
44	TAF120224	87.2185	87.7430	87.5245	1.4003e-01	1.9002e+00
45	TAF130224	86.8476	87.1627	86.9826	1.0281e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.0912	2.2951e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2121	1.0481e-01	1.9010e+00
48	TAI130048	87.0900	88.3481	87.6933	2.8834e-01	1.9002e+00
49	TAI130136	86.7180	87.4511	87.1090	1.9316e-01	1.9002e+00
50	TAI130224	87.1628	88.1087	87.6950	2.7253e-01	1.9002e+00
51	TAI130312	86.5654	87.5105	87.1333	2.1745e-01	1.9002e+00
52	TRR130000	86.4443	87.2817	86.8440	2.1655e-01	1.9002e+00
53	TSI000001	79.8292	80.4617	80.0638	1.5557e-01	1.9001e+00
54	TSI000002	70.7237	71.6793	71.1615	2.2786e-01	1.9000e+00
55	TSO000001	67.6608	68.4093	67.9904	1.7848e-01	1.9000e+00
56	TSO000002	79.8954	80.7400	80.3456	2.0409e-01	1.9001e+00
57	TAF020136	86.7694	87.4034	87.0739	1.7827e-01	1.9002e+00
58	TAF120312	74.7449	75.8042	75.1472	2.4258e-01	1.9000e+00
59	TAF130312	86.5110	87.2451	86.8128	1.9459e-01	1.9002e+00
60	EMPTY	0.4736	0.4834	0.4781	1.6787e-03	0.0000e+00
61	EMPTY	0.4883	0.4932	0.4931	6.9754e-04	0.0000e+00
62	EMPTY	0.5029	0.5078	0.5070	1.8234e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5226	6.9754e-04	0.0000e+00
64	EMPTY	0.3223	0.3320	0.3275	1.6787e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3489	2.4538e-03	0.0000e+00
66	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3842	2.2737e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3964	1.9103e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4151	6.9754e-04	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4302	1.4934e-03	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4542	6.9754e-04	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4687	6.9754e-04	0.0000e+00
73	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5030	6.9754e-04	0.0000e+00
75	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
76	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5564	9.7615e-04	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5781	2.4037e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6009	1.1827e-03	0.0000e+00
80	PAN020136	-1.0416	0.0265	-0.6602	2.1410e-01	8.7000e-01
81	PAN050136	-0.7286	-0.1182	-0.4670	1.3929e-01	1.6800e+00
82	PAN070136	0.8513	1.2327	1.0770	9.8445e-02	8.7000e-01
83	PAN080136	-0.9711	-0.6660	-0.8154	7.6229e-02	8.7000e-01
84	PAN090136	-0.7334	-0.4282	-0.5964	7.9378e-02	8.7000e-01
85	PAN100136	-0.0893	0.2159	0.0212	7.7962e-02	8.7000e-01
86	PAN105136	1.3770	1.6822	1.5234	7.2774e-02	8.7001e-01
87	PAN110136	0.4498	0.6787	0.5635	6.9859e-02	8.7000e-01
88	PAN115136	0.4161	0.7213	0.6029	7.9503e-02	8.7000e-01
89	PAN120136	-1.1377	-0.9088	-0.9882	5.6063e-02	8.7000e-01
90	PAN125136	-0.6110	-0.3822	-0.4818	8.4160e-02	8.7000e-01
91	PAN130136	-0.8707	-0.4892	-0.6792	7.3249e-02	8.7000e-01
92	PAN120048	-1.2542	-0.8728	-1.0456	6.5659e-02	8.7000e-01
93	PAN130048	-1.0636	-0.6821	-0.9047	8.0677e-02	8.7000e-01
94	PAN120224	-0.2508	0.0544	-0.1418	7.7867e-02	8.7000e-01
95	PAN130224	-1.1149	-0.8097	-0.9623	6.9647e-02	8.7000e-01
96	PAN120312	-0.2302	0.0750	-0.0620	7.7835e-02	8.7000e-01
97	PAN130312	-1.3173	-1.0884	-1.1710	6.3902e-02	8.7000e-01
98	PAB000136	30.3559	30.5848	30.4867	4.8553e-02	5.8499e-01
99	PAB100136	30.3137	30.4052	30.3688	3.3664e-02	5.8495e-01
100	PAB125136	30.2652	30.4483	30.3595	4.0090e-02	5.8494e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	30.0099	30.2541	30.1369	3.4877e-02	7.5377e-01
102	PRV000001	20.2936	20.4157	20.3559	6.1655e-02	7.5172e-01
103	PSR000001	29.8409	30.0851	29.9580	4.2864e-02	7.5373e-01
104	PFM000001	18.4796	19.2121	18.8982	1.6292e-01	5.0223e-01
105	PAN000136	-1.1965	1.0923	-0.1502	5.1180e-01	4.9200e+00
106	PFM000002	18.0044	18.9105	18.5530	2.0922e-01	2.0531e-01
107	EMPTY	0.0000	0.0049	0.0046	1.1827e-03	0.0000e+00
108	EMPTY	-10.0000	-8.9453	-9.8868	2.6017e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0024	2.4662e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0713	7.4477e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0047	8.9148e-02	8.1000e-01
114	VPW000003	-0.0400	0.1553	0.0477	9.8153e-02	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0843	1.1838e-01	8.1000e-01
116	VPW000005	-0.1200	0.2706	-0.0044	1.1906e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0406	1.1044e-01	8.1000e-01
118	IPW000001	10.1147	15.9717	12.1467	1.3193e+00	8.1006e+00
119	IPW000002	-10.1560	-4.3022	-7.5277	1.0945e+00	8.1002e+00
120	IPW000003	-17.5968	-13.6968	-15.7662	1.1542e+00	8.1010e+00
121	IPW000004	-0.5000	0.4766	-0.1811	2.7388e-01	2.0000e+00
122	IPW000005	0.1883	1.1647	0.6267	3.3419e-01	2.0000e+00
123	IPW000006	9.7656	11.7188	10.6824	4.6357e-01	2.0018e+00
124	EMPTY	-0.0293	-0.0146	-0.0209	4.2286e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.9354e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0170	2.8406e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0157	2.8655e-03	0.0000e+00
128	IHT000001	-0.2494	-0.0541	-0.1617	9.8153e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1173	8.9148e-02	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2576	1.0315e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1681	7.2937e-02	4.1000e+00
132	IHT000005	-0.2800	-0.0847	-0.1206	7.6412e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0093	1.0378e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.1119	9.2189e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1878	9.3931e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1761	7.5986e-02	4.1000e+00
137	IHT000010	-0.1600	0.2306	-0.0803	1.0486e-01	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.0999	9.9629e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1733	1.0548e-01	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0179	9.1482e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1480	6.1868e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1683	9.5132e-02	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1638	9.9792e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	0.0159	2.4197e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3869	1.0548e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0241	8.7680e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1154	9.2715e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3288	1.0299e-01	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1878	9.3931e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1274	6.9053e-02	4.1000e+00
151	IHT000024	-0.4806	-0.0900	-0.2295	9.7656e-02	4.1000e+00
152	IHT000025	-0.2000	0.1906	0.0950	1.0640e-01	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0638	9.2540e-02	4.1000e+00
154	IHT000027	-0.3906	0.0000	-0.1116	1.0548e-01	4.1000e+00
155	IHT000028	-0.1647	0.2259	-0.0013	9.2189e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1234	8.3122e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.0914	7.5986e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0748	1.0299e-01	4.1000e+00
159	IHT000032	-0.1953	0.1953	0.0399	8.8965e-02	4.1000e+00
160	IHT000033	37.1294	37.5200	37.3885	1.0076e-01	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0276	1.0594e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.0869	1.2556e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	0.0158	9.7656e-02	4.1000e+00

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Velocity 1 = 0.003901 (ft/sec)

Velocity 2 = 0.005300 (ft/sec)

Pressure Drop = 0.001400 (psi)

Tsat in = 0.001999 (deg F) Tsat out = 0.024399 (deg F)

Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0048	0.0064
1	TRF000002	0.0313	0.0416
2	TFM000001	0.0392	0.0451
3	TIN000001	0.0612	0.0702
4	TRV000001	0.0405	0.0465
5	TSR000001	0.0006	0.0007
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0268	0.0310
8	TAO070136	0.0583	0.0664
9	TAO080136	0.0244	0.0279
10	TAO090136	0.0164	0.0188
11	TAO100136	0.0295	0.0337
12	TAO105136	0.0717	0.0817
13	EMPTY	0.0485	0.1179
14	TAO115136	0.0290	0.0333
15	EMPTY	0.0006	0.0016
16	TAO125136	0.0430	0.0492
17	TAO130136	0.0173	0.0198
18	EMPTY	0.0106	0.0257
19	TAO130048	0.0116	0.0133
20	TAO120224	0.0048	0.0055
21	EMPTY	0.0473	0.1216
22	TAO120312	0.0148	0.0170
23	TAO130312	0.0143	0.0165
24	EMPTY	0.0451	0.1148
25	TRT070000	0.0043	0.0049
26	TRT100000	0.0206	0.0235
27	TRT120000	0.0308	0.0352
28	TRT125000	0.0483	0.0552
29	EMPTY	0.0276	0.0697
30	EMPTY	0.0539	0.1357
31	TAF050136	0.0067	0.0077
32	TAF070136	0.0405	0.0460
33	TAF080136	0.0410	0.0469
34	TAF090136	0.0138	0.0157
35	TAF100136	0.0410	0.0470
36	TAF105136	0.0085	0.0097
37	TAF110136	0.0189	0.0217
38	TAF115136	0.0175	0.0199
39	TAF120136	0.0173	0.0198
40	TAF125136	0.0205	0.0234
41	TAF130136	0.0213	0.0243
42	TAF120048	0.0614	0.0700
43	TAF130048	0.0288	0.0330
44	TAF120224	0.0082	0.0094
45	TAF130224	0.0131	0.0151

#	Name	Abs Diff	%Diff
46	EMPTY	0.0248	0.0652
47	EMPTY	0.0794	0.2029
48	TAI130048	0.0958	0.1094
49	TAI130136	0.0684	0.0786
50	TAI130224	0.0316	0.0360
51	TAI130312	0.0722	0.0829
52	TRR130000	0.0226	0.0260
53	TSI000001	0.0531	0.0664
54	TSI000002	0.0300	0.0422
55	TSO000001	0.0344	0.0506
56	TSO000002	0.0279	0.0347
57	TAF020136	0.0546	0.0627
58	TAF120312	0.0005	0.0007
59	TAF130312	0.0045	0.0052
60	EMPTY	0.0001	0.0209
61	EMPTY	0.0001	0.0203
62	EMPTY	0.0002	0.0394
63	EMPTY	0.0001	0.0191
64	EMPTY	0.0002	0.0611
65	EMPTY	0.0010	0.2874
66	EMPTY	0.0002	0.0546
67	EMPTY	0.0006	0.1564
68	EMPTY	0.0006	0.1516
69	EMPTY	0.0001	0.0241
70	EMPTY	0.0001	0.0232
71	EMPTY	0.0001	0.0220
72	EMPTY	0.0001	0.0213
73	EMPTY	0.0001	0.0205
74	EMPTY	0.0000	0.0000
75	EMPTY	0.0001	0.0191
76	EMPTY	0.0001	0.0186
77	EMPTY	0.0001	0.0180
78	EMPTY	0.0015	0.2588
79	EMPTY	0.0008	0.1330
80	PAN020136	0.0031	0.4718
81	PAN050136	0.0161	3.5706
82	PAN070136	0.0123	1.1292
83	PAN080136	0.0016	0.1958
84	PAN090136	0.0080	1.3596
85	PAN100136	0.0022	11.5789
86	PAN105136	0.0014	0.0920
87	PAN110136	0.0084	1.4688
88	PAN115136	0.0037	0.6175
89	PAN120136	0.0031	0.3147
90	PAN125136	0.0539	12.5964
91	PAN130136	0.0008	0.1176
92	PAN120048	0.0103	0.9755
93	PAN130048	0.0017	0.1876
94	PAN120224	0.0098	6.4644
95	PAN130224	0.0168	1.7768
96	PAN120312	0.0180	40.9091
97	PAN130312	0.0002	0.0171
98	PAB000136	0.0010	0.0033
99	PAB100136	0.0071	0.0234
100	PAB125136	0.0128	0.0421

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0073	0.0242
102	PRV000001	0.0085	0.0417
103	PSR000001	0.0050	0.0167
104	PFM000001	0.0136	0.0719
105	PAN000136	0.0392	20.6969
106	PFM000002	0.0180	0.0971
107	EMPTY	0.0003	6.1224
108	EMPTY	0.0248	0.2502
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0077	12.1069
113	VPW000002	0.0078	251.6129
114	VPW000003	0.0291	156.4516
115	VPW000004	0.0102	13.7652
116	VPW000005	0.0336	88.4211
117	VPW000006	0.0266	39.5833
118	IPW000001	0.5482	4.7265
119	IPW000002	1.8987	33.7307
120	IPW000003	0.8994	6.0497
121	IPW000004	0.6119	77.1627
122	IPW000005	0.0107	1.6787
123	IPW000006	0.7605	7.6649
124	EMPTY	0.0002	0.9662
125	EMPTY	0.0002	1.4286
126	EMPTY	0.0006	3.4091
127	EMPTY	0.0001	0.6329
128	IHT000001	0.0017	1.0404
129	IHT000002	0.0123	11.7143
130	IHT000003	0.0142	5.8340
131	IHT000004	0.0111	7.0701
132	IHT000005	0.0281	30.3784
133	IHT000006	0.0088	1759.9999
134	IHT000007	0.0163	17.0502
135	IHT000008	0.0170	9.9532
136	IHT000009	0.0034	1.9687
137	IHT000010	0.0367	31.3675
138	IHT000011	0.0192	16.1209
139	IHT000012	0.0246	16.5434
140	IHT000013	0.0187	51.0929
141	IHT000014	0.0349	30.8576
142	IHT000015	0.0533	46.3478
143	IHT000016	0.0321	24.3736
144	IHT000017	0.0042	35.8974
145	IHT000018	0.0251	6.0922
146	IHT000019	0.0003	1.2295
147	IHT000020	0.0120	11.6054
148	IHT000021	0.0046	0.1380
149	IHT000022	0.0103	5.1994
150	IHT000023	0.0151	13.4461
151	IHT000024	0.0011	0.4770
152	IHT000025	0.0098	11.5023
153	IHT000026	0.0169	36.0341
154	IHT000027	0.0212	15.9639
155	IHT000028	0.0241	105.7018

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dif

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0202	14.0669
157	IHT000030	0.0317	25.7514
158	IHT000031	0.0202	21.2632
159	IHT000032	0.0265	39.9096
160	IHT000033	0.0013	0.0035
161	IHT000034	0.0369	57.2093
162	IHT000035	0.0062	6.6595
163	IHT000036	0.0028	15.0538

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Velocity 1 = 21.4164 (ft/sec) (+/- 3.4886 %)

Velocity 2 = 13.2411 (ft/sec) (+/- 3.4867 %)

Pressure drop = 13.1946 (psi)

Tsat in = 274.8249 (deg F) Tsat out = 254.9330 (deg F)

Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 3105.1240 %)

Phi outer = 0.0003 (kBtu/hr-ft2) (+/- 1744.3323 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.1838	74.8213	74.6046	1.7434e-01	1.9000e+00
1	TRF0000002	75.1508	75.3622	75.2522	1.0670e-01	1.9000e+00
2	TFM0000001	86.5565	87.4995	87.1118	2.1921e-01	1.9002e+00
3	TIN0000001	87.1510	87.7812	87.4347	1.7653e-01	1.9002e+00
4	TRV0000001	87.0476	87.7803	87.4098	2.0938e-01	1.9002e+00
5	TSR0000001	87.3468	87.9755	87.7095	1.5857e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.3466	87.1835	86.7632	1.9548e-01	1.9002e+00
8	TAO070136	87.5283	88.4756	88.1281	1.8434e-01	1.9002e+00
9	TAO080136	87.4234	87.9467	87.7059	1.3573e-01	1.9002e+00
10	TAO090136	87.0876	87.9260	87.5218	1.9505e-01	1.9002e+00
11	TAO100136	87.3991	87.9235	87.7409	1.2682e-01	1.9002e+00
12	TAO105136	87.5462	88.3857	88.0018	2.1259e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.1057	1.1539e-01	1.9011e+00
14	TAO115136	86.7546	87.7012	87.2911	2.3783e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5881	9.6255e-02	1.9010e+00
16	TAO125136	87.2953	87.9244	87.5998	1.4854e-01	1.9002e+00
17	TAO130136	87.1468	87.8748	87.5314	1.6470e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2753	1.0392e-01	1.9011e+00
19	TAO130048	87.3602	87.7803	87.5894	1.3169e-01	1.9002e+00
20	TAO120224	86.8515	87.6907	87.2776	1.6335e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8754	1.2005e-01	1.9010e+00
22	TAO120312	87.1307	87.9701	87.4981	1.6858e-01	1.9002e+00
23	TAO130312	86.9248	87.4489	87.2036	1.5929e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3485	1.7132e-01	1.9010e+00
25	TRT070000	87.0277	87.7650	87.4175	1.8211e-01	1.9002e+00
26	TRT100000	87.5285	88.3663	87.9582	2.0635e-01	1.9002e+00
27	TRT120000	87.4385	88.0678	87.7136	1.4659e-01	1.9002e+00
28	TRT125000	87.4186	88.2532	87.7795	1.6633e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5689	9.6846e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7434	1.9673e-01	1.9011e+00
31	TAF050136	87.4779	88.0016	87.7063	1.2817e-01	1.9002e+00
32	TAF070136	87.9680	88.8041	88.3803	1.9261e-01	1.9002e+00
33	TAF080136	87.3710	88.1017	87.6990	1.6212e-01	1.9002e+00
34	TAF090136	87.4411	88.4887	88.0424	2.7406e-01	1.9002e+00
35	TAF100136	87.1051	87.9450	87.5105	1.7363e-01	1.9002e+00
36	TAF105136	87.1734	88.3201	87.8092	2.4101e-01	1.9002e+00
37	TAF110136	87.2757	87.7994	87.5334	1.4985e-01	1.9002e+00
38	TAF115136	87.6386	88.4759	88.0968	2.0055e-01	1.9002e+00
39	TAF120136	87.4182	87.8383	87.6766	1.1265e-01	1.9002e+00
40	TAF125136	87.5890	88.2151	87.9463	1.4495e-01	1.9002e+00
41	TAF130136	87.4937	87.9137	87.7521	1.0856e-01	1.9002e+00
42	TAF120048	87.6100	88.5580	88.0587	2.3873e-01	1.9002e+00
43	TAF130048	87.3127	87.7328	87.5585	1.1733e-01	1.9002e+00
44	TAF120224	87.4280	88.1618	87.7489	1.7891e-01	1.9002e+00
45	TAF130224	86.9533	87.3735	87.2076	1.1446e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1767	2.2416e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3256	1.0670e-01	1.9010e+00
48	TAI130048	87.4044	88.5576	87.9685	2.5754e-01	1.9002e+00
49	TAI130136	86.9271	87.6600	87.2977	2.1381e-01	1.9002e+00
50	TAI130224	87.2684	88.4238	87.8882	2.9040e-01	1.9002e+00
51	TAI130312	86.8803	87.7203	87.3445	2.1325e-01	1.9002e+00
52	TRR130000	86.5483	87.5958	87.0913	2.2651e-01	1.9002e+00
53	TSI000001	79.8292	80.3565	80.0213	1.4563e-01	1.9001e+00
54	TSI000002	70.7237	71.7853	71.2567	2.5141e-01	1.9000e+00
55	TSO000001	67.7677	68.5167	68.1508	1.8466e-01	1.9000e+00
56	TSO000002	80.7395	81.5831	81.1762	2.1202e-01	1.9001e+00
57	TAF020136	86.9819	87.6145	87.2366	1.8196e-01	1.9002e+00
58	TAF120312	74.6392	75.6981	75.2091	2.3226e-01	1.9000e+00
59	TAF130312	86.7205	87.4545	87.0917	1.7752e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4839	1.4797e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.4991	2.0432e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5126	6.9053e-04	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5287	2.2146e-03	0.0000e+00
64	EMPTY	0.3369	0.3369	0.3369	0.0000e+00	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3566	9.6655e-04	0.0000e+00
66	EMPTY	0.3711	0.3760	0.3734	2.4642e-03	0.0000e+00
67	EMPTY	0.3906	0.3955	0.3907	6.9053e-04	0.0000e+00
68	EMPTY	0.4053	0.4102	0.4054	6.9053e-04	0.0000e+00
69	EMPTY	0.4199	0.4248	0.4244	1.3381e-03	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4394	6.9053e-04	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4638	6.9053e-04	0.0000e+00
72	EMPTY	0.4736	0.4785	0.4780	1.4797e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4964	2.3365e-03	0.0000e+00
74	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
75	EMPTY	0.5273	0.5322	0.5278	1.4797e-03	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5425	1.4797e-03	0.0000e+00
77	EMPTY	0.5615	0.5664	0.5621	1.6028e-03	0.0000e+00
78	EMPTY	0.5859	0.5908	0.5860	6.9053e-04	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6095	1.8950e-03	0.0000e+00
80	PAN020136	42.5985	46.7947	44.3853	7.8081e-01	8.7705e-01
81	PAN050136	84.7206	86.3991	85.4409	3.8508e-01	1.6935e+00
82	PAN070136	63.1071	64.4041	63.7236	2.6512e-01	8.8447e-01
83	PAN080136	27.1813	27.7154	27.4499	1.2160e-01	8.7270e-01
84	PAN090136	26.7324	27.4191	27.0910	1.5433e-01	8.7263e-01
85	PAN100136	28.0631	28.9787	28.5346	1.7955e-01	8.7292e-01
86	PAN105136	19.3824	19.9927	19.6937	1.4931e-01	8.7139e-01
87	PAN110136	16.7767	17.2345	16.9583	9.8563e-02	8.7103e-01
88	PAN115136	15.1408	15.9038	15.5589	1.8956e-01	8.7087e-01
89	PAN120136	11.1457	11.6797	11.3211	1.1663e-01	8.7046e-01
90	PAN125136	11.0619	11.6723	11.3152	1.3564e-01	8.7046e-01
91	PAN130136	11.3363	11.8704	11.6369	1.2655e-01	8.7049e-01
92	PAN120048	25.9064	26.5931	26.2452	1.4472e-01	8.7247e-01
93	PAN130048	24.4186	25.1053	24.7696	1.5944e-01	8.7220e-01
94	PAN120224	27.4439	28.0543	27.7125	1.4963e-01	8.7275e-01
95	PAN130224	24.2147	24.8251	24.5489	1.3428e-01	8.7216e-01
96	PAN120312	27.1593	27.6934	27.4416	1.2451e-01	8.7270e-01
97	PAN130312	23.4019	23.9360	23.6354	1.1881e-01	8.7200e-01
98	PAB000136	45.0959	45.4621	45.2817	9.8921e-02	5.9094e-01
99	PAB100136	34.9829	35.2117	35.0790	4.9155e-02	5.8659e-01
100	PAB125136	32.3251	32.5082	32.4002	4.5080e-02	5.8563e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	44.6584	45.3908	44.9684	1.5245e-01	7.5838e-01
102	PRV0000001	20.4157	20.4157	20.4157	7.7069e-06	7.5173e-01
103	PSR0000001	30.0851	30.2072	30.1071	4.7374e-02	7.5377e-01
104	PFM0000001	70.6647	72.5873	71.5839	4.0098e-01	5.3106e-01
105	PAN000136	362.2679	368.2188	365.2982	1.8724e+00	5.0040e+00
106	PFM0000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0080	2.3675e-03	0.0000e+00
108	EMPTY	-10.0000	-8.8184	-9.8043	2.7680e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0010	1.9730e-03	0.0000e+00
112	VPW0000001	-0.2706	0.1200	-0.0675	8.7880e-02	8.1000e-01
113	VPW0000002	-0.2000	0.1906	-0.0086	8.3612e-02	8.1000e-01
114	VPW0000003	-0.0400	0.1553	0.0186	9.0412e-02	8.1000e-01
115	VPW0000004	-0.0353	0.3553	0.0506	1.0559e-01	8.1000e-01
116	VPW0000005	-0.3153	0.2706	-0.0223	1.2001e-01	8.1000e-01
117	VPW0000006	-0.2000	0.1906	-0.0359	1.1409e-01	8.1000e-01
118	IPW0000001	-11.3611	-5.5040	-8.8621	1.2498e+00	8.1003e+00
119	IPW0000002	-6.2534	-2.3509	-4.4973	1.1323e+00	8.1001e+00
120	IPW0000003	7.7532	13.6032	10.5222	1.2514e+00	8.1004e+00
121	IPW0000004	1.4531	2.4297	2.0195	2.2839e-01	2.0001e+00
122	IPW0000005	-1.2764	-0.7882	-0.9737	2.3939e-01	2.0000e+00
123	IPW0000006	-8.7891	-6.8359	-8.0078	4.8327e-01	2.0010e+00
124	EMPTY	-0.0293	-0.0146	-0.0202	3.5582e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.9528e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0182	3.1257e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.7899e-03	0.0000e+00
128	IHT0000001	-0.2494	0.1412	-0.1752	1.0358e-01	4.1000e+00
129	IHT0000002	-0.2847	0.1059	-0.1402	9.5112e-02	4.1000e+00
130	IHT0000003	-0.5247	-0.1341	-0.2591	1.0259e-01	4.1000e+00
131	IHT0000004	-0.2000	-0.0047	-0.1648	7.5798e-02	4.1000e+00
132	IHT0000005	-0.2800	0.1106	-0.1238	8.8233e-02	4.1000e+00
133	IHT0000006	-0.1528	0.2378	-0.0122	1.1189e-01	4.1000e+00
134	IHT0000007	-0.2753	0.1153	-0.1034	9.3710e-02	4.1000e+00
135	IHT0000008	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
136	IHT0000009	-0.2000	-0.0047	-0.1727	6.8459e-02	4.1000e+00
137	IHT0000010	-0.1600	0.0353	-0.0975	9.2034e-02	4.1000e+00
138	IHT0000011	-0.2753	0.1153	-0.1073	7.9017e-02	4.1000e+00
139	IHT0000012	-0.3128	0.0778	-0.1566	9.6655e-02	4.1000e+00
140	IHT0000013	-0.1694	0.2212	-0.0209	1.0106e-01	4.1000e+00
141	IHT0000014	-0.1600	0.0353	-0.1131	8.4262e-02	4.1000e+00
142	IHT0000015	-0.2400	0.1506	-0.1345	1.0595e-01	4.1000e+00
143	IHT0000016	-0.3153	0.0753	-0.1239	7.3716e-02	4.1000e+00
144	IHT0000017	-0.5859	0.3906	-0.0430	2.5962e-01	4.1000e+00
145	IHT0000018	0.2753	0.6659	0.3769	1.0617e-01	4.1000e+00
146	IHT0000019	-0.2353	0.1553	-0.0361	4.8166e-02	4.1000e+00
147	IHT0000020	-0.2988	0.0919	-0.1073	6.2265e-02	4.1000e+00
148	IHT0000021	3.1694	3.3647	3.3373	6.8459e-02	4.1001e+00
149	IHT0000022	-0.3153	-0.1200	-0.1786	9.0412e-02	4.1000e+00
150	IHT0000023	-0.1553	0.0400	-0.1202	7.5798e-02	4.1000e+00
151	IHT0000024	0.4806	0.1053	-0.2150	1.0992e-01	4.1000e+00
152	IHT0000025	-0.0047	0.3859	0.0812	1.0559e-01	4.1000e+00
153	IHT0000026	-0.1953	0.1953	-0.0664	1.0145e-01	4.1000e+00
154	IHT0000027	-0.1953	0.0000	-0.1289	9.3461e-02	4.1000e+00
155	IHT0000028	-0.1647	0.2259	0.0384	1.0410e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1397	9.5357e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1270	8.2864e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1028	1.0410e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0859	9.7935e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.4145	9.8332e-02	4.1170e+00
161	IHT000034	-0.2753	0.3106	0.0645	1.2974e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.1127	1.3211e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	0.0420	1.0507e-01	4.1000e+00

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

8 of 12

Velocity 1 = 21.4002 (ft/sec) (+/- 3.4886 %)
Velocity 2 = 13.2411 (ft/sec) (+/- 3.4867 %)
Pressure drop = 13.2137 (psi)
Tsats in = 274.8187 (deg F) Tsats out = 254.9492 (deg F)
Phi inner = 0.0004 (kBtu/hr-ft2) (+/- 1729.7725 %)
Phi outer = 0.0003 (kBtu/hr-ft2) (+/- 1385.3988 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3963	74.8213	74.6045	1.6512e-01	1.9000e+00
1	TRF000002	75.1508	75.3622	75.2457	1.0625e-01	1.9000e+00
2	TFM000001	86.6612	87.4995	87.0612	2.1024e-01	1.9002e+00
3	TIN000001	87.1508	87.6766	87.4105	1.4235e-01	1.9002e+00
4	TRV000001	87.0476	87.9890	87.4619	1.8719e-01	1.9002e+00
5	TSR000001	87.4519	87.9755	87.7212	1.4338e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.3466	87.0795	86.7439	1.9108e-01	1.9002e+00
8	TAO070136	87.7384	88.4751	88.1103	1.8718e-01	1.9002e+00
9	TAO080136	87.2151	87.9467	87.7180	1.6897e-01	1.9002e+00
10	TAO090136	87.1928	87.9260	87.5349	1.7854e-01	1.9002e+00
11	TAO100136	87.3991	87.9235	87.7330	1.2604e-01	1.9002e+00
12	TAO105136	87.6514	88.3857	87.9983	2.2374e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0895	1.1557e-01	1.9011e+00
14	TAO115136	86.8598	87.7012	87.2484	2.0052e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5515	5.5718e-02	1.9009e+00
16	TAO125136	87.1915	87.9244	87.5675	1.4648e-01	1.9002e+00
17	TAO130136	87.1468	87.8748	87.5244	1.4990e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2719	1.0221e-01	1.9011e+00
19	TAO130048	87.2564	87.7803	87.5556	1.4026e-01	1.9002e+00
20	TAO120224	86.9567	87.4812	87.2735	1.4755e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8933	1.1718e-01	1.9010e+00
22	TAO120312	87.2358	87.7604	87.5099	1.3510e-01	1.9002e+00
23	TAO130312	86.9248	87.4489	87.2029	1.4901e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3339	1.6014e-01	1.9010e+00
25	TRT070000	87.0277	87.7650	87.3458	1.6007e-01	1.9002e+00
26	TRT100000	87.6336	88.3663	87.9925	1.7743e-01	1.9002e+00
27	TRT120000	87.5436	87.9627	87.7235	1.3019e-01	1.9002e+00
28	TRT125000	87.3139	88.0452	87.7571	1.9485e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6010	8.7535e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7134	2.2026e-01	1.9011e+00
31	TAF050136	87.4779	88.0016	87.7088	1.6271e-01	1.9002e+00
32	TAF070136	87.8649	88.5960	88.3377	1.9055e-01	1.9002e+00
33	TAF080136	87.3710	87.8939	87.6441	1.5932e-01	1.9002e+00
34	TAF090136	87.4411	88.4887	87.9628	2.5425e-01	1.9002e+00
35	TAF100136	87.2103	87.9450	87.5059	1.8263e-01	1.9002e+00
36	TAF105136	87.1734	88.3201	87.7266	2.5457e-01	1.9002e+00
37	TAF110136	87.1721	87.7994	87.4768	1.7208e-01	1.9002e+00
38	TAF115136	87.7427	88.4759	88.0592	1.9300e-01	1.9002e+00
39	TAF120136	87.5234	87.8383	87.6776	1.1751e-01	1.9002e+00
40	TAF125136	87.5890	88.3202	87.9131	1.5281e-01	1.9002e+00
41	TAF130136	87.3895	87.9137	87.7275	1.4872e-01	1.9002e+00
42	TAF120048	87.6100	88.5580	88.0400	2.3246e-01	1.9002e+00
43	TAF130048	87.2082	87.7328	87.5507	1.2814e-01	1.9002e+00
44	TAF120224	87.4280	88.1618	87.8003	1.9612e-01	1.9002e+00
45	TAF130224	87.0585	87.3735	87.2085	1.1542e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1616	2.1506e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2355	1.1305e-01	1.9010e+00
48	TAI130048	87.4044	88.3481	87.8710	2.3447e-01	1.9002e+00
49	TAI130136	86.9271	87.6600	87.2903	1.8646e-01	1.9002e+00
50	TAI130224	87.2684	88.4238	87.9287	2.9937e-01	1.9002e+00
51	TAI130312	86.9855	87.7203	87.3540	2.1115e-01	1.9002e+00
52	TRR130000	86.6535	87.4907	87.0596	2.4035e-01	1.9002e+00
53	TSI000001	79.8292	80.3565	80.0445	1.5956e-01	1.9001e+00
54	TSI000002	70.7242	71.7853	71.3152	2.6082e-01	1.9000e+00
55	TSO000001	67.6608	68.5167	68.1543	1.8751e-01	1.9000e+00
56	TSO000002	80.7395	81.4779	81.1314	1.7884e-01	1.9001e+00
57	TAF020136	86.9806	87.5081	87.2354	1.5635e-01	1.9002e+00
58	TAF120312	74.6392	75.8042	75.1926	2.7022e-01	1.9000e+00
59	TAF130312	86.7205	87.3493	87.0672	1.5318e-01	1.9002e+00
60	EMPTY	0.4785	0.4883	0.4833	1.5727e-03	0.0000e+00
61	EMPTY	0.4980	0.4980	0.4980	0.0000e+00	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5122	1.4934e-03	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5274	6.9754e-04	0.0000e+00
64	EMPTY	0.3320	0.3369	0.3368	6.9754e-04	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3565	6.9754e-04	0.0000e+00
66	EMPTY	0.3711	0.3760	0.3726	2.2737e-03	0.0000e+00
67	EMPTY	0.3906	0.3906	0.3906	0.0000e+00	0.0000e+00
68	EMPTY	0.4053	0.4102	0.4054	6.9754e-04	0.0000e+00
69	EMPTY	0.4199	0.4248	0.4243	1.4934e-03	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4394	6.9754e-04	0.0000e+00
71	EMPTY	0.4639	0.4639	0.4639	0.0000e+00	0.0000e+00
72	EMPTY	0.4736	0.4785	0.4780	1.4934e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4968	2.1781e-03	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5126	6.9754e-04	0.0000e+00
75	EMPTY	0.5273	0.5322	0.5279	1.6172e-03	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5423	1.1827e-03	0.0000e+00
77	EMPTY	0.5615	0.5664	0.5616	6.9754e-04	0.0000e+00
78	EMPTY	0.5811	0.5859	0.5857	9.7615e-04	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6089	2.2737e-03	0.0000e+00
80	PAN020136	43.6666	47.4050	44.9434	9.0497e-01	8.7723e-01
81	PAN050136	84.5680	85.9413	85.3839	3.2000e-01	1.6935e+00
82	PAN070136	63.0308	64.6330	63.7922	3.6804e-01	8.8450e-01
83	PAN080136	27.1050	27.7917	27.4180	1.5436e-01	8.7270e-01
84	PAN090136	26.5036	27.3428	27.0345	1.5570e-01	8.7262e-01
85	PAN100136	28.0631	28.9024	28.4726	1.8141e-01	8.7291e-01
86	PAN105136	19.0772	20.0690	19.6673	1.7326e-01	8.7139e-01
87	PAN110136	16.7767	17.1582	16.9480	1.1070e-01	8.7103e-01
88	PAN115136	15.1408	15.7512	15.4865	1.6192e-01	8.7086e-01
89	PAN120136	11.1457	11.7560	11.3932	1.6074e-01	8.7047e-01
90	PAN125136	10.9856	11.6723	11.3406	1.5143e-01	8.7046e-01
91	PAN130136	11.2600	11.9467	11.6244	1.4631e-01	8.7049e-01
92	PAN120048	25.9064	26.6693	26.2630	1.4641e-01	8.7247e-01
93	PAN130048	24.4186	25.0290	24.7596	1.3406e-01	8.7220e-01
94	PAN120224	27.4439	28.0543	27.7289	1.2915e-01	8.7276e-01
95	PAN130224	24.2147	24.8251	24.5464	1.2018e-01	8.7216e-01
96	PAN120312	27.1593	27.6934	27.4256	1.3676e-01	8.7270e-01
97	PAN130312	23.3256	23.8597	23.6230	1.2865e-01	8.7200e-01
98	PAB000136	45.0501	45.5536	45.2771	1.0487e-01	5.9094e-01
99	PAB100136	34.9829	35.2117	35.0838	5.0302e-02	5.8659e-01
100	PAB125136	32.3251	32.4625	32.4092	3.8918e-02	5.8563e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	44.6584	45.3908	45.0196	1.6521e-01	7.5840e-01
102	PRV000001	20.4157	20.4157	20.4157	7.7085e-06	7.5173e-01
103	PSR000001	30.0851	30.2072	30.1050	4.5586e-02	7.5377e-01
104	PFM000001	70.5732	72.4042	71.4756	3.9022e-01	5.3097e-01
105	PAN000136	359.0635	370.0499	365.8272	1.8972e+00	5.0043e+00
106	PFM000002	27.2165	27.2165	27.2165	1.1563e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0073	2.4662e-03	0.0000e+00
108	EMPTY	-10.0000	-9.2285	-9.8652	2.0516e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0051	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0008	1.8234e-03	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0753	8.9148e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0326	8.9148e-02	8.1000e-01
114	VPW000003	-0.2353	0.1553	0.0517	1.0625e-01	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0524	9.8153e-02	8.1000e-01
116	VPW000005	-0.1200	0.0753	-0.0204	9.8648e-02	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0406	9.4962e-02	8.1000e-01
118	IPW000001	-11.3611	-7.4564	-9.5681	1.2499e+00	8.1004e+00
119	IPW000002	-8.2047	-2.3509	-4.1429	1.4816e+00	8.1001e+00
120	IPW000003	9.7032	13.6032	11.5736	1.0500e+00	8.1005e+00
121	IPW000004	1.4531	2.4297	2.1008	2.5191e-01	2.0001e+00
122	IPW000005	-1.2764	-0.3000	-1.0074	2.8296e-01	2.0000e+00
123	IPW000006	-9.7656	-8.3008	-8.8688	4.2692e-01	2.0012e+00
124	EMPTY	-0.0293	-0.0146	-0.0213	3.6883e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.6370e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0184	3.4906e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0153	3.3057e-03	0.0000e+00
128	IHT000001	-0.4447	-0.0541	-0.1617	1.0594e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1372	9.3759e-02	4.1000e+00
130	IHT000003	-0.3294	-0.1341	-0.2497	9.6990e-02	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1482	9.5812e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1245	8.8965e-02	4.1000e+00
133	IHT000006	-0.1528	0.0425	-0.0253	9.3931e-02	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0999	7.1817e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1599	7.9532e-02	4.1000e+00
136	IHT000009	-0.3953	0.1906	-0.1801	8.2141e-02	4.1000e+00
137	IHT000010	-0.1600	0.2306	-0.0843	1.1146e-01	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1039	8.5810e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1574	1.1262e-01	4.1000e+00
140	IHT000013	-0.3647	0.0259	-0.0458	1.0315e-01	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1401	9.1305e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1483	9.8483e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1479	6.9053e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0797	2.6118e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3670	1.0625e-01	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0280	4.7310e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1074	9.3412e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3408	8.5810e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1957	1.0409e-01	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1194	9.4962e-02	4.1000e+00
151	IHT000024	-0.2853	0.1053	-0.2255	9.9303e-02	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.0790	1.0548e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0638	1.0076e-01	4.1000e+00
154	IHT000027	-0.1953	0.1953	-0.1315	1.0076e-01	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0187	9.2715e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1354	9.9629e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1193	9.3412e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1226	1.0092e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0797	9.6990e-02	4.1000e+00
160	IHT000033	37.3247	37.7153	37.4004	1.0409e-01	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0356	1.1906e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1188	1.0548e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	0.0238	1.0836e-01	4.1000e+00

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Velocity 1 = 0.016201 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.019100 (psi)

Tsat in = 0.006195 (deg F) Tsat out = 0.016205 (deg F)

Phi inner = 0.000200 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0001	0.0001
1	TRF000002	0.0065	0.0086
2	TFM000001	0.0506	0.0581
3	TIN000001	0.0242	0.0277
4	TRV000001	0.0521	0.0596
5	TSR000001	0.0117	0.0133
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0193	0.0222
8	TAO070136	0.0178	0.0202
9	TAO080136	0.0121	0.0138
10	TAO090136	0.0131	0.0150
11	TAO100136	0.0079	0.0090
12	TAO105136	0.0035	0.0040
13	EMPTY	0.0162	0.0394
14	TAO115136	0.0427	0.0489
15	EMPTY	0.0366	0.0974
16	TAO125136	0.0323	0.0369
17	TAO130136	0.0070	0.0080
18	EMPTY	0.0034	0.0082
19	TAO130048	0.0338	0.0386
20	TAO120224	0.0041	0.0047
21	EMPTY	0.0179	0.0460
22	TAO120312	0.0118	0.0135
23	TAO130312	0.0007	0.0008
24	EMPTY	0.0146	0.0371
25	TRT070000	0.0717	0.0820
26	TRT100000	0.0343	0.0390
27	TRT120000	0.0099	0.0113
28	TRT125000	0.0224	0.0255
29	EMPTY	0.0321	0.0811
30	EMPTY	0.0300	0.0755
31	TAF050136	0.0025	0.0029
32	TAF070136	0.0426	0.0482
33	TAF080136	0.0549	0.0626
34	TAF090136	0.0796	0.0904
35	TAF100136	0.0046	0.0053
36	TAF105136	0.0826	0.0941
37	TAF110136	0.0566	0.0647
38	TAF115136	0.0376	0.0427
39	TAF120136	0.0010	0.0011
40	TAF125136	0.0332	0.0377
41	TAF130136	0.0246	0.0280
42	TAF120048	0.0187	0.0212
43	TAF130048	0.0078	0.0089
44	TAF120224	0.0514	0.0586
45	TAF130224	0.0009	0.0010

#	Name	Abs Diff	%Diff
46	EMPTY	0.0151	0.0396
47	EMPTY	0.0901	0.2291
48	TAI130048	0.0975	0.1108
49	TAI130136	0.0074	0.0085
50	TAI130224	0.0405	0.0461
51	TAI130312	0.0095	0.0109
52	TRR130000	0.0317	0.0364
53	TSI000001	0.0232	0.0290
54	TSI000002	0.0585	0.0821
55	TSO000001	0.0035	0.0051
56	TSO000002	0.0448	0.0552
57	TAF020136	0.0012	0.0014
58	TAF120312	0.0165	0.0219
59	TAF130312	0.0245	0.0281
60	EMPTY	0.0006	0.1240
61	EMPTY	0.0011	0.2204
62	EMPTY	0.0004	0.0780
63	EMPTY	0.0013	0.2459
64	EMPTY	0.0001	0.0297
65	EMPTY	0.0001	0.0280
66	EMPTY	0.0008	0.2143
67	EMPTY	0.0001	0.0256
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0001	0.0236
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0001	0.0216
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0004	0.0806
74	EMPTY	0.0001	0.0195
75	EMPTY	0.0001	0.0189
76	EMPTY	0.0002	0.0369
77	EMPTY	0.0005	0.0889
78	EMPTY	0.0003	0.0512
79	EMPTY	0.0006	0.0984
80	PAN020136	0.5581	1.2574
81	PAN050136	0.0570	0.0667
82	PAN070136	0.0686	0.1077
83	PAN080136	0.0319	0.1162
84	PAN090136	0.0565	0.2086
85	PAN100136	0.0620	0.2173
86	PAN105136	0.0264	0.1341
87	PAN110136	0.0103	0.0607
88	PAN115136	0.0724	0.4653
89	PAN120136	0.0721	0.6369
90	PAN125136	0.0254	0.2245
91	PAN130136	0.0125	0.1074
92	PAN120048	0.0178	0.0678
93	PAN130048	0.0100	0.0404
94	PAN120224	0.0164	0.0592
95	PAN130224	0.0025	0.0102
96	PAN120312	0.0160	0.0583
97	PAN130312	0.0124	0.0525
98	PAB000136	0.0046	0.0102
99	PAB100136	0.0048	0.0137
100	PAB125136	0.0090	0.0278

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0512	0.1139
102	PRV000001	0.0000	0.0000
103	PSR000001	0.0021	0.0070
104	PFM000001	0.1083	0.1513
105	PAN000136	0.5290	0.1448
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0007	8.7500
108	EMPTY	0.0609	0.6212
109	EMPTY	0.0002	4.0816
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	20.0000
112	VPW000001	0.0078	11.5556
113	VPW000002	0.0240	279.0698
114	VPW000003	0.0331	177.9570
115	VPW000004	0.0018	3.5573
116	VPW000005	0.0019	8.5202
117	VPW000006	0.0047	13.0919
118	IPW000001	0.7060	7.9665
119	IPW000002	0.3544	7.8803
120	IPW000003	1.0514	9.9922
121	IPW000004	0.0813	4.0257
122	IPW000005	0.0337	3.4610
123	IPW000006	0.8610	10.7520
124	EMPTY	0.0011	5.4455
125	EMPTY	0.0005	3.4483
126	EMPTY	0.0002	1.0989
127	EMPTY	0.0011	6.7073
128	IHT000001	0.0135	7.7055
129	IHT000002	0.0030	2.1398
130	IHT000003	0.0094	3.6279
131	IHT000004	0.0166	10.0728
132	IHT000005	0.0007	0.5654
133	IHT000006	0.0131	107.3771
134	IHT000007	0.0035	3.3849
135	IHT000008	0.0148	8.4717
136	IHT000009	0.0074	4.2849
137	IHT000010	0.0132	13.5385
138	IHT000011	0.0034	3.1687
139	IHT000012	0.0008	0.5109
140	IHT000013	0.0249	119.1388
141	IHT000014	0.0270	23.8727
142	IHT000015	0.0138	10.2602
143	IHT000016	0.0240	19.3705
144	IHT000017	0.0367	85.3488
145	IHT000018	0.0099	2.6267
146	IHT000019	0.0081	22.4377
147	IHT000020	0.0001	0.0932
148	IHT000021	0.0035	0.1049
149	IHT000022	0.0171	9.5745
150	IHT000023	0.0008	0.6656
151	IHT000024	0.0105	4.8837
152	IHT000025	0.0022	2.7094
153	IHT000026	0.0026	3.9157
154	IHT000027	0.0026	2.0171
155	IHT000028	0.0197	51.3021

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0043	3.0780
157	IHT000030	0.0077	6.0630
158	IHT000031	0.0198	19.2607
159	IHT000032	0.0062	7.2177
160	IHT000033	0.0141	0.0377
161	IHT000034	0.0289	44.8062
162	IHT000035	0.0061	5.4126
163	IHT000036	0.0182	43.3333

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Velocity 1 = 7.0572 (ft/sec) (+/- 4.7714 %)
 Velocity 2 = 6.9438 (ft/sec) (+/- 3.6785 %)
 Pressure drop = -3.0356 (psi)
 Tsat in = 243.8195 (deg F) Tsat out = 249.5421 (deg F)
 Phi inner = -0.0005 (kBtu/hr-ft2) (+/- 1432.7872 %)
 Phi outer = -0.0003 (kBtu/hr-ft2) (+/- 1345.0460 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3963	75.0338	74.7023	1.6154e-01	1.9000e+00
1	TRF000002	74.9393	75.5736	75.2564	1.2268e-01	1.9000e+00
2	TFM000001	86.9752	87.9180	87.3423	1.8352e-01	1.9002e+00
3	TIN000001	87.3614	87.9912	87.6658	1.5761e-01	1.9002e+00
4	TRV000001	86.9439	87.6756	87.3517	1.9281e-01	1.9002e+00
5	TSR000001	87.4519	87.9755	87.7683	1.4879e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.4507	87.2882	86.9724	1.9780e-01	1.9002e+00
8	TAO070136	87.9495	88.7906	88.3512	1.8109e-01	1.9002e+00
9	TAO080136	87.6318	88.2600	87.9646	1.5910e-01	1.9002e+00
10	TAO090136	87.2973	88.1351	87.7187	1.9790e-01	1.9002e+00
11	TAO100136	87.5040	88.3422	87.9631	1.7186e-01	1.9002e+00
12	TAO105136	87.7565	88.7004	88.2284	2.0458e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0782	1.1427e-01	1.9011e+00
14	TAO115136	86.8605	87.9116	87.4763	2.6286e-01	1.9002e+00
15	EMPTY	37.3074	37.7675	37.5466	6.5065e-02	1.9009e+00
16	TAO125136	87.4005	88.0295	87.7882	1.4246e-01	1.9002e+00
17	TAO130136	87.3533	88.0812	87.7140	1.7380e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2891	1.0964e-01	1.9011e+00
19	TAO130048	87.3606	88.0942	87.7442	1.5919e-01	1.9002e+00
20	TAO120224	87.0615	87.7958	87.4747	1.7903e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8616	1.3579e-01	1.9010e+00
22	TAO120312	87.3408	88.0752	87.7038	1.6713e-01	1.9002e+00
23	TAO130312	87.0292	87.6579	87.3544	1.2218e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3623	1.7609e-01	1.9010e+00
25	TRT070000	87.2389	87.9761	87.6116	1.6763e-01	1.9002e+00
26	TRT100000	87.8426	88.5744	88.2134	1.7966e-01	1.9002e+00
27	TRT120000	87.5436	88.3822	87.9357	1.5822e-01	1.9002e+00
28	TRT125000	87.5221	88.3583	87.9465	1.9498e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6011	7.3182e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.7066	2.4167e-01	1.9011e+00
31	TAF050136	87.5821	88.2104	87.9196	1.6955e-01	1.9002e+00
32	TAF070136	88.0731	89.0121	88.5598	2.1147e-01	1.9002e+00
33	TAF080136	87.4743	88.2068	87.8658	1.7384e-01	1.9002e+00
34	TAF090136	87.7553	88.8026	88.3189	2.3552e-01	1.9002e+00
35	TAF100136	87.2103	88.0501	87.7079	1.5839e-01	1.9002e+00
36	TAF105136	87.3815	88.5279	87.9179	2.5527e-01	1.9002e+00
37	TAF110136	87.3798	88.0081	87.7132	1.7274e-01	1.9002e+00
38	TAF115136	87.7427	88.7900	88.2727	2.0226e-01	1.9002e+00
39	TAF120136	87.6272	88.1518	87.9064	1.3813e-01	1.9002e+00
40	TAF125136	87.7972	88.4252	88.1341	1.4981e-01	1.9002e+00
41	TAF130136	87.4942	88.1230	87.9156	1.6331e-01	1.9002e+00
42	TAF120048	87.7165	88.7689	88.2822	2.4061e-01	1.9002e+00
43	TAF130048	87.4179	87.9424	87.6761	1.5600e-01	1.9002e+00
44	TAF120224	87.5332	88.2669	87.9292	1.8974e-01	1.9002e+00
45	TAF130224	86.9538	87.6895	87.4352	1.4257e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0710	2.0481e-01	1.9010e+00
47	EMPTY	38.9168	39.1464	39.1327	5.3101e-02	1.9010e+00
48	TAI130048	87.5095	88.6627	88.1196	2.6332e-01	1.9002e+00
49	TAI130136	87.1361	87.8688	87.5237	1.7590e-01	1.9002e+00
50	TAI130224	87.5837	88.6338	88.1067	2.7293e-01	1.9002e+00
51	TAI130312	87.0907	87.9302	87.5671	2.0360e-01	1.9002e+00
52	TRR130000	86.8627	87.8049	87.2965	2.1046e-01	1.9002e+00
53	TSI000001	79.7239	80.3565	80.0720	1.6120e-01	1.9001e+00
54	TSI000002	70.7237	71.7853	71.3672	2.9194e-01	1.9000e+00
55	TSO000001	67.6608	68.5161	68.1292	1.7262e-01	1.9000e+00
56	TSO000002	80.5290	81.3727	80.9570	2.3086e-01	1.9001e+00
57	TAF020136	87.0884	87.8256	87.4940	1.7660e-01	1.9002e+00
58	TAF120312	74.6392	75.6987	75.2643	2.3946e-01	1.9000e+00
59	TAF130312	86.9300	87.6638	87.2678	1.6982e-01	1.9002e+00
60	EMPTY	0.4834	0.4932	0.4869	2.4244e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.5026	1.1714e-03	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5153	2.4583e-03	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5321	6.9053e-04	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3314	1.6028e-03	0.0000e+00
65	EMPTY	0.3516	0.3516	0.3516	0.0000e+00	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3668	1.6028e-03	0.0000e+00
67	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
68	EMPTY	0.3955	0.4004	0.4001	1.1714e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4186	2.2146e-03	0.0000e+00
70	EMPTY	0.4346	0.4346	0.4346	0.0000e+00	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4581	1.8950e-03	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4721	2.3008e-03	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4912	2.4164e-03	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5075	1.1714e-03	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5229	1.3381e-03	0.0000e+00
76	EMPTY	0.5371	0.5420	0.5378	1.7115e-03	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5575	1.8950e-03	0.0000e+00
78	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6054	6.9053e-04	0.0000e+00
80	PAN020136	-11.1124	-10.8073	-10.9766	7.4386e-02	8.7043e-01
81	PAN050136	-20.5650	-19.9547	-20.2598	1.2331e-01	1.6808e+00
82	PAN070136	-13.1105	-12.8816	-13.0403	6.3253e-02	8.7061e-01
83	PAN080136	-7.3035	-7.0746	-7.1937	7.0903e-02	8.7019e-01
84	PAN090136	-6.9132	-6.6843	-6.7667	6.3253e-02	8.7016e-01
85	PAN100136	-6.7269	-6.4217	-6.5545	7.5212e-02	8.7015e-01
86	PAN105136	-2.6666	-2.4377	-2.6055	5.3395e-02	8.7002e-01
87	PAN110136	-3.2886	-3.1360	-3.2153	5.7590e-02	8.7004e-01
88	PAN115136	-2.9408	-2.7120	-2.8264	7.2706e-02	8.7003e-01
89	PAN120136	-4.0368	-3.8080	-3.9102	6.8257e-02	8.7005e-01
90	PAN125136	-3.6628	-3.3576	-3.5072	7.2231e-02	8.7004e-01
91	PAN130136	-3.6173	-3.3884	-3.5028	6.2135e-02	8.7004e-01
92	PAN120048	-7.6629	-7.3578	-7.5226	7.2886e-02	8.7020e-01
93	PAN130048	-7.1671	-6.8619	-7.0038	6.3571e-02	8.7018e-01
94	PAN120224	-6.8121	-6.6595	-6.7236	5.8410e-02	8.7016e-01
95	PAN130224	-7.1421	-6.9132	-7.0612	6.9635e-02	8.7018e-01
96	PAN120312	-6.7152	-6.4863	-6.6328	6.5104e-02	8.7016e-01
97	PAN130312	-7.1920	-6.9631	-7.0897	6.8257e-02	8.7018e-01
98	PAB000136	26.6480	26.8769	26.7395	5.9935e-02	5.8384e-01
99	PAB100136	28.8488	29.0319	28.9175	5.4908e-02	5.8449e-01
100	PAB125136	29.4412	29.6243	29.5346	4.7121e-02	5.8468e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	26.3478	26.5919	26.4161	7.0449e-02	7.5290e-01
102	PRV000001	20.6598	20.7819	20.6647	2.4164e-02	7.5178e-01
103	PSR000001	29.4747	29.7189	29.5846	5.6508e-02	7.5364e-01
104	PFM000001	7.4018	7.8595	7.6361	1.0158e-01	5.0036e-01
105	PAN000136	-84.5095	-83.5939	-84.0426	2.5310e-01	4.9245e+00
106	PFM000002	6.8794	7.8862	7.3895	2.2170e-01	2.0085e-01
107	EMPTY	-0.0049	0.0049	0.0007	3.9471e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4482	-9.9799	8.5475e-02	0.0000e+00
109	EMPTY	0.0020	0.0049	0.0003	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0753	9.6655e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	0.0148	9.0412e-02	8.1000e-01
114	VPW000003	-0.0400	0.3506	0.0498	1.0595e-01	8.1000e-01
115	VPW000004	-0.2306	0.1600	0.0428	1.1161e-01	8.1000e-01
116	VPW000005	-0.1200	0.0753	-0.0184	9.8569e-02	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0672	1.1464e-01	8.1000e-01
118	IPW000001	8.1624	15.9717	10.7004	1.5403e+00	8.1004e+00
119	IPW000002	-8.2047	1.5516	-2.2338	2.6565e+00	8.1000e+00
120	IPW000003	-17.5968	-9.7968	-13.2678	2.3069e+00	8.1007e+00
121	IPW000004	-2.9414	-0.5000	-1.9160	8.5003e-01	2.0001e+00
122	IPW000005	0.1883	1.1647	0.5886	3.7805e-01	2.0000e+00
123	IPW000006	6.8359	11.2305	8.3887	1.4820e+00	2.0011e+00
124	EMPTY	-0.0293	-0.0098	-0.0204	4.8014e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	3.1257e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0171	3.4527e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.0067e-03	0.0000e+00
128	IHT000001	-0.4447	-0.0541	-0.1908	9.8648e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1441	1.0470e-01	4.1000e+00
130	IHT000003	-0.5247	0.0613	-0.2747	1.0470e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1570	8.1729e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1120	1.0447e-01	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0005	1.0654e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0956	8.6810e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1708	9.5112e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1922	5.5243e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1092	8.6541e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.0995	8.1347e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1527	1.0206e-01	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0287	8.8585e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1287	9.1354e-02	4.1000e+00
142	IHT000015	-0.2400	0.1506	-0.1189	1.0358e-01	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1356	5.3525e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	0.0195	2.2058e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.4042	1.0145e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0166	8.4997e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0956	9.6332e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3295	8.5454e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1786	9.0412e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1202	7.5798e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2228	9.2034e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0969	9.8569e-02	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0703	1.0992e-01	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1367	9.0412e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0228	8.7880e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1280	7.9017e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1192	7.3716e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0950	9.5357e-02	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0703	9.4702e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3794	8.8585e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0489	1.0885e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.0736	1.0145e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0127	9.6735e-02	4.1000e+00

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sum2

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Velocity 1 = 7.0449 (ft/sec) (+/- 4.7794 %)
Velocity 2 = 6.8672 (ft/sec) (+/- 3.6878 %)
Pressure drop = -3.0359 (psi)
Tsats in = 243.7556 (deg F) Tsats out = 249.4946 (deg F)
Phi inner = -0.0004 (kBtu/hr-ft2) (+/- 1696.7297 %)
Phi outer = -0.0003 (kBtu/hr-ft2) (+/- 1523.7949 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.3963	75.0338	74.6435	1.8066e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.2155	1.0749e-01	1.9000e+00
2	TFM0000001	86.9752	87.7088	87.3304	1.7741e-01	1.9002e+00
3	TIN0000001	87.3614	87.9912	87.6292	1.8315e-01	1.9002e+00
4	TRV0000001	86.9434	87.7803	87.3341	1.8714e-01	1.9002e+00
5	TSR0000001	87.2431	88.0806	87.7468	1.7582e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.5555	87.3934	86.9315	2.0039e-01	1.9002e+00
8	TAO070136	87.8444	88.5801	88.2779	1.9621e-01	1.9002e+00
9	TAO080136	87.5286	88.2600	87.9306	1.7862e-01	1.9002e+00
10	TAO090136	87.4020	88.2402	87.7143	2.0113e-01	1.9002e+00
11	TAO100136	87.6086	88.2380	87.9040	1.6805e-01	1.9002e+00
12	TAO105136	87.7565	88.5954	88.1867	2.0562e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1082	1.3282e-01	1.9011e+00
14	TAO115136	86.9652	87.9116	87.3731	2.1850e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5562	6.3635e-02	1.9009e+00
16	TAO125136	87.4005	88.0295	87.7468	1.5161e-01	1.9002e+00
17	TAO130136	87.3533	87.9799	87.6889	1.5836e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.3000	1.1280e-01	1.9011e+00
19	TAO130048	87.4653	87.9891	87.7007	1.5197e-01	1.9002e+00
20	TAO120224	87.1662	87.7958	87.4275	1.6037e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8980	1.0313e-01	1.9010e+00
22	TAO120312	87.3409	88.0752	87.6683	1.6810e-01	1.9002e+00
23	TAO130312	87.1339	87.8669	87.3139	1.6292e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3151	2.0843e-01	1.9010e+00
25	TRT070000	87.2389	87.8701	87.5700	1.5181e-01	1.9002e+00
26	TRT100000	87.7387	88.6802	88.1248	2.0952e-01	1.9002e+00
27	TRT120000	87.5436	88.2771	87.8518	1.7169e-01	1.9002e+00
28	TRT125000	87.5221	88.2532	87.9313	2.0206e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5916	8.6508e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.7415	2.2430e-01	1.9011e+00
31	TAF050136	87.4779	88.3154	87.8709	1.7947e-01	1.9002e+00
32	TAF070136	88.0731	88.9091	88.4653	2.1150e-01	1.9002e+00
33	TAF080136	87.5790	88.2068	87.8521	1.5207e-01	1.9002e+00
34	TAF090136	87.6506	88.5933	88.1595	2.2216e-01	1.9002e+00
35	TAF100136	87.3155	87.9450	87.6559	1.7990e-01	1.9002e+00
36	TAF105136	87.4866	88.4251	87.8880	2.3304e-01	1.9002e+00
37	TAF110136	87.2757	88.0081	87.6771	1.7536e-01	1.9002e+00
38	TAF115136	87.8474	88.6850	88.2001	2.1019e-01	1.9002e+00
39	TAF120136	87.5234	88.1518	87.8734	1.3460e-01	1.9002e+00
40	TAF125136	87.7972	88.3202	88.0917	1.6763e-01	1.9002e+00
41	TAF130136	87.5988	88.2281	87.8941	1.8858e-01	1.9002e+00
42	TAF120048	87.6100	88.5580	88.1692	2.1950e-01	1.9002e+00
43	TAF130048	87.4179	87.9424	87.6107	1.3436e-01	1.9002e+00
44	TAF120224	87.5332	88.3711	87.8987	1.8666e-01	1.9002e+00
45	TAF130224	87.0585	87.6895	87.3979	1.4435e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0490	2.0600e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1230	9.6591e-02	1.9010e+00
48	TAI130048	87.4044	88.5576	88.0550	2.9878e-01	1.9002e+00
49	TAI130136	87.1361	87.8688	87.4653	1.7874e-01	1.9002e+00
50	TAI130224	87.5837	88.5292	88.0489	2.3085e-01	1.9002e+00
51	TAI130312	87.0907	87.9302	87.4741	1.8866e-01	1.9002e+00
52	TRR130000	86.6535	87.5958	87.1195	2.2113e-01	1.9002e+00
53	TSI000001	79.6186	80.4623	80.0403	1.7220e-01	1.9001e+00
54	TSI000002	70.7237	71.5733	71.1811	2.0349e-01	1.9000e+00
55	TSO000001	67.8751	68.5161	68.1412	1.8000e-01	1.9000e+00
56	TSO000002	80.5285	81.3727	80.9420	2.1299e-01	1.9001e+00
57	TAF020136	87.1931	87.7192	87.4595	1.7065e-01	1.9002e+00
58	TAF120312	74.6392	75.6987	75.2013	2.9817e-01	1.9000e+00
59	TAF130312	86.9300	87.6638	87.2212	1.5624e-01	1.9002e+00
60	EMPTY	0.4834	0.4932	0.4878	1.7954e-03	0.0000e+00
61	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5166	1.9883e-03	0.0000e+00
63	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3317	1.1827e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3515	6.9754e-04	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3665	1.1827e-03	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3856	6.9754e-04	0.0000e+00
68	EMPTY	0.3955	0.4004	0.4003	6.9754e-04	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4186	2.1781e-03	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4345	6.9754e-04	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4584	1.6172e-03	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4733	1.1827e-03	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4915	2.3483e-03	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5076	9.7615e-04	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5229	1.3508e-03	0.0000e+00
76	EMPTY	0.5371	0.5420	0.5385	2.2287e-03	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5570	1.3508e-03	0.0000e+00
78	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
79	EMPTY	0.6055	0.6055	0.6055	0.0000e+00	0.0000e+00
80	PAN020136	-11.1124	-10.7310	-10.9567	8.8040e-02	8.7043e-01
81	PAN050136	-20.5650	-19.9547	-20.2629	1.3026e-01	1.6808e+00
82	PAN070136	-13.1868	-12.8816	-13.0654	7.9285e-02	8.7061e-01
83	PAN080136	-7.3035	-7.0746	-7.1805	8.0646e-02	8.7019e-01
84	PAN090136	-6.9132	-6.6843	-6.7762	6.0275e-02	8.7016e-01
85	PAN100136	-6.7269	-6.4217	-6.5712	8.3806e-02	8.7016e-01
86	PAN105136	-2.7428	-2.5140	-2.6121	5.6151e-02	8.7002e-01
87	PAN110136	-3.2886	-3.1360	-3.2201	5.4496e-02	8.7004e-01
88	PAN115136	-2.9408	-2.7120	-2.8303	6.9753e-02	8.7003e-01
89	PAN120136	-4.0368	-3.8080	-3.9123	7.8940e-02	8.7005e-01
90	PAN125136	-3.5865	-3.3576	-3.5102	6.2294e-02	8.7004e-01
91	PAN130136	-3.6173	-3.3884	-3.5067	6.4326e-02	8.7004e-01
92	PAN120048	-7.6629	-7.4340	-7.5212	6.9647e-02	8.7020e-01
93	PAN130048	-7.1671	-6.8619	-7.0129	7.5479e-02	8.7018e-01
94	PAN120224	-6.8121	-6.5832	-6.7186	5.8820e-02	8.7016e-01
95	PAN130224	-7.1421	-6.9132	-7.0518	6.9076e-02	8.7018e-01
96	PAN120312	-6.7152	-6.4863	-6.6280	6.7883e-02	8.7016e-01
97	PAN130312	-7.1920	-6.9631	-7.0705	6.9504e-02	8.7018e-01
98	PAB000136	26.6480	26.7853	26.7097	3.9146e-02	5.8383e-01
99	PAB100136	28.8488	28.9861	28.8946	3.8527e-02	5.8448e-01
100	PAB125136	29.4412	29.5785	29.5103	4.1916e-02	5.8467e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	26.3478	26.4699	26.3727	4.9708e-02	7.5289e-01
102	PRV000001	20.6598	20.7819	20.6623	1.7439e-02	7.5178e-01
103	PSR000001	29.4747	29.5968	29.5470	6.0619e-02	7.5363e-01
104	PFM000001	7.4018	7.7680	7.6092	7.8791e-02	5.0036e-01
105	PAN000136	-84.5095	-83.5939	-84.0517	2.6429e-01	4.9245e+00
106	PFM000002	6.7955	7.7855	7.2253	2.4335e-01	2.0081e-01
107	EMPTY	-0.0049	0.0049	-0.0001	3.3785e-03	0.0000e+00
108	EMPTY	-10.0000	-9.6631	-9.9857	6.0120e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0005	1.4934e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0634	7.3601e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	0.0152	8.2141e-02	8.1000e-01
114	VPW000003	-0.2353	0.1553	0.0397	1.0486e-01	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0484	9.7656e-02	8.1000e-01
116	VPW000005	-0.1200	0.2706	-0.0164	1.0625e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0605	1.0548e-01	8.1000e-01
118	IPW000001	8.1624	14.0194	10.6725	1.3217e+00	8.1004e+00
119	IPW000002	-4.3022	-0.3996	-2.0323	1.3996e+00	8.1000e+00
120	IPW000003	-15.6468	-9.7968	-13.2988	1.3189e+00	8.1007e+00
121	IPW000004	-2.4531	-1.4766	-1.8851	3.0472e-01	2.0001e+00
122	IPW000005	0.1883	1.1647	0.5769	3.1483e-01	2.0000e+00
123	IPW000006	7.3242	10.2539	8.3905	6.4342e-01	2.0011e+00
124	EMPTY	-0.0244	-0.0146	-0.0202	3.1518e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	3.4527e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0173	3.7375e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.5824e-03	0.0000e+00
128	IHT000001	-0.2494	0.1412	-0.1697	1.0486e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1213	1.0806e-01	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2536	1.0409e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1522	8.4860e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.0966	9.2715e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	0.0106	1.1518e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0959	9.6318e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1599	7.9532e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1721	6.9053e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1082	8.7123e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1358	9.7656e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1574	1.1947e-01	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0418	9.3931e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1122	9.3759e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1483	9.8483e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1439	6.4688e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	-0.0359	2.2789e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3710	1.0640e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0241	6.7148e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0955	8.8783e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3408	7.5987e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1559	8.6187e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1354	7.1817e-02	4.1000e+00
151	IHT000024	-0.4806	-0.0900	-0.2255	9.9303e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0950	9.8648e-02	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0478	9.3759e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1156	9.6990e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0067	9.4620e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1234	8.3122e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1273	6.1868e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0907	9.9629e-02	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0239	6.4688e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3725	8.4860e-02	4.1170e+00
161	IHT000034	-0.2753	0.1153	0.0476	1.0204e-01	4.1000e+00
162	IHT000035	-0.1881	0.2025	0.0869	1.0486e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0121	8.9148e-02	4.1000e+00

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Velocity 1 = 0.012300 (ft/sec)

Velocity 2 = 0.076600 (ft/sec)

Pressure Drop = 0.000300 (psi)

Tsat in = 0.063904 (deg F) Tsat out = 0.047501 (deg F)

Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0588	0.0787
1	TRF000002	0.0409	0.0543
2	TFM000001	0.0119	0.0136
3	TIN000001	0.0366	0.0417
4	TRV000001	0.0176	0.0201
5	TSR000001	0.0215	0.0245
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0409	0.0470
8	TAO070136	0.0733	0.0830
9	TAO080136	0.0340	0.0386
10	TAO090136	0.0044	0.0050
11	TAO100136	0.0591	0.0672
12	TAO105136	0.0417	0.0473
13	EMPTY	0.0300	0.0730
14	TAO115136	0.1032	0.1180
15	EMPTY	0.0096	0.0256
16	TAO125136	0.0414	0.0472
17	TAO130136	0.0251	0.0286
18	EMPTY	0.0109	0.0264
19	TAO130048	0.0435	0.0496
20	TAO120224	0.0472	0.0540
21	EMPTY	0.0364	0.0937
22	TAO120312	0.0355	0.0405
23	TAO130312	0.0405	0.0464
24	EMPTY	0.0472	0.1199
25	TRT070000	0.0416	0.0475
26	TRT100000	0.0886	0.1004
27	TRT120000	0.0839	0.0954
28	TRT125000	0.0152	0.0173
29	EMPTY	0.0095	0.0240
30	EMPTY	0.0349	0.0879
31	TAF050136	0.0487	0.0554
32	TAF070136	0.0945	0.1067
33	TAF080136	0.0137	0.0156
34	TAF090136	0.1594	0.1805
35	TAF100136	0.0520	0.0593
36	TAF105136	0.0299	0.0340
37	TAF110136	0.0361	0.0412
38	TAF115136	0.0726	0.0822
39	TAF120136	0.0330	0.0375
40	TAF125136	0.0424	0.0481
41	TAF130136	0.0215	0.0245
42	TAF120048	0.1130	0.1280
43	TAF130048	0.0654	0.0746
44	TAF120224	0.0305	0.0347
45	TAF130224	0.0373	0.0427

#	Name	Abs Diff	%Diff
46	EMPTY	0.0220	0.0578
47	EMPTY	0.0097	0.0248
48	TAI130048	0.0646	0.0733
49	TAI130136	0.0584	0.0667
50	TAI130224	0.0578	0.0656
51	TAI130312	0.0930	0.1062
52	TRR130000	0.1770	0.2028
53	TSI000001	0.0317	0.0396
54	TSI000002	0.1861	0.2608
55	TSO000001	0.0120	0.0176
56	TSO000002	0.0150	0.0185
57	TAF020136	0.0345	0.0394
58	TAF120312	0.0630	0.0837
59	TAF130312	0.0466	0.0534
60	EMPTY	0.0009	0.1848
61	EMPTY	0.0003	0.0597
62	EMPTY	0.0013	0.2523
63	EMPTY	0.0001	0.0188
64	EMPTY	0.0003	0.0905
65	EMPTY	0.0001	0.0284
66	EMPTY	0.0003	0.0818
67	EMPTY	0.0001	0.0259
68	EMPTY	0.0002	0.0500
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0001	0.0230
71	EMPTY	0.0003	0.0655
72	EMPTY	0.0012	0.2542
73	EMPTY	0.0003	0.0611
74	EMPTY	0.0001	0.0197
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0007	0.1302
77	EMPTY	0.0005	0.0897
78	EMPTY	0.0000	0.0000
79	EMPTY	0.0001	0.0165
80	PAN020136	0.0199	0.1813
81	PAN050136	0.0031	0.0153
82	PAN070136	0.0251	0.1925
83	PAN080136	0.0132	0.1835
84	PAN090136	0.0095	0.1404
85	PAN100136	0.0167	0.2548
86	PAN105136	0.0066	0.2533
87	PAN110136	0.0048	0.1493
88	PAN115136	0.0039	0.1380
89	PAN120136	0.0021	0.0537
90	PAN125136	0.0030	0.0855
91	PAN130136	0.0039	0.1113
92	PAN120048	0.0014	0.0186
93	PAN130048	0.0091	0.1299
94	PAN120224	0.0050	0.0744
95	PAN130224	0.0094	0.1331
96	PAN120312	0.0048	0.0724
97	PAN130312	0.0192	0.2708
98	PAB000136	0.0298	0.1114
99	PAB100136	0.0229	0.0792
100	PAB125136	0.0243	0.0823

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0434	0.1643
102	PRV000001	0.0024	0.0116
103	PSR000001	0.0376	0.1271
104	PFM000001	0.0269	0.3523
105	PAN000136	0.0091	0.0108
106	PFM000002	0.1642	2.2221
107	EMPTY	0.0008	114.2857
108	EMPTY	0.0058	0.0581
109	EMPTY	0.0002	66.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0119	15.8035
113	VPW000002	0.0004	2.7027
114	VPW000003	0.0101	20.2811
115	VPW000004	0.0056	13.0841
116	VPW000005	0.0020	10.8696
117	VPW000006	0.0067	9.9702
118	IPW000001	0.0279	0.2607
119	IPW000002	0.2015	9.0205
120	IPW000003	0.0310	0.2336
121	IPW000004	0.0309	1.6127
122	IPW000005	0.0117	1.9878
123	IPW000006	0.0018	0.0215
124	EMPTY	0.0002	0.9804
125	EMPTY	0.0007	5.2632
126	EMPTY	0.0002	1.1696
127	EMPTY	0.0009	5.7325
128	IHT000001	0.0211	11.0587
129	IHT000002	0.0228	15.8223
130	IHT000003	0.0211	7.6811
131	IHT000004	0.0048	3.0573
132	IHT000005	0.0154	13.7500
133	IHT000006	0.0111	2220.0000
134	IHT000007	0.0003	0.3138
135	IHT000008	0.0109	6.3817
136	IHT000009	0.0201	10.4579
137	IHT000010	0.0010	0.9158
138	IHT000011	0.0363	36.4824
139	IHT000012	0.0047	3.0779
140	IHT000013	0.0131	45.6446
141	IHT000014	0.0165	12.8205
142	IHT000015	0.0294	24.7267
143	IHT000016	0.0083	6.1209
144	IHT000017	0.0554	284.1026
145	IHT000018	0.0332	8.2138
146	IHT000019	0.0075	45.1807
147	IHT000020	0.0001	0.1046
148	IHT000021	0.0113	0.3394
149	IHT000022	0.0227	12.7100
150	IHT000023	0.0152	12.6456
151	IHT000024	0.0027	1.2118
152	IHT000025	0.0019	1.9608
153	IHT000026	0.0225	32.0057
154	IHT000027	0.0211	15.4353
155	IHT000028	0.0161	70.6140

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0046	3.5938
157	IHT000030	0.0081	6.7953
158	IHT000031	0.0043	4.5263
159	IHT000032	0.0464	66.0028
160	IHT000033	0.0069	0.0185
161	IHT000034	0.0013	2.6585
162	IHT000035	0.0133	18.0707
163	IHT000036	0.0006	4.7244

Velocity 1 = 4.8512 (ft/sec) (+/- 7.8234 %)
 Velocity 2 = 4.5713 (ft/sec) (+/- 4.4907 %)
 Pressure drop = -4.2274 (psi)
 Tsat in = 240.9481 (deg F) Tsat out = 249.2506 (deg F)
 Phi inner = 0.0007 (kBtu/hr-ft2) (+/- 1843.1146 %)
 Phi outer = 0.0004 (kBtu/hr-ft2) (+/- 377.6363 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3963	74.8213	74.6343	1.5856e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.2269	1.1106e-01	1.9000e+00
2	TFM000001	86.8705	87.4995	87.1809	1.7058e-01	1.9002e+00
3	TIN000001	87.1515	87.7814	87.4999	1.5651e-01	1.9002e+00
4	TRV000001	86.8387	87.5715	87.1738	2.0598e-01	1.9002e+00
5	TSR000001	87.3472	87.9755	87.7701	1.4949e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.3466	87.1831	86.8113	1.8209e-01	1.9002e+00
8	TAO070136	87.7389	88.5801	88.1682	1.8250e-01	1.9002e+00
9	TAO080136	87.5271	88.0503	87.7580	1.4177e-01	1.9002e+00
10	TAO090136	87.1928	87.9260	87.5658	1.6684e-01	1.9002e+00
11	TAO100136	87.3991	88.1329	87.7641	1.3767e-01	1.9002e+00
12	TAO105136	87.6514	88.3857	88.0501	2.0546e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1561	1.1859e-01	1.9011e+00
14	TAO115136	86.9650	87.7012	87.3228	1.8022e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5513	5.5183e-02	1.9009e+00
16	TAO125136	87.4005	87.9244	87.6228	1.3819e-01	1.9002e+00
17	TAO130136	87.3533	87.8748	87.5501	1.3094e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2661	9.8851e-02	1.9011e+00
19	TAO130048	87.2564	87.7803	87.5706	1.4040e-01	1.9002e+00
20	TAO120224	86.8520	87.5860	87.2840	1.6086e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8708	1.3127e-01	1.9010e+00
22	TAO120312	87.1311	87.7604	87.4709	1.6359e-01	1.9002e+00
23	TAO130312	86.8201	87.4489	87.1556	1.4362e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3393	1.8763e-01	1.9010e+00
25	TRT070000	87.0277	87.7650	87.4493	1.7677e-01	1.9002e+00
26	TRT100000	87.7379	88.3663	88.0314	1.8427e-01	1.9002e+00
27	TRT120000	87.4390	88.0678	87.7326	1.4049e-01	1.9002e+00
28	TRT125000	87.4191	88.2532	87.7608	1.6462e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6011	7.3182e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6975	1.9119e-01	1.9011e+00
31	TAF050136	87.4779	88.0016	87.7586	1.2937e-01	1.9002e+00
32	TAF070136	87.9700	88.6995	88.3617	1.7701e-01	1.9002e+00
33	TAF080136	87.3710	88.1017	87.6762	1.4904e-01	1.9002e+00
34	TAF090136	87.5458	88.4887	88.0111	2.7839e-01	1.9002e+00
35	TAF100136	87.1056	87.8399	87.5211	1.5573e-01	1.9002e+00
36	TAF105136	87.3815	88.3201	87.7739	2.2029e-01	1.9002e+00
37	TAF110136	87.0669	87.7994	87.5063	1.6918e-01	1.9002e+00
38	TAF115136	87.7427	88.3713	88.0613	1.4953e-01	1.9002e+00
39	TAF120136	87.4187	87.8383	87.6788	1.0862e-01	1.9002e+00
40	TAF125136	87.6926	88.1121	87.9068	1.2304e-01	1.9002e+00
41	TAF130136	87.4941	87.9137	87.7501	1.1448e-01	1.9002e+00
42	TAF120048	87.7151	88.4534	88.0947	1.8307e-01	1.9002e+00
43	TAF130048	87.3132	87.7328	87.5649	1.1219e-01	1.9002e+00
44	TAF120224	87.4280	88.1618	87.8348	1.7017e-01	1.9002e+00
45	TAF130224	86.9538	87.4792	87.2140	1.1669e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1905	2.0437e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3485	1.1017e-01	1.9010e+00
48	TAI130048	87.5094	88.5576	87.9791	2.5783e-01	1.9002e+00
49	TAI130136	86.9271	87.6600	87.3208	1.7376e-01	1.9002e+00
50	TAI130224	87.3736	88.4242	88.0165	2.4893e-01	1.9002e+00
51	TAI130312	86.9855	87.7203	87.3971	1.8346e-01	1.9002e+00
52	TRR130000	86.6535	87.5958	87.0934	2.3922e-01	1.9002e+00
53	TSI000001	79.8292	80.3565	80.0614	1.2048e-01	1.9001e+00
54	TSI000002	70.8298	71.6793	71.2801	2.3831e-01	1.9000e+00
55	TSO000001	67.7672	68.5171	68.1359	1.9579e-01	1.9000e+00
56	TSO000002	80.4233	81.2670	80.8705	1.6024e-01	1.9001e+00
57	TAF020136	86.9819	87.7192	87.2937	1.4746e-01	1.9002e+00
58	TAF120312	74.5334	75.5926	75.2071	2.5024e-01	1.9000e+00
59	TAF130312	86.7205	87.4545	87.0729	1.8310e-01	1.9002e+00
60	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
61	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
62	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5281	1.8082e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3287	2.3008e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3503	2.1635e-03	0.0000e+00
66	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3855	9.6655e-04	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3969	2.2146e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4151	6.9053e-04	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4324	2.4484e-03	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4545	1.3381e-03	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4886	1.1714e-03	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5036	1.7115e-03	0.0000e+00
75	EMPTY	0.5176	0.5273	0.5225	9.8648e-04	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5567	6.9053e-04	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5806	1.4797e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6037	2.3675e-03	0.0000e+00
80	PAN020136	-15.0797	-14.7745	-14.9454	6.4591e-02	8.7080e-01
81	PAN050136	-28.1944	-27.7366	-27.9564	1.2392e-01	1.6815e+00
82	PAN070136	-18.6800	-18.2985	-18.4862	7.4258e-02	8.7123e-01
83	PAN080136	-9.8212	-9.5161	-9.6488	7.5212e-02	8.7033e-01
84	PAN090136	-9.4309	-9.2020	-9.3149	7.5888e-02	8.7031e-01
85	PAN100136	-9.3209	-9.1683	-9.2141	5.1121e-02	8.7030e-01
86	PAN105136	-4.4213	-4.1924	-4.3008	6.1828e-02	8.7007e-01
87	PAN110136	-4.8145	-4.5856	-4.6726	5.7693e-02	8.7008e-01
88	PAN115136	-4.3141	-4.0853	-4.1676	6.1346e-02	8.7006e-01
89	PAN120136	-5.3338	-5.0287	-5.1950	6.8396e-02	8.7010e-01
90	PAN125136	-4.8072	-4.5783	-4.6638	8.2489e-02	8.7008e-01
91	PAN130136	-4.8380	-4.6091	-4.7434	5.8815e-02	8.7008e-01
92	PAN120048	-10.2569	-10.0280	-10.1501	5.1121e-02	8.7037e-01
93	PAN130048	-9.6085	-9.3033	-9.4711	6.5395e-02	8.7032e-01
94	PAN120224	-9.3298	-9.1772	-9.2733	5.0678e-02	8.7031e-01
95	PAN130224	-9.5072	-9.2783	-9.3928	7.4322e-02	8.7032e-01
96	PAN120312	-9.2329	-9.0040	-9.1398	7.4386e-02	8.7030e-01
97	PAN130312	-9.5571	-9.3282	-9.4030	6.2592e-02	8.7032e-01
98	PAB000136	25.3663	25.5036	25.4239	3.3100e-02	5.8347e-01
99	PAB100136	28.4368	28.5742	28.5202	4.2067e-02	5.8437e-01
100	PAB125136	29.3039	29.4412	29.3863	4.4353e-02	5.8463e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	25.2492	25.2492	25.2492	1.9267e-05	7.5265e-01
102	PRV000001	20.6598	20.7819	20.7233	6.1605e-02	7.5179e-01
103	PSR000001	29.5968	29.7189	29.6261	5.2663e-02	7.5365e-01
104	PFM000001	3.3734	3.7397	3.5657	7.9017e-02	5.0008e-01
105	PAN000136	-117.4684	-116.5529	-117.0382	1.4357e-01	4.9287e+00
106	PFM000002	2.9361	3.5402	3.1586	1.4116e-01	2.0016e-01
107	EMPTY	-0.0049	0.0049	-0.0029	2.7902e-03	0.0000e+00
108	EMPTY	-10.0000	-9.2676	-9.9575	1.5060e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0909	9.5357e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0164	7.2866e-02	8.1000e-01
114	VPW000003	-0.0400	0.1553	0.0225	9.2034e-02	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0663	9.8569e-02	8.1000e-01
116	VPW000005	-0.1200	0.2706	-0.0302	1.0595e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0672	1.0763e-01	8.1000e-01
118	IPW000001	-17.2181	-13.3134	-15.9296	1.2227e+00	8.1010e+00
119	IPW000002	5.4542	13.2593	9.5909	1.4015e+00	8.1004e+00
120	IPW000003	17.5032	21.4032	19.2972	1.1713e+00	8.1014e+00
121	IPW000004	-2.9414	-1.4766	-2.2480	2.9742e-01	2.0001e+00
122	IPW000005	-1.7647	-0.7882	-1.4131	3.1254e-01	2.0000e+00
123	IPW000006	-18.5547	-17.0898	-17.8125	3.9754e-01	2.0049e+00
124	EMPTY	-0.0293	-0.0098	-0.0212	4.1397e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0134	2.9280e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0185	3.3146e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0153	3.1211e-03	0.0000e+00
128	IHT000001	-0.2494	-0.0541	-0.1556	9.8569e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1050	8.6810e-02	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2513	1.0440e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1492	8.6541e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.0925	6.7888e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0044	1.0106e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0878	7.8523e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1473	6.8459e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1727	6.8459e-02	4.1000e+00
137	IHT000010	-0.1600	0.2306	-0.1131	9.3043e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1152	9.4125e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1761	1.1334e-01	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0483	9.5765e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1131	1.0106e-01	4.1000e+00
142	IHT000015	-0.2400	0.1506	-0.1462	1.0617e-01	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1552	8.5454e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0742	2.3639e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3730	1.1334e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0166	8.4997e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0995	9.2456e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3334	9.1354e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1747	9.6976e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1241	8.2393e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2150	9.4702e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0695	9.5765e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0586	9.0412e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1328	9.2034e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0189	9.9902e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1241	9.1354e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1153	6.8345e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1106	1.0440e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0391	7.8918e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3833	9.0412e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0450	1.0992e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.1009	1.2627e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0009	8.8233e-02	4.1000e+00

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Velocity 1 = 4.8489 (ft/sec) (+/- 7.8297 %)
Velocity 2 = 4.6144 (ft/sec) (+/- 4.4567 %)
Pressure drop = -4.2274 (psi)
Tsats in = 240.9486 (deg F) Tsats out = 249.2612 (deg F)
Phi inner = 0.0005 (kBtu/hr-ft2) (+/- 2366.1953 %)
Phi outer = 0.0004 (kBtu/hr-ft2) (+/- 398.5764 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	75.0338	74.6218	1.7570e-01	1.9000e+00
1	TRF000002	75.1508	75.5736	75.2543	1.1517e-01	1.9000e+00
2	TFM000001	86.7659	87.8139	87.2107	2.2377e-01	1.9002e+00
3	TIN000001	87.2562	87.8863	87.5177	1.6756e-01	1.9002e+00
4	TRV000001	86.8387	87.6766	87.2062	1.8993e-01	1.9002e+00
5	TSR000001	87.5555	88.0806	87.7936	1.3822e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.2413	87.2882	86.8122	2.2207e-01	1.9002e+00
8	TAO070136	87.8444	88.5801	88.1790	2.1097e-01	1.9002e+00
9	TAO080136	87.4234	88.0518	87.7563	1.5203e-01	1.9002e+00
10	TAO090136	87.0876	88.0307	87.6331	1.9125e-01	1.9002e+00
11	TAO100136	87.2940	88.0286	87.7843	1.4581e-01	1.9002e+00
12	TAO105136	87.5462	88.3857	88.0710	1.7530e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1082	1.2431e-01	1.9011e+00
14	TAO115136	86.8598	87.8063	87.3472	2.3489e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5656	7.6185e-02	1.9010e+00
16	TAO125136	87.2953	88.0295	87.6401	1.5860e-01	1.9002e+00
17	TAO130136	87.0416	87.8748	87.5162	1.5362e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2392	7.5888e-02	1.9011e+00
19	TAO130048	87.2564	87.8854	87.5727	1.5343e-01	1.9002e+00
20	TAO120224	86.8515	87.6907	87.3248	1.3400e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8933	9.6616e-02	1.9010e+00
22	TAO120312	87.1306	87.8651	87.5270	1.7435e-01	1.9002e+00
23	TAO130312	86.8196	87.5536	87.1859	1.5883e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3386	1.8361e-01	1.9010e+00
25	TRT070000	86.9225	87.8697	87.4492	1.9103e-01	1.9002e+00
26	TRT100000	87.6336	88.4701	88.0523	1.7477e-01	1.9002e+00
27	TRT120000	87.4385	88.1725	87.7663	1.5815e-01	1.9002e+00
28	TRT125000	87.4186	88.2532	87.8039	1.7987e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6010	7.3938e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6806	1.7772e-01	1.9011e+00
31	TAF050136	87.3728	88.2104	87.7643	1.6243e-01	1.9002e+00
32	TAF070136	88.0731	88.9091	88.4398	2.0332e-01	1.9002e+00
33	TAF080136	87.3710	88.1017	87.7163	1.6126e-01	1.9002e+00
34	TAF090136	87.6506	88.6984	88.1380	2.1009e-01	1.9002e+00
35	TAF100136	87.2103	87.9450	87.5316	1.6787e-01	1.9002e+00
36	TAF105136	87.3815	88.3201	87.7819	2.2936e-01	1.9002e+00
37	TAF110136	87.1721	88.0081	87.5152	1.7222e-01	1.9002e+00
38	TAF115136	87.6386	88.4759	88.1019	1.9937e-01	1.9002e+00
39	TAF120136	87.4182	88.1518	87.6990	1.3928e-01	1.9002e+00
40	TAF125136	87.4839	88.3202	87.9473	1.5252e-01	1.9002e+00
41	TAF130136	87.4937	88.0188	87.7617	1.1746e-01	1.9002e+00
42	TAF120048	87.6100	88.6630	88.0959	2.3134e-01	1.9002e+00
43	TAF130048	87.3127	87.8379	87.5764	1.2330e-01	1.9002e+00
44	TAF120224	87.4280	88.2669	87.8217	2.0693e-01	1.9002e+00
45	TAF130224	86.9533	87.4787	87.2214	1.1752e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.2085	2.6476e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2917	1.1185e-01	1.9010e+00
48	TAI130048	87.1946	88.5576	87.9052	3.2332e-01	1.9002e+00
49	TAI130136	86.9271	87.7646	87.3373	1.9203e-01	1.9002e+00
50	TAI130224	87.3735	88.4238	87.9459	2.5909e-01	1.9002e+00
51	TAI130312	86.8807	87.7203	87.3712	2.1467e-01	1.9002e+00
52	TRR130000	86.6535	87.5958	87.1024	2.3896e-01	1.9002e+00
53	TSI000001	79.5128	80.4623	80.0317	1.7065e-01	1.9001e+00
54	TSI000002	70.8298	71.8913	71.3499	2.5746e-01	1.9000e+00
55	TSO000001	67.7683	68.5161	68.1630	1.6210e-01	1.9000e+00
56	TSO000002	80.4228	81.3722	80.8473	1.9674e-01	1.9001e+00
57	TAF020136	86.9819	87.6145	87.2956	1.6307e-01	1.9002e+00
58	TAF120312	74.6392	75.8042	75.2402	2.7205e-01	1.9000e+00
59	TAF130312	86.8248	87.4545	87.1100	1.5294e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4835	6.9754e-04	0.0000e+00
61	EMPTY	0.4980	0.5029	0.4985	1.4934e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5124	1.1827e-03	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5285	2.1215e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3283	2.1215e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3499	2.3483e-03	0.0000e+00
66	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3848	1.9103e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3980	2.4662e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4154	1.3508e-03	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4323	2.4621e-03	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4552	2.0584e-03	0.0000e+00
72	EMPTY	0.4639	0.4736	0.4690	1.8400e-03	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4884	6.9754e-04	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5039	1.9883e-03	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5226	6.9754e-04	0.0000e+00
76	EMPTY	0.5371	0.5420	0.5372	6.9754e-04	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5564	9.7615e-04	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5807	1.3508e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6040	2.2737e-03	0.0000e+00
80	PAN020136	-15.0797	-14.7745	-14.9396	7.5249e-02	8.7080e-01
81	PAN050136	-28.1944	-27.7366	-27.9764	1.1230e-01	1.6815e+00
82	PAN070136	-18.6037	-18.2985	-18.4916	6.8065e-02	8.7123e-01
83	PAN080136	-9.8212	-9.5161	-9.6562	7.6843e-02	8.7033e-01
84	PAN090136	-9.4309	-9.2020	-9.3141	7.4853e-02	8.7031e-01
85	PAN100136	-9.3209	-9.0920	-9.2399	5.2601e-02	8.7031e-01
86	PAN105136	-4.4213	-4.1924	-4.2859	6.6558e-02	8.7007e-01
87	PAN110136	-4.8145	-4.5093	-4.6557	7.1089e-02	8.7008e-01
88	PAN115136	-4.3141	-4.0853	-4.1833	5.1651e-02	8.7006e-01
89	PAN120136	-5.3338	-5.1050	-5.2108	6.9326e-02	8.7010e-01
90	PAN125136	-4.8072	-4.5783	-4.6749	7.7517e-02	8.7008e-01
91	PAN130136	-4.9143	-4.6091	-4.7352	6.8860e-02	8.7008e-01
92	PAN120048	-10.2569	-10.0280	-10.1604	5.7801e-02	8.7037e-01
93	PAN130048	-9.6085	-9.3033	-9.4652	6.7224e-02	8.7032e-01
94	PAN120224	-9.3298	-9.1772	-9.2737	4.3426e-02	8.7031e-01
95	PAN130224	-9.5072	-9.2783	-9.3951	7.3215e-02	8.7032e-01
96	PAN120312	-9.3092	-9.0803	-9.1519	6.6817e-02	8.7030e-01
97	PAN130312	-9.5571	-9.3282	-9.4014	6.4134e-02	8.7032e-01
98	PAB000136	25.3663	25.5036	25.4242	3.8271e-02	5.8347e-01
99	PAB100136	28.4826	28.6199	28.5303	3.9599e-02	5.8437e-01
100	PAB125136	29.3497	29.4412	29.3917	4.1617e-02	5.8464e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	25.2492	25.2492	25.2492	1.7344e-05	7.5265e-01
102	PRV000001	20.6598	20.7819	20.7221	6.1655e-02	7.5179e-01
103	PSR000001	29.5968	29.7189	29.6142	4.3158e-02	7.5365e-01
104	PFM000001	3.4650	3.7397	3.5622	7.3357e-02	5.0008e-01
105	PAN000136	-117.4684	-117.0107	-117.0388	1.1088e-01	4.9287e+00
106	PFM000002	2.9361	3.5402	3.2197	1.2198e-01	2.0016e-01
107	EMPTY	-0.0049	0.0049	-0.0031	2.5787e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4238	-9.9573	1.4141e-01	0.0000e+00
109	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.1032	8.9148e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0326	1.0548e-01	8.1000e-01
114	VPW000003	-0.0400	0.1553	0.0357	9.6150e-02	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0643	9.8648e-02	8.1000e-01
116	VPW000005	-0.1200	0.0753	-0.0044	9.6990e-02	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0326	1.0548e-01	8.1000e-01
118	IPW000001	-17.2181	-13.3134	-15.3455	1.2577e+00	8.1009e+00
119	IPW000002	7.4055	13.2593	8.9187	1.3369e+00	8.1003e+00
120	IPW000003	17.5032	21.4032	19.2940	1.1832e+00	8.1014e+00
121	IPW000004	-2.4531	-1.4766	-1.8951	1.9934e-01	2.0001e+00
122	IPW000005	-1.7647	-0.7882	-1.2366	3.7071e-01	2.0000e+00
123	IPW000006	-18.0664	-17.0898	-17.5582	3.4468e-01	2.0048e+00
124	EMPTY	-0.0293	-0.0146	-0.0214	3.4261e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.3953e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0179	3.6469e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0152	3.6801e-03	0.0000e+00
128	IHT000001	-0.2494	0.1412	-0.1776	1.0315e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1532	1.1546e-01	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2616	1.0955e-01	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1641	9.4962e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1166	1.1518e-01	4.1000e+00
133	IHT000006	-0.1528	0.2378	0.0026	8.8965e-02	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0959	6.7148e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1917	9.5132e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1641	8.6187e-02	4.1000e+00
137	IHT000010	-0.3553	0.0353	-0.1201	8.8965e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1079	7.9736e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1534	8.6187e-02	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0418	9.3931e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1361	9.4620e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1364	9.8483e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1559	7.6412e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0757	2.2839e-01	4.1000e+00
145	IHT000018	0.2753	0.4706	0.3670	9.8483e-02	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0161	7.5986e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0995	7.4477e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3408	7.5987e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1798	9.0949e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1194	7.6412e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2176	9.3931e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0830	9.8153e-02	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0598	9.9303e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1315	9.2540e-02	4.1000e+00
155	IHT000028	-0.1647	0.4213	0.0346	1.0911e-01	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1354	9.1305e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1273	8.3705e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0748	1.1044e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0678	9.3931e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3885	9.2540e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0555	1.0701e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1188	1.1960e-01	4.1000e+00
163	IHT000036	-0.2353	0.3506	-0.0121	1.1276e-01	4.1000e+00

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Velocity 1 = 0.002300 (ft/sec)

Velocity 2 = 0.043100 (ft/sec)

Pressure Drop = 0.000000 (psi)

Tsat in = 0.000488 (deg F) Tsat out = 0.010605 (deg F)

Phi inner = 0.000200 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0125	0.0167
1	TRF000002	0.0274	0.0364
2	TFM000001	0.0298	0.0342
3	TIN000001	0.0178	0.0203
4	TRV000001	0.0324	0.0372
5	TSR000001	0.0235	0.0268
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0009	0.0010
8	TAO070136	0.0108	0.0123
9	TAO080136	0.0017	0.0019
10	TAO090136	0.0673	0.0769
11	TAO100136	0.0202	0.0230
12	TAO105136	0.0209	0.0237
13	EMPTY	0.0479	0.1164
14	TAO115136	0.0244	0.0279
15	EMPTY	0.0143	0.0381
16	TAO125136	0.0173	0.0197
17	TAO130136	0.0339	0.0387
18	EMPTY	0.0269	0.0652
19	TAO130048	0.0021	0.0024
20	TAO120224	0.0408	0.0467
21	EMPTY	0.0225	0.0579
22	TAO120312	0.0561	0.0641
23	TAO130312	0.0303	0.0348
24	EMPTY	0.0007	0.0018
25	TRT070000	0.0001	0.0001
26	TRT100000	0.0209	0.0237
27	TRT120000	0.0337	0.0384
28	TRT125000	0.0431	0.0491
29	EMPTY	0.0001	0.0003
30	EMPTY	0.0169	0.0426
31	TAF050136	0.0057	0.0065
32	TAF070136	0.0781	0.0884
33	TAF080136	0.0401	0.0457
34	TAF090136	0.1269	0.1442
35	TAF100136	0.0105	0.0120
36	TAF105136	0.0080	0.0091
37	TAF110136	0.0089	0.0102
38	TAF115136	0.0406	0.0461
39	TAF120136	0.0202	0.0230
40	TAF125136	0.0405	0.0461
41	TAF130136	0.0116	0.0132
42	TAF120048	0.0012	0.0014
43	TAF130048	0.0115	0.0131
44	TAF120224	0.0131	0.0149
45	TAF130224	0.0074	0.0085

#	Name	Abs Diff	%Diff
46	EMPTY	0.0180	0.0471
47	EMPTY	0.0568	0.1444
48	TAI130048	0.0739	0.0840
49	TAI130136	0.0165	0.0189
50	TAI130224	0.0706	0.0802
51	TAI130312	0.0259	0.0296
52	TRR130000	0.0090	0.0103
53	TSI000001	0.0297	0.0371
54	TSI000002	0.0698	0.0979
55	TSO000001	0.0271	0.0398
56	TSO000002	0.0232	0.0287
57	TAF020136	0.0019	0.0022
58	TAF120312	0.0331	0.0440
59	TAF130312	0.0371	0.0426
60	EMPTY	0.0001	0.0207
61	EMPTY	0.0002	0.0401
62	EMPTY	0.0003	0.0585
63	EMPTY	0.0004	0.0757
64	EMPTY	0.0004	0.1217
65	EMPTY	0.0004	0.1142
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0007	0.1816
68	EMPTY	0.0011	0.2771
69	EMPTY	0.0003	0.0723
70	EMPTY	0.0001	0.0231
71	EMPTY	0.0007	0.1540
72	EMPTY	0.0002	0.0427
73	EMPTY	0.0002	0.0409
74	EMPTY	0.0003	0.0596
75	EMPTY	0.0001	0.0191
76	EMPTY	0.0002	0.0372
77	EMPTY	0.0003	0.0539
78	EMPTY	0.0001	0.0172
79	EMPTY	0.0003	0.0497
80	PAN020136	0.0058	0.0388
81	PAN050136	0.0200	0.0715
82	PAN070136	0.0054	0.0292
83	PAN080136	0.0074	0.0767
84	PAN090136	0.0008	0.0086
85	PAN100136	0.0258	0.2800
86	PAN105136	0.0149	0.3464
87	PAN110136	0.0169	0.3617
88	PAN115136	0.0157	0.3767
89	PAN120136	0.0158	0.3041
90	PAN125136	0.0111	0.2380
91	PAN130136	0.0082	0.1729
92	PAN120048	0.0103	0.1015
93	PAN130048	0.0059	0.0623
94	PAN120224	0.0004	0.0043
95	PAN130224	0.0023	0.0245
96	PAN120312	0.0121	0.1324
97	PAN130312	0.0016	0.0170
98	PAB000136	0.0003	0.0012
99	PAB100136	0.0101	0.0354
100	PAB125136	0.0054	0.0184

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0000	0.0000
102	PRV000001	0.0012	0.0058
103	PSR000001	0.0119	0.0402
104	PFM000001	0.0035	0.0982
105	PAN000136	0.0006	0.0005
106	PFM000002	0.0611	1.9344
107	EMPTY	0.0002	6.8966
108	EMPTY	0.0002	0.0020
109	EMPTY	0.0002	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	50.0000
112	VPW000001	0.0123	13.5314
113	VPW000002	0.0162	98.7805
114	VPW000003	0.0132	58.6667
115	VPW000004	0.0020	3.0166
116	VPW000005	0.0258	85.4305
117	VPW000006	0.0346	51.4881
118	IPW000001	0.5841	3.6668
119	IPW000002	0.6722	7.0087
120	IPW000003	0.0032	0.0166
121	IPW000004	0.3529	15.6984
122	IPW000005	0.1765	12.4903
123	IPW000006	0.2543	1.4276
124	EMPTY	0.0002	0.9434
125	EMPTY	0.0000	0.0000
126	EMPTY	0.0006	3.2432
127	EMPTY	0.0001	0.6536
128	IHT000001	0.0220	14.1388
129	IHT000002	0.0482	45.9048
130	IHT000003	0.0103	4.0987
131	IHT000004	0.0149	9.9866
132	IHT000005	0.0241	26.0541
133	IHT000006	0.0070	159.0909
134	IHT000007	0.0081	9.2255
135	IHT000008	0.0444	30.1426
136	IHT000009	0.0086	4.9797
137	IHT000010	0.0070	6.1892
138	IHT000011	0.0073	6.3368
139	IHT000012	0.0227	12.8904
140	IHT000013	0.0065	13.4576
141	IHT000014	0.0230	20.3360
142	IHT000015	0.0098	6.7031
143	IHT000016	0.0007	0.4510
144	IHT000017	0.0015	2.0216
145	IHT000018	0.0060	1.6086
146	IHT000019	0.0005	3.0120
147	IHT000020	0.0000	0.0000
148	IHT000021	0.0074	0.2220
149	IHT000022	0.0051	2.9193
150	IHT000023	0.0047	3.7873
151	IHT000024	0.0026	1.2093
152	IHT000025	0.0135	19.4245
153	IHT000026	0.0012	2.0478
154	IHT000027	0.0013	0.9789
155	IHT000028	0.0157	83.0688

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0113	9.1056
157	IHT000030	0.0120	10.4076
158	IHT000031	0.0358	32.3689
159	IHT000032	0.0287	73.4015
160	IHT000033	0.0052	0.0139
161	IHT000034	0.0105	23.3333
162	IHT000035	0.0179	17.7403
163	IHT000036	0.0112	1244.4445

Velocity 1 = 3.0097 (ft/sec) (+/- 18.9635 %)
Velocity 2 = 2.5852 (ft/sec) (+/- 9.8211 %)
Pressure drop = -4.9252 (psi)
Tsats in = 239.3214 (deg F) Tsats out = 249.1477 (deg F)
Phi inner = 0.0008 (kBtu/hr-ft2) (+/- 1615.4000 %)
Phi outer = 0.0004 (kBtu/hr-ft2) (+/- 172.7680 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3963	74.8213	74.6258	1.7087e-01	1.9000e+00
1	TRF000002	74.9393	75.5736	75.2353	1.2814e-01	1.9000e+00
2	TFM000001	86.7659	87.6037	87.2395	1.9314e-01	1.9002e+00
3	TIN000001	87.1515	87.8866	87.5545	1.8041e-01	1.9002e+00
4	TRV000001	86.8387	87.7803	87.2156	1.9134e-01	1.9002e+00
5	TSR000001	87.3472	87.9755	87.7409	1.5481e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.2418	87.1835	86.7736	2.3334e-01	1.9002e+00
8	TAO070136	87.7397	88.5801	88.1261	2.0859e-01	1.9002e+00
9	TAO080136	87.3188	88.1549	87.7330	1.8532e-01	1.9002e+00
10	TAO090136	86.9835	87.9260	87.5365	2.1477e-01	1.9002e+00
11	TAO100136	87.3991	88.1329	87.7682	1.5314e-01	1.9002e+00
12	TAO105136	87.6514	88.3857	88.0878	2.0035e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1286	1.3704e-01	1.9011e+00
14	TAO115136	86.8598	87.7012	87.3059	2.2841e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5513	5.5183e-02	1.9009e+00
16	TAO125136	87.2958	87.9244	87.5936	1.4569e-01	1.9002e+00
17	TAO130136	87.1468	87.7697	87.4922	1.4693e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2982	1.1235e-01	1.9011e+00
19	TAO130048	87.2564	87.7803	87.4870	1.6253e-01	1.9002e+00
20	TAO120224	86.8520	87.4812	87.2881	1.3794e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8892	1.1022e-01	1.9010e+00
22	TAO120312	87.1311	87.7604	87.4667	1.5433e-01	1.9002e+00
23	TAO130312	86.8201	87.4489	87.0971	1.4176e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3531	1.8115e-01	1.9010e+00
25	TRT070000	87.0277	87.7650	87.4197	1.5333e-01	1.9002e+00
26	TRT100000	87.6336	88.5752	88.0063	1.9507e-01	1.9002e+00
27	TRT120000	87.4390	88.0678	87.7242	1.5858e-01	1.9002e+00
28	TRT125000	87.3139	88.2532	87.7233	1.9778e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5689	1.0738e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6745	1.9811e-01	1.9011e+00
31	TAF050136	87.4779	88.0016	87.7711	1.5256e-01	1.9002e+00
32	TAF070136	87.9685	88.8041	88.3700	1.7941e-01	1.9002e+00
33	TAF080136	87.2664	87.8939	87.6762	1.6999e-01	1.9002e+00
34	TAF090136	87.5463	88.5933	88.0781	2.6911e-01	1.9002e+00
35	TAF100136	87.1056	87.8403	87.5252	1.7613e-01	1.9002e+00
36	TAF105136	87.2768	88.2155	87.7864	2.2444e-01	1.9002e+00
37	TAF110136	87.1710	87.7994	87.5313	1.4832e-01	1.9002e+00
38	TAF115136	87.6381	88.4759	88.0236	1.9445e-01	1.9002e+00
39	TAF120136	87.4187	88.0467	87.6913	1.3725e-01	1.9002e+00
40	TAF125136	87.4844	88.2151	87.9234	1.5819e-01	1.9002e+00
41	TAF130136	87.4942	87.9137	87.7501	1.2390e-01	1.9002e+00
42	TAF120048	87.6100	88.4529	88.0693	2.2193e-01	1.9002e+00
43	TAF130048	87.2082	87.7328	87.5607	1.3028e-01	1.9002e+00
44	TAF120224	87.4280	88.1618	87.8347	2.1552e-01	1.9002e+00
45	TAF130224	86.9538	87.3735	87.2097	1.2397e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1675	1.7260e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3164	1.2106e-01	1.9010e+00
48	TAI130048	87.5094	88.4531	87.9749	2.7950e-01	1.9002e+00
49	TAI130136	87.0313	87.6600	87.3333	1.6337e-01	1.9002e+00
50	TAI130224	87.4786	88.3192	87.9114	2.3022e-01	1.9002e+00
51	TAI130312	86.9854	87.7203	87.3089	1.5707e-01	1.9002e+00
52	TRR130000	86.3395	87.5958	87.1227	2.2806e-01	1.9002e+00
53	TSI000001	79.7239	80.3565	80.0403	1.5658e-01	1.9001e+00
54	TSI000002	70.9359	71.7853	71.3946	2.4301e-01	1.9000e+00
55	TSO000001	67.8751	68.6234	68.1487	1.7570e-01	1.9000e+00
56	TSO000002	80.2122	81.0561	80.6679	2.0497e-01	1.9001e+00
57	TAF020136	86.8772	87.7192	87.3570	1.8923e-01	1.9002e+00
58	TAF120312	74.7452	75.8042	75.1858	2.6923e-01	1.9000e+00
59	TAF130312	86.6158	87.4545	87.1022	2.0834e-01	1.9002e+00
60	EMPTY	0.4785	0.4883	0.4837	1.5314e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
62	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5286	2.1635e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3282	2.0432e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3498	2.3675e-03	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3663	6.9053e-04	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3850	1.8082e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3966	2.0432e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4151	6.9053e-04	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4314	2.3675e-03	0.0000e+00
71	EMPTY	0.4492	0.4590	0.4541	9.8648e-04	0.0000e+00
72	EMPTY	0.4639	0.4736	0.4688	1.2041e-03	0.0000e+00
73	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
74	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5224	6.9053e-04	0.0000e+00
76	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
77	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5801	1.9730e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6027	2.4484e-03	0.0000e+00
80	PAN020136	-17.4448	-17.1396	-17.2678	6.6189e-02	8.7107e-01
81	PAN050136	-32.7720	-32.3143	-32.5035	1.0018e-01	1.6820e+00
82	PAN070136	-21.8080	-21.5792	-21.6936	4.4272e-02	8.7169e-01
83	PAN080136	-11.1182	-10.8893	-11.0297	6.4222e-02	8.7044e-01
84	PAN090136	-10.8805	-10.6516	-10.7538	5.8916e-02	8.7042e-01
85	PAN100136	-10.8468	-10.6179	-10.7247	5.1121e-02	8.7041e-01
86	PAN105136	-5.3368	-5.1843	-5.2514	5.4800e-02	8.7010e-01
87	PAN110136	-5.6537	-5.3485	-5.5423	6.9293e-02	8.7011e-01
88	PAN115136	-5.1534	-4.9245	-4.9947	7.0365e-02	8.7009e-01
89	PAN120136	-6.0205	-5.7153	-5.9030	6.3944e-02	8.7013e-01
90	PAN125136	-5.4939	-5.2650	-5.3947	5.3948e-02	8.7010e-01
91	PAN130136	-5.5246	-5.2958	-5.4300	5.6759e-02	8.7011e-01
92	PAN120048	-11.8591	-11.5539	-11.6745	6.1828e-02	8.7049e-01
93	PAN130048	-10.9818	-10.8292	-10.8841	5.7755e-02	8.7043e-01
94	PAN120224	-11.0082	-10.7031	-10.8679	6.4222e-02	8.7042e-01
95	PAN130224	-10.9568	-10.7279	-10.9019	5.5660e-02	8.7043e-01
96	PAN120312	-10.8350	-10.6824	-10.7572	5.8673e-02	8.7042e-01
97	PAN130312	-11.0067	-10.7778	-10.8861	5.3594e-02	8.7043e-01
98	PAB000136	24.5881	24.8170	24.7025	6.5558e-02	5.8328e-01
99	PAB100136	28.2080	28.4368	28.3178	6.5395e-02	5.8430e-01
100	PAB125136	29.2123	29.4412	29.3341	6.0369e-02	5.8462e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.3947	24.5168	24.4826	5.5366e-02	7.5249e-01
102	PRV000001	20.6598	20.7819	20.7062	5.9853e-02	7.5178e-01
103	PSR000001	29.5968	29.7189	29.6725	5.9853e-02	7.5366e-01
104	PFM000001	1.2677	1.4508	1.3410	6.9207e-02	5.0001e-01
105	PAN000136	-136.6945	-136.2368	-136.3558	2.0283e-01	4.9318e+00
106	PFM000002	0.8387	1.0904	0.9796	6.4944e-02	2.0001e-01
107	EMPTY	-0.0049	0.0049	-0.0037	2.3261e-03	0.0000e+00
108	EMPTY	-10.0000	-9.1797	-9.9679	1.3355e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0002	1.3811e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0909	6.6498e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0047	7.8918e-02	8.1000e-01
114	VPW000003	-0.0400	0.3506	0.0381	1.0440e-01	8.1000e-01
115	VPW000004	-0.2306	0.3553	0.0545	1.1975e-01	8.1000e-01
116	VPW000005	-0.1200	0.2706	-0.0184	1.0617e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0633	1.3235e-01	8.1000e-01
118	IPW000001	-17.2181	-13.3134	-16.0077	1.1079e+00	8.1010e+00
119	IPW000002	9.3567	13.2593	11.7763	1.2811e+00	8.1005e+00
120	IPW000003	17.5032	21.4032	19.5312	1.2433e+00	8.1015e+00
121	IPW000004	-3.4297	-2.4531	-2.9707	2.4976e-01	2.0001e+00
122	IPW000005	-1.7647	-0.7882	-1.4131	3.2774e-01	2.0000e+00
123	IPW000006	-18.5547	-17.0898	-17.8809	4.0542e-01	2.0050e+00
124	EMPTY	-0.0244	-0.0146	-0.0201	3.0628e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.9280e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	3.3829e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	3.6911e-03	0.0000e+00
128	IHT000001	-0.4447	-0.0541	-0.1947	1.1189e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1597	1.0992e-01	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2630	1.0145e-01	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1805	9.8648e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1355	1.0297e-01	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0161	9.8648e-02	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.1269	9.3043e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1786	9.8648e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.2000	7.8918e-02	4.1000e+00
137	IHT000010	-0.3553	0.0353	-0.1053	1.0470e-01	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.0956	8.6810e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1487	9.9512e-02	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0248	9.5112e-02	4.1000e+00
141	IHT000014	-0.1600	0.0353	-0.1014	9.0412e-02	4.1000e+00
142	IHT000015	-0.2400	0.1506	-0.1306	1.0559e-01	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1356	6.6498e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0469	2.4503e-01	4.1000e+00
145	IHT000018	0.2753	0.4706	0.3847	9.7935e-02	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0322	3.8662e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0956	8.7880e-02	4.1000e+00
148	IHT000021	3.1694	3.3647	3.3412	6.4113e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.2059	9.7935e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1202	7.5798e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2345	8.6541e-02	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.0773	1.1223e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0781	1.0440e-01	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1484	8.4262e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0228	8.7880e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1202	1.0206e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1192	9.2456e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1145	1.1497e-01	4.1000e+00
159	IHT000032	0.0000	0.3906	0.0586	9.8648e-02	4.1000e+00
160	IHT000033	37.3247	37.7153	37.3911	1.0145e-01	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0567	9.8648e-02	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.1048	1.3235e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0048	8.5454e-02	4.1000e+00

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sum2

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Velocity 1 = 3.0093 (ft/sec) (+/- 18.9686 %)
Velocity 2 = 2.5871 (ft/sec) (+/- 9.8079 %)
Pressure drop = -4.9256 (psi)
Tsat in = 239.2457 (deg F) Tsat out = 249.0751 (deg F)
Phi inner = 0.0007 (kBtu/hr-ft2) (+/- 1788.3331 %)
Phi outer = 0.0004 (kBtu/hr-ft2) (+/- 19.8174 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.3963	75.0338	74.6088	1.6799e-01	1.9000e+00
1	TRF0000002	75.1508	75.3622	75.2284	1.0298e-01	1.9000e+00
2	TFM0000001	86.7659	87.6047	87.2556	1.7429e-01	1.9002e+00
3	TIN0000001	87.2562	87.7814	87.5627	1.4976e-01	1.9002e+00
4	TRV0000001	86.8387	87.6766	87.2126	1.9447e-01	1.9002e+00
5	TSR0000001	87.2431	88.0806	87.7148	1.5855e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
7	TAO050136	86.3466	87.1831	86.8057	1.8103e-01	1.9002e+00
8	TAO070136	87.7389	88.6852	88.1512	2.0679e-01	1.9002e+00
9	TAO080136	87.4234	88.0518	87.7371	1.4631e-01	1.9002e+00
10	TAO090136	87.1928	87.9260	87.5456	1.7850e-01	1.9002e+00
11	TAO100136	87.6086	88.0286	87.7736	1.3370e-01	1.9002e+00
12	TAO105136	87.6514	88.3857	88.0603	2.0681e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0615	1.1022e-01	1.9011e+00
14	TAO115136	86.8593	87.7012	87.2979	2.1293e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5891	9.6972e-02	1.9010e+00
16	TAO125136	87.4005	88.0295	87.5825	1.4785e-01	1.9002e+00
17	TAO130136	87.1468	87.9799	87.4885	1.6342e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2906	1.1020e-01	1.9011e+00
19	TAO130048	87.2564	87.8854	87.5108	1.4967e-01	1.9002e+00
20	TAO120224	86.9567	87.5864	87.2714	1.4365e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.9074	1.0442e-01	1.9010e+00
22	TAO120312	87.2358	87.8655	87.4821	1.4928e-01	1.9002e+00
23	TAO130312	86.8209	87.5541	87.1154	1.3976e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.4042	1.7305e-01	1.9010e+00
25	TRT070000	87.0277	87.7650	87.4127	1.6446e-01	1.9002e+00
26	TRT100000	87.6336	88.3663	88.0117	1.7847e-01	1.9002e+00
27	TRT120000	87.5436	88.0678	87.7214	1.4390e-01	1.9002e+00
28	TRT125000	87.5221	88.1502	87.7592	1.5637e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5776	1.0086e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7556	1.7247e-01	1.9011e+00
31	TAF050136	87.4779	88.1067	87.7110	1.6591e-01	1.9002e+00
32	TAF070136	87.8649	88.8041	88.3526	1.9560e-01	1.9002e+00
33	TAF080136	87.3710	87.9990	87.6631	1.6770e-01	1.9002e+00
34	TAF090136	87.6506	88.6984	88.1445	2.5024e-01	1.9002e+00
35	TAF100136	87.2103	87.8403	87.5124	1.6686e-01	1.9002e+00
36	TAF105136	87.3815	88.1122	87.7627	1.8114e-01	1.9002e+00
37	TAF110136	87.2757	87.7994	87.5173	1.5873e-01	1.9002e+00
38	TAF115136	87.7427	88.5810	88.0570	2.1051e-01	1.9002e+00
39	TAF120136	87.5234	88.0467	87.6797	1.1941e-01	1.9002e+00
40	TAF125136	87.6942	88.2171	87.9365	1.2889e-01	1.9002e+00
41	TAF130136	87.3895	88.0188	87.7382	1.2190e-01	1.9002e+00
42	TAF120048	87.7151	88.6630	88.1197	2.4175e-01	1.9002e+00
43	TAF130048	87.4179	87.8379	87.5614	1.1277e-01	1.9002e+00
44	TAF120224	87.4280	88.3711	87.8452	2.0905e-01	1.9002e+00
45	TAF130224	86.8476	87.4787	87.1978	1.2204e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.2320	2.6333e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.4136	1.2703e-01	1.9010e+00
48	TAI130048	87.4044	88.5576	87.9972	2.7617e-01	1.9002e+00
49	TAI130136	86.9271	87.7651	87.3436	1.9051e-01	1.9002e+00
50	TAI130224	87.3731	88.4238	87.8752	2.8790e-01	1.9002e+00
51	TAI130312	86.7755	87.7203	87.3005	1.9287e-01	1.9002e+00
52	TRR130000	86.6535	87.5958	87.0789	2.3542e-01	1.9002e+00
53	TSI000001	79.8292	80.3565	80.0252	1.3440e-01	1.9001e+00
54	TSI000002	70.7242	71.7853	71.3087	2.5733e-01	1.9000e+00
55	TSO000001	67.8751	68.7302	68.2090	1.8598e-01	1.9000e+00
56	TSO000002	80.3175	80.9504	80.6342	1.4453e-01	1.9001e+00
57	TAF020136	86.9819	87.6145	87.3109	1.4990e-01	1.9002e+00
58	TAF120312	74.7454	75.8042	75.2207	2.2373e-01	1.9000e+00
59	TAF130312	86.7205	87.3502	87.0480	1.6396e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4838	1.3508e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.4987	1.7263e-03	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5128	6.9754e-04	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5288	2.2737e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3288	2.3483e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3508	1.8234e-03	0.0000e+00
66	EMPTY	0.3613	0.3711	0.3662	9.9670e-04	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3853	1.3508e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3969	2.2287e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4152	9.7615e-04	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4317	2.4247e-03	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4690	1.1827e-03	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4884	6.9754e-04	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5034	1.4934e-03	0.0000e+00
75	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
76	EMPTY	0.5371	0.5420	0.5372	6.9754e-04	0.0000e+00
77	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5805	1.6172e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6039	2.3135e-03	0.0000e+00
80	PAN020136	-17.4448	-17.1396	-17.2595	6.0316e-02	8.7107e-01
81	PAN050136	-32.6195	-32.3143	-32.5042	1.0107e-01	1.6820e+00
82	PAN070136	-21.8080	-21.5029	-21.6835	6.7334e-02	8.7169e-01
83	PAN080136	-11.1945	-10.8893	-11.0232	7.2262e-02	8.7044e-01
84	PAN090136	-10.8042	-10.6516	-10.7357	4.4717e-02	8.7041e-01
85	PAN100136	-10.8468	-10.6942	-10.7331	4.1562e-02	8.7041e-01
86	PAN105136	-5.3368	-5.1843	-5.2387	5.6151e-02	8.7010e-01
87	PAN110136	-5.6537	-5.3485	-5.5400	7.1574e-02	8.7011e-01
88	PAN115136	-5.1534	-4.9245	-4.9992	6.1293e-02	8.7009e-01
89	PAN120136	-5.9442	-5.7916	-5.8897	5.3948e-02	8.7012e-01
90	PAN125136	-5.4939	-5.2650	-5.3864	4.3823e-02	8.7010e-01
91	PAN130136	-5.5246	-5.2958	-5.4203	5.5486e-02	8.7011e-01
92	PAN120048	-11.8591	-11.5539	-11.6832	5.4405e-02	8.7049e-01
93	PAN130048	-11.0581	-10.9055	-10.9382	4.1203e-02	8.7043e-01
94	PAN120224	-11.0082	-10.7031	-10.8837	6.7334e-02	8.7043e-01
95	PAN130224	-10.9568	-10.7279	-10.9116	4.6508e-02	8.7043e-01
96	PAN120312	-10.8350	-10.6062	-10.7587	5.3948e-02	8.7042e-01
97	PAN130312	-11.0067	-10.7778	-10.8883	5.8398e-02	8.7043e-01
98	PAB000136	24.5881	24.7254	24.6693	4.1013e-02	5.8327e-01
99	PAB100136	28.2080	28.3453	28.2780	4.0839e-02	5.8429e-01
100	PAB125136	29.2123	29.3497	29.2973	3.7376e-02	5.8461e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.3947	24.5168	24.4769	5.7837e-02	7.5249e-01
102	PRV000001	20.6598	20.7819	20.7470	5.5717e-02	7.5179e-01
103	PSR000001	29.5968	29.7189	29.6242	5.1461e-02	7.5365e-01
104	PFM000001	1.1762	1.5424	1.3406	7.2330e-02	5.0001e-01
105	PAN000136	-136.6945	-136.2368	-136.3676	2.0894e-01	4.9318e+00
106	PFM000002	0.8554	1.2078	0.9811	7.3551e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	-0.0038	2.2871e-03	0.0000e+00
108	EMPTY	-10.0000	-9.1650	-9.9682	1.4442e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0005	1.4934e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0003	1.1827e-03	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0873	9.2715e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0166	8.3705e-02	8.1000e-01
114	VPW000003	-0.0400	0.1553	0.0278	9.3931e-02	8.1000e-01
115	VPW000004	-0.2306	0.1600	0.0125	1.0941e-01	8.1000e-01
116	VPW000005	-0.1200	0.2706	0.0036	1.0315e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0645	1.0701e-01	8.1000e-01
118	IPW000001	-19.1705	-13.3134	-16.2619	1.1358e+00	8.1010e+00
119	IPW000002	9.3567	15.2105	12.1044	1.3751e+00	8.1006e+00
120	IPW000003	17.5032	23.3532	19.6522	1.3348e+00	8.1015e+00
121	IPW000004	-3.4297	-2.4531	-2.9713	3.0572e-01	2.0001e+00
122	IPW000005	-2.2529	-0.7882	-1.4956	3.0000e-01	2.0000e+00
123	IPW000006	-18.5547	-17.0898	-17.9668	3.5908e-01	2.0050e+00
124	EMPTY	-0.0293	-0.0146	-0.0204	4.0698e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.9111e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0179	4.1561e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0151	2.6828e-03	0.0000e+00
128	IHT000001	-0.4447	-0.0541	-0.1537	1.0640e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1213	8.3122e-02	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2497	1.0486e-01	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1402	9.9303e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1166	8.3122e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0213	1.2215e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.1039	8.5810e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1758	9.7656e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1641	7.6412e-02	4.1000e+00
137	IHT000010	-0.1600	0.2306	-0.0843	1.0409e-01	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1039	9.4620e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1574	1.0533e-01	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0339	1.0701e-01	4.1000e+00
141	IHT000014	-0.1600	0.0353	-0.1162	8.2338e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1523	9.8153e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1599	7.9532e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0638	2.6859e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3550	1.0486e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0280	8.3705e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0875	7.8092e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3328	9.2189e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1957	1.0409e-01	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1155	7.9532e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2096	9.6150e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0830	9.8153e-02	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0678	1.0204e-01	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1315	9.2540e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0147	9.6318e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.1553	0.1314	6.4688e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1153	8.9148e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1106	9.7656e-02	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0638	9.2540e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3885	9.2540e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0436	1.2413e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1108	1.1348e-01	4.1000e+00
163	IHT000036	-0.2353	0.3506	0.0198	1.1419e-01	4.1000e+00

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Velocity 1 = 0.000400 (ft/sec)

Velocity 2 = 0.001900 (ft/sec)

Pressure Drop = 0.000400 (psi)

Tsat in = 0.075699 (deg F) Tsat out = 0.072601 (deg F)

Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0170	0.0228
1	TRF000002	0.0069	0.0092
2	TFM000001	0.0161	0.0185
3	TIN000001	0.0082	0.0094
4	TRV000001	0.0030	0.0034
5	TSR000001	0.0261	0.0297
6	EMPTY	0.0000	0.0000
7	TAO050136	0.0321	0.0370
8	TAO070136	0.0251	0.0285
9	TAO080136	0.0041	0.0047
10	TAO090136	0.0091	0.0104
11	TAO100136	0.0054	0.0061
12	TAO105136	0.0275	0.0312
13	EMPTY	0.0671	0.1631
14	TAO115136	0.0080	0.0092
15	EMPTY	0.0378	0.1007
16	TAO125136	0.0111	0.0127
17	TAO130136	0.0037	0.0042
18	EMPTY	0.0076	0.0184
19	TAO130048	0.0238	0.0272
20	TAO120224	0.0167	0.0191
21	EMPTY	0.0182	0.0468
22	TAO120312	0.0154	0.0176
23	TAO130312	0.0183	0.0210
24	EMPTY	0.0511	0.1299
25	TRT070000	0.0070	0.0080
26	TRT100000	0.0054	0.0061
27	TRT120000	0.0028	0.0032
28	TRT125000	0.0359	0.0409
29	EMPTY	0.0087	0.0220
30	EMPTY	0.0811	0.2044
31	TAF050136	0.0601	0.0685
32	TAF070136	0.0174	0.0197
33	TAF080136	0.0131	0.0149
34	TAF090136	0.0664	0.0754
35	TAF100136	0.0128	0.0146
36	TAF105136	0.0237	0.0270
37	TAF110136	0.0140	0.0160
38	TAF115136	0.0334	0.0379
39	TAF120136	0.0116	0.0132
40	TAF125136	0.0131	0.0149
41	TAF130136	0.0119	0.0136
42	TAF120048	0.0504	0.0572
43	TAF130048	0.0007	0.0008
44	TAF120224	0.0105	0.0120
45	TAF130224	0.0119	0.0136

#	Name	Abs Diff	%Diff
46	EMPTY	0.0645	0.1690
47	EMPTY	0.0972	0.2472
48	TAI130048	0.0223	0.0253
49	TAI130136	0.0103	0.0118
50	TAI130224	0.0362	0.0412
51	TAI130312	0.0084	0.0096
52	TRR130000	0.0438	0.0503
53	TSI000001	0.0151	0.0189
54	TSI000002	0.0859	0.1203
55	TSO000001	0.0603	0.0885
56	TSO000002	0.0337	0.0418
57	TAF020136	0.0461	0.0528
58	TAF120312	0.0349	0.0464
59	TAF130312	0.0542	0.0622
60	EMPTY	0.0001	0.0207
61	EMPTY	0.0004	0.0803
62	EMPTY	0.0001	0.0195
63	EMPTY	0.0002	0.0378
64	EMPTY	0.0006	0.1828
65	EMPTY	0.0010	0.2859
66	EMPTY	0.0001	0.0273
67	EMPTY	0.0003	0.0779
68	EMPTY	0.0003	0.0756
69	EMPTY	0.0001	0.0241
70	EMPTY	0.0003	0.0695
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0002	0.0427
73	EMPTY	0.0001	0.0205
74	EMPTY	0.0005	0.0994
75	EMPTY	0.0001	0.0191
76	EMPTY	0.0001	0.0186
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0004	0.0690
79	EMPTY	0.0012	0.1991
80	PAN020136	0.0083	0.0481
81	PAN050136	0.0007	0.0021
82	PAN070136	0.0101	0.0466
83	PAN080136	0.0065	0.0589
84	PAN090136	0.0181	0.1683
85	PAN100136	0.0084	0.0783
86	PAN105136	0.0127	0.2418
87	PAN110136	0.0023	0.0415
88	PAN115136	0.0045	0.0901
89	PAN120136	0.0133	0.2253
90	PAN125136	0.0083	0.1539
91	PAN130136	0.0097	0.1786
92	PAN120048	0.0087	0.0745
93	PAN130048	0.0541	0.4971
94	PAN120224	0.0158	0.1454
95	PAN130224	0.0097	0.0890
96	PAN120312	0.0015	0.0139
97	PAN130312	0.0022	0.0202
98	PAB000136	0.0332	0.1344
99	PAB100136	0.0398	0.1405
100	PAB125136	0.0368	0.1255

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0057	0.0233
102	PRV000001	0.0408	0.1970
103	PSR000001	0.0483	0.1628
104	PFM000001	0.0004	0.0298
105	PAN000136	0.0118	0.0087
106	PFM000002	0.0015	0.1531
107	EMPTY	0.0001	2.7027
108	EMPTY	0.0003	0.0070
109	EMPTY	0.0003	150.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	50.0000
112	VPW000001	0.0036	3.9604
113	VPW000002	0.0119	253.1915
114	VPW000003	0.0103	27.0341
115	VPW000004	0.0420	77.0642
116	VPW000005	0.0220	119.5652
117	VPW000006	0.0012	1.8957
118	IPW000001	0.2542	1.5880
119	IPW000002	0.3281	2.7861
120	IPW000003	0.1210	0.6195
121	IPW000004	0.0006	0.0202
122	IPW000005	0.0825	5.8382
123	IPW000006	0.0859	0.4804
124	EMPTY	0.0003	1.4925
125	EMPTY	0.0001	0.7463
126	EMPTY	0.0001	0.5618
127	EMPTY	0.0005	3.2051
128	IHT000001	0.0410	21.0580
129	IHT000002	0.0384	24.0451
130	IHT000003	0.0133	5.0570
131	IHT000004	0.0403	22.3269
132	IHT000005	0.0189	13.9483
133	IHT000006	0.0052	32.2981
134	IHT000007	0.0230	18.1245
135	IHT000008	0.0028	1.5678
136	IHT000009	0.0359	17.9500
137	IHT000010	0.0210	19.9430
138	IHT000011	0.0083	8.6820
139	IHT000012	0.0087	5.8507
140	IHT000013	0.0091	36.6935
141	IHT000014	0.0148	14.5957
142	IHT000015	0.0217	16.6156
143	IHT000016	0.0243	17.9203
144	IHT000017	0.0169	36.0341
145	IHT000018	0.0297	7.7203
146	IHT000019	0.0042	13.0435
147	IHT000020	0.0081	8.4728
148	IHT000021	0.0084	0.2514
149	IHT000022	0.0102	4.9539
150	IHT000023	0.0047	3.9101
151	IHT000024	0.0249	10.6183
152	IHT000025	0.0057	7.3739
153	IHT000026	0.0103	13.1882
154	IHT000027	0.0169	11.3881
155	IHT000028	0.0081	35.5263

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0112	9.3178
157	IHT000030	0.0039	3.2718
158	IHT000031	0.0039	3.4061
159	IHT000032	0.0052	8.8737
160	IHT000033	0.0026	0.0070
161	IHT000034	0.0131	23.1041
162	IHT000035	0.0060	5.7252
163	IHT000036	0.0246	512.4999

Velocity 1 = 25.8812 (ft/sec) (+/- 3.4792 %)
 Velocity 2 = 13.3269 (ft/sec) (+/- 3.4863 %)
 Pressure drop = 21.1249 (psi)
 Tsat in = 292.7420 (deg F) Tsat out = 266.8534 (deg F)
 Phi inner = 100.6581 (kBtu/hr-ft2) (+/- 1.5696 %)
 Phi outer = 100.8573 (kBtu/hr-ft2) (+/- 1.5506 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	73.5899	74.2281	73.9388	1.8616e-01	1.9000e+00
1	TRF0000002	74.0261	74.4494	74.2378	1.3522e-01	1.9000e+00
2	TFM0000001	85.7324	86.5719	86.1442	1.9289e-01	1.9002e+00
3	TIN0000001	85.7983	86.4293	86.1557	1.6171e-01	1.9002e+00
4	TRV0000001	85.9426	86.7811	86.3113	2.0106e-01	1.9002e+00
5	TSR0000001	105.7242	106.9612	106.3762	2.9311e-01	1.9009e+00
6	EMPTY	37.9974	38.9168	38.3974	2.3129e-01	1.9010e+00
7	TAO050136	117.5782	118.2947	117.9509	1.6755e-01	1.9015e+00
8	TAO070136	116.0327	117.0616	116.5023	2.0168e-01	1.9015e+00
9	TAO080136	116.0532	116.6679	116.4135	1.3754e-01	1.9015e+00
10	TAO090136	142.1635	142.9675	142.4853	2.0294e-01	1.9035e+00
11	TAO100136	117.8719	118.5881	118.1912	1.5007e-01	1.9016e+00
12	TAO105136	118.7955	120.0232	119.3725	2.8844e-01	1.9016e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	125.2382	126.1574	125.7371	2.2001e-01	1.9021e+00
15	EMPTY	37.3074	37.5374	37.3166	4.5544e-02	1.9009e+00
16	TAO125136	125.8221	126.4324	126.0827	1.7195e-01	1.9021e+00
17	EMPTY	44.8706	45.5552	45.1764	1.9347e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5456	1.1533e-01	1.9012e+00
19	TAO130048	117.8970	118.6118	118.2607	1.5889e-01	1.9016e+00
20	TAO120224	121.0868	121.9046	121.4918	2.0431e-01	1.9018e+00
21	EMPTY	38.9168	39.3761	39.1373	1.3889e-01	1.9010e+00
22	TAO120312	123.0901	123.9076	123.4707	2.1047e-01	1.9019e+00
23	TAO130312	118.6055	119.3217	119.0148	1.6137e-01	1.9016e+00
24	EMPTY	38.9168	39.6057	39.1878	1.7782e-01	1.9010e+00
25	TRT070000	114.8210	115.4403	115.1634	1.7221e-01	1.9014e+00
26	TRT100000	121.1438	122.1640	121.6864	2.2806e-01	1.9018e+00
27	TRT120000	120.7589	121.5767	121.1761	1.8212e-01	1.9018e+00
28	TRT125000	122.7983	123.4096	123.0877	1.7946e-01	1.9019e+00
29	EMPTY	39.6057	39.8352	39.7847	9.6044e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6286	2.1379e-01	1.9011e+00
31	TAF050136	93.8850	94.7182	94.2938	1.7468e-01	1.9004e+00
32	TAF070136	96.7013	97.6347	97.1571	2.2271e-01	1.9005e+00
33	TAF080136	97.4843	98.2102	97.8578	1.5686e-01	1.9005e+00
34	TAF090136	98.5296	99.6728	99.0495	2.8477e-01	1.9006e+00
35	TAF100136	100.3771	101.2084	100.8053	1.5947e-01	1.9006e+00
36	TAF105136	101.6290	102.6602	102.1360	2.4165e-01	1.9007e+00
37	TAF110136	102.9637	103.6870	103.3150	1.6835e-01	1.9007e+00
38	TAF115136	104.1772	105.0047	104.5291	1.9478e-01	1.9008e+00
39	TAF120136	105.0593	105.5769	105.3245	1.2744e-01	1.9008e+00
40	TAF125136	105.6590	106.6883	106.0995	2.6917e-01	1.9009e+00
41	TAF130136	106.3251	106.9452	106.5693	1.6790e-01	1.9009e+00
42	TAF120048	104.9636	106.0035	105.4998	2.5057e-01	1.9008e+00
43	TAF130048	105.7203	106.3410	106.0886	1.6065e-01	1.9009e+00
44	TAF120224	104.4352	105.2622	104.8444	2.2489e-01	1.9008e+00
45	TAF130224	105.4964	106.0156	105.7747	1.4416e-01	1.9009e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9008	2.0824e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1648	1.3795e-01	1.9010e+00
48	TAI130048	124.2259	124.7362	124.4832	1.5314e-01	1.9020e+00
49	TAI130136	123.4336	123.9435	123.6825	1.4432e-01	1.9019e+00
50	TAI130224	123.6438	124.2569	123.9626	1.6713e-01	1.9020e+00
51	TAI130312	122.6814	123.2938	122.9876	1.4441e-01	1.9019e+00
52	TRR130000	90.3634	91.7197	91.0603	2.7018e-01	1.9003e+00
53	TSI000001	42.8050	43.5664	43.1966	1.7572e-01	1.9005e+00
54	TSI000002	87.8900	89.1454	88.4549	2.5086e-01	1.9002e+00
55	TSO000001	41.9354	42.9193	42.4383	2.0585e-01	1.9005e+00
56	TSO000002	47.8011	48.7766	48.2218	2.0142e-01	1.9003e+00
57	TAF020136	88.8063	89.6473	89.2857	2.0295e-01	1.9003e+00
58	EMPTY	42.8139	43.7285	43.2210	2.3688e-01	1.9013e+00
59	TAF130312	106.2626	106.8828	106.5769	1.7694e-01	1.9009e+00
60	EMPTY	0.9570	0.9619	0.9581	2.0432e-03	0.0000e+00
61	EMPTY	0.9668	0.9717	0.9701	2.3008e-03	0.0000e+00
62	EMPTY	0.9766	0.9814	0.9808	1.7115e-03	0.0000e+00
63	EMPTY	0.9912	0.9961	0.9935	2.4583e-03	0.0000e+00
64	EMPTY	0.5518	0.5566	0.5564	9.6655e-04	0.0000e+00
65	EMPTY	0.5713	0.5762	0.5760	9.6655e-04	0.0000e+00
66	EMPTY	0.5859	0.5908	0.5907	6.9053e-04	0.0000e+00
67	EMPTY	0.6055	0.6104	0.6066	2.1065e-03	0.0000e+00
68	EMPTY	0.6201	0.6201	0.6201	0.0000e+00	0.0000e+00
69	EMPTY	0.6348	0.6396	0.6374	2.4583e-03	0.0000e+00
70	EMPTY	0.6494	0.6543	0.6524	2.3941e-03	0.0000e+00
71	EMPTY	0.6738	0.6787	0.6746	1.8082e-03	0.0000e+00
72	EMPTY	0.6885	0.6885	0.6885	0.0000e+00	0.0000e+00
73	EMPTY	0.7031	0.7080	0.7059	2.4484e-03	0.0000e+00
74	EMPTY	0.7178	0.7227	0.7192	2.2603e-03	0.0000e+00
75	EMPTY	0.7373	0.7373	0.7373	0.0000e+00	0.0000e+00
76	EMPTY	0.7471	0.7520	0.7502	2.3675e-03	0.0000e+00
77	EMPTY	0.7666	0.7715	0.7680	2.2146e-03	0.0000e+00
78	EMPTY	0.7910	0.7910	0.7910	0.0000e+00	0.0000e+00
79	EMPTY	0.8105	0.8154	0.8110	1.4797e-03	0.0000e+00
80	PAN020136	70.0850	73.2130	71.6779	7.2994e-01	8.8826e-01
81	PAN050136	135.5412	136.9144	136.2034	3.1830e-01	1.7142e+00
82	PAN070136	100.0995	100.0995	100.0996	7.7069e-05	9.0528e-01
83	PAN080136	45.0370	45.7237	45.4047	1.5467e-01	8.7737e-01
84	PAN090136	43.5611	44.2478	43.8251	1.3890e-01	8.7687e-01
85	PAN100136	44.9784	45.5124	45.2057	1.2663e-01	8.7731e-01
86	PAN105136	31.2139	31.6716	31.4351	1.0707e-01	8.7354e-01
87	PAN110136	26.7874	27.1688	26.9735	8.7411e-02	8.7261e-01
88	PAN115136	20.4697	20.8511	20.6894	1.0182e-01	8.7154e-01
89	PAN120136	17.8990	18.3568	18.1478	1.0658e-01	8.7118e-01
90	PAN125136	18.3158	18.6209	18.5096	8.8826e-02	8.7123e-01
91	PAN130136	17.3341	17.7156	17.4486	7.5904e-02	8.7109e-01
92	PAN120048	39.6378	40.1718	39.8636	1.3256e-01	8.7569e-01
93	PAN130048	36.7973	37.4839	37.1040	1.4252e-01	8.7493e-01
94	PAN120224	41.5818	42.1922	41.8687	1.3487e-01	8.7627e-01
95	PAN130224	36.6697	37.1274	36.8192	1.0563e-01	8.7486e-01
96	PAN120312	41.9120	42.4460	42.1729	1.1748e-01	8.7637e-01
97	PAN130312	34.4997	34.9575	34.7576	1.2224e-01	8.7433e-01
98	PAB000136	59.8158	60.3194	60.1207	9.8575e-02	5.9916e-01
99	PAB100136	43.7009	43.8840	43.8043	3.6773e-02	5.9025e-01
100	PAB125136	39.5933	39.7306	39.6555	4.3141e-02	5.8841e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.6389	60.4934	60.0076	2.0558e-01	7.6486e-01
102	PRV000001	19.7336	19.9778	19.8557	2.4662e-02	7.5164e-01
103	PSR000001	36.3798	36.6239	36.5116	4.1561e-02	7.5553e-01
104	PFM000001	103.9792	105.9018	104.7171	4.2154e-01	5.6439e-01
105	PAN000136	581.2108	588.5350	584.8546	1.5279e+00	5.1327e+00
106	PFM000002	27.5773	27.5773	27.5773	9.6336e-06	2.1155e-01
107	EMPTY	0.0049	0.0146	0.0085	2.3778e-03	0.0000e+00
108	EMPTY	-6.8359	-3.6230	-5.0714	8.9638e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0059	1.9730e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0014	2.2146e-03	0.0000e+00
112	VPW000001	101.7428	102.5240	102.0318	1.5902e-01	1.0153e+00
113	VPW000002	118.7876	119.3735	119.1431	1.4057e-01	1.0803e+00
114	VPW000003	146.7173	147.1079	146.9751	1.0763e-01	1.1974e+00
115	VPW000004	104.5786	105.1645	104.9106	1.5409e-01	1.0258e+00
116	VPW000005	138.8972	139.6785	139.2723	1.4680e-01	1.1638e+00
117	VPW000006	145.3050	146.0862	145.6801	1.9666e-01	1.1917e+00
118	IPW000001	543.2770	558.8958	551.7112	3.6030e+00	9.1982e+00
119	IPW000002	1294.0670	1307.7258	1301.4818	4.6142e+00	1.3089e+01
120	IPW000003	1325.0248	1332.8248	1330.0168	2.3360e+00	1.3267e+01
121	IPW000004	384.4933	386.9347	385.6066	4.9363e-01	3.6442e+00
122	IPW000005	254.7822	257.2233	255.8661	4.8614e-01	2.8436e+00
123	IPW000006	267.6815	270.1229	268.9706	5.3815e-01	2.9181e+00
124	EMPTY	-0.0293	-0.0146	-0.0225	4.3000e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0143	3.3944e-03	0.0000e+00
126	EMPTY	-0.0293	-0.0146	-0.0188	3.8219e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.2718e-03	0.0000e+00
128	IHT000001	131.6632	133.8116	132.7100	6.0587e-01	4.3094e+00
129	IHT000002	131.0359	133.3797	132.0086	5.6426e-01	4.3073e+00
130	IHT000003	129.5410	131.8848	130.4980	5.4996e-01	4.3027e+00
131	IHT000004	132.0801	134.0332	132.9941	5.1816e-01	4.3103e+00
132	IHT000005	130.2321	132.5759	131.2008	4.7180e-01	4.3048e+00
133	IHT000006	125.7775	127.9259	126.8829	4.9064e-01	4.2918e+00
134	IHT000007	131.7833	133.9318	132.9669	4.6086e-01	4.3102e+00
135	IHT000008	130.4537	132.6021	131.6998	4.9425e-01	4.3063e+00
136	IHT000009	130.4875	132.6360	131.5109	5.6574e-01	4.3058e+00
137	IHT000010	130.5138	132.8576	131.5060	5.3502e-01	4.3057e+00
138	IHT000011	131.4153	134.1496	132.5636	5.4196e-01	4.3090e+00
139	IHT000012	130.6077	133.3421	131.7093	5.4499e-01	4.3064e+00
140	IHT000013	92.0072	94.3510	93.0307	5.2134e-01	4.2042e+00
141	IHT000014	127.4715	129.8152	128.4286	4.6396e-01	4.2964e+00
142	IHT000015	94.7341	96.8825	95.7341	4.7127e-01	4.2103e+00
143	IHT000016	89.1940	91.5377	89.9791	4.7267e-01	4.1976e+00
144	IHT000017	104.2706	107.7862	106.1065	9.7537e-01	4.2351e+00
145	IHT000018	106.8134	109.1572	107.9463	5.6634e-01	4.2397e+00
146	IHT000019	107.0350	109.3788	108.1092	5.3996e-01	4.2401e+00
147	IHT000020	105.9721	108.5111	107.1440	5.5243e-01	4.2377e+00
148	IHT000021	-2.7907	-0.2517	-1.5642	6.2768e-01	4.1000e+00
149	IHT000022	93.0176	95.1660	93.9981	5.4030e-01	4.2064e+00
150	IHT000023	105.5476	107.6961	106.3914	4.9668e-01	4.2358e+00
151	IHT000024	70.8872	72.8403	71.6919	5.0322e-01	4.1622e+00
152	IHT000025	102.4677	104.8114	103.4091	5.3480e-01	4.2284e+00
153	IHT000026	105.0856	107.0388	105.9411	4.9109e-01	4.2347e+00
154	IHT000027	90.0579	92.0110	91.0149	4.9007e-01	4.1998e+00
155	IHT000028	90.9893	93.5284	92.1416	5.9615e-01	4.2023e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0021	108.5412	107.0607	6.1014e-01	4.2375e+00
157	IHT000030	108.5073	110.8511	109.5855	6.0392e-01	4.2439e+00
158	IHT000031	106.5881	108.7365	107.5568	5.8522e-01	4.2387e+00
159	IHT000032	107.4332	109.7769	108.5698	5.4059e-01	4.2413e+00
160	IHT000033	107.4144	109.9534	108.4769	5.5965e-01	4.2411e+00
161	IHT000034	94.3247	96.2778	95.1919	5.1774e-01	4.2091e+00
162	IHT000035	123.9633	126.1118	124.9985	4.7719e-01	4.2863e+00
163	IHT000036	92.6157	94.9594	93.7056	4.9140e-01	4.2057e+00

Velocity 1 = 25.9115 (ft/sec) (+/- 3.4792 %)
 Velocity 2 = 13.3269 (ft/sec) (+/- 3.4863 %)
 Pressure drop = 21.1712 (psi)
 Tsat in = 292.8736 (deg F) Tsat out = 266.9072 (deg F)
 Phi inner = 99.4970 (kBtu/hr-ft2) (+/- 1.5726 %)
 Phi outer = 100.8427 (kBtu/hr-ft2) (+/- 1.5497 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.5899	74.2281	73.9372	1.3520e-01	1.9000e+00
1	TRF000002	74.0261	74.4494	74.2853	1.2420e-01	1.9000e+00
2	TFM000001	85.7330	86.4671	86.1226	1.9152e-01	1.9002e+00
3	TIN000001	85.7982	86.4287	86.1973	1.3731e-01	1.9002e+00
4	TRV000001	85.8378	86.6763	86.4107	1.7761e-01	1.9002e+00
5	TSR000001	105.1071	106.5496	105.7424	3.4761e-01	1.9009e+00
6	EMPTY	37.9974	38.6870	38.4150	2.0809e-01	1.9010e+00
7	TAO050136	117.9871	118.5998	118.3123	1.4987e-01	1.9016e+00
8	TAO070136	116.3416	117.0621	116.6862	1.8011e-01	1.9015e+00
9	TAO080136	115.9520	116.5651	116.3190	1.4125e-01	1.9014e+00
10	TAO090136	139.8535	140.6580	140.1779	1.8731e-01	1.9033e+00
11	TAO100136	117.6667	118.2814	117.9493	1.4255e-01	1.9015e+00
12	TAO105136	118.8976	119.9206	119.3780	2.5419e-01	1.9016e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	125.0336	125.9537	125.5886	2.2841e-01	1.9021e+00
15	EMPTY	37.3074	37.5374	37.3168	4.5996e-02	1.9009e+00
16	TAO125136	125.6199	126.1283	125.9164	1.4635e-01	1.9021e+00
17	EMPTY	44.8706	45.5552	45.2013	1.8077e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5198	1.1017e-01	1.9012e+00
19	TAO130048	117.7958	118.4085	118.1745	1.5606e-01	1.9016e+00
20	TAO120224	120.8830	121.5979	121.1810	1.9091e-01	1.9018e+00
21	EMPTY	39.9168	39.6057	39.1605	1.0901e-01	1.9010e+00
22	TAO120312	122.7839	123.8053	123.2260	2.3719e-01	1.9019e+00
23	TAO130312	118.6062	119.2196	118.9815	1.5521e-01	1.9016e+00
24	EMPTY	38.9168	39.6057	39.2261	1.7881e-01	1.9010e+00
25	TRT070000	114.8215	115.5432	115.1808	1.6322e-01	1.9014e+00
26	TRT100000	121.3477	122.0621	121.6954	1.5844e-01	1.9018e+00
27	TRT120000	120.7589	121.4742	121.0616	1.4439e-01	1.9018e+00
28	TRT125000	122.5955	123.3074	122.9013	1.6332e-01	1.9019e+00
29	EMPTY	39.6057	40.0646	39.7883	1.1456e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6103	2.3188e-01	1.9011e+00
31	TAF050136	93.9896	94.7187	94.3021	1.5328e-01	1.9004e+00
32	TAF070136	96.7018	97.5303	97.1285	1.8867e-01	1.9005e+00
33	TAF080136	97.4866	98.1059	97.8086	1.4580e-01	1.9005e+00
34	TAF090136	98.7377	99.5692	99.0770	2.1905e-01	1.9006e+00
35	TAF100136	100.4807	101.1043	100.7694	1.3960e-01	1.9006e+00
36	TAF105136	101.5270	102.5563	102.0354	2.2285e-01	1.9007e+00
37	TAF110136	102.9637	103.4810	103.2570	1.5402e-01	1.9007e+00
38	TAF115136	104.1777	104.7977	104.4878	1.5204e-01	1.9008e+00
39	TAF120136	104.9573	105.4737	105.2417	1.4666e-01	1.9008e+00
40	TAF125136	105.4553	106.3800	106.0227	2.5616e-01	1.9009e+00
41	TAF130136	106.2226	106.8416	106.5133	1.2232e-01	1.9009e+00
42	TAF120048	105.0668	105.8985	105.4192	2.1945e-01	1.9008e+00
43	TAF130048	105.9269	106.3407	106.1446	1.1214e-01	1.9009e+00
44	TAF120224	104.4352	105.1590	104.7411	1.5786e-01	1.9008e+00
45	TAF130224	105.3927	105.9115	105.6360	1.3966e-01	1.9009e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9270	2.3566e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1465	6.6297e-02	1.9010e+00
48	TAI130048	124.1242	124.6340	124.4197	1.1817e-01	1.9020e+00
49	TAI130136	123.2304	123.7403	123.6151	1.1630e-01	1.9019e+00
50	TAI130224	123.5416	124.2564	123.8898	1.7677e-01	1.9020e+00
51	TAI130312	122.6814	123.1921	122.9542	1.5225e-01	1.9019e+00
52	TRR130000	85.3499	87.5469	86.5219	4.8165e-01	1.9002e+00
53	TSI000001	42.1535	42.8062	42.5291	1.4566e-01	1.9005e+00
54	TSI000002	85.5881	86.8443	86.2786	2.8180e-01	1.9002e+00
55	TSO000001	41.6069	42.4818	41.9461	2.0957e-01	1.9005e+00
56	TSO000002	47.2587	48.0180	47.6729	2.0486e-01	1.9003e+00
57	TAF020136	88.9102	89.6478	89.3039	2.1995e-01	1.9003e+00
58	EMPTY	42.8139	43.5000	43.2013	2.5226e-01	1.9013e+00
59	TAF130312	106.1594	106.7792	106.5117	1.7616e-01	1.9009e+00
60	EMPTY	0.9521	0.9619	0.9570	1.4095e-03	0.0000e+00
61	EMPTY	0.9668	0.9717	0.9676	1.8234e-03	0.0000e+00
62	EMPTY	0.9766	0.9814	0.9779	2.1781e-03	0.0000e+00
63	EMPTY	0.9912	0.9961	0.9913	6.9754e-04	0.0000e+00
64	EMPTY	0.5518	0.5566	0.5550	2.3135e-03	0.0000e+00
65	EMPTY	0.5713	0.5762	0.5735	2.4538e-03	0.0000e+00
66	EMPTY	0.5859	0.5908	0.5887	2.4414e-03	0.0000e+00
67	EMPTY	0.6006	0.6055	0.6054	6.9754e-04	0.0000e+00
68	EMPTY	0.6152	0.6201	0.6187	2.2287e-03	0.0000e+00
69	EMPTY	0.6348	0.6396	0.6350	9.7615e-04	0.0000e+00
70	EMPTY	0.6445	0.6494	0.6493	6.9754e-04	0.0000e+00
71	EMPTY	0.6689	0.6738	0.6736	9.7615e-04	0.0000e+00
72	EMPTY	0.6836	0.6885	0.6847	2.0584e-03	0.0000e+00
73	EMPTY	0.7031	0.7031	0.7031	0.0000e+00	0.0000e+00
74	EMPTY	0.7178	0.7178	0.7178	0.0000e+00	0.0000e+00
75	EMPTY	0.7324	0.7373	0.7325	6.9754e-04	0.0000e+00
76	EMPTY	0.7471	0.7471	0.7471	0.0000e+00	0.0000e+00
77	EMPTY	0.7617	0.7666	0.7665	6.9754e-04	0.0000e+00
78	EMPTY	0.7861	0.7910	0.7863	9.7615e-04	0.0000e+00
79	EMPTY	0.8057	0.8105	0.8082	2.4662e-03	0.0000e+00
80	PAN020136	70.3138	74.9678	72.2321	1.0916e+00	8.8854e-01
81	PAN050136	135.3886	137.0670	136.3384	4.3412e-01	1.7142e+00
82	PAN070136	100.0995	100.0995	100.0996	6.9376e-05	9.0528e-01
83	PAN080136	45.1896	45.8763	45.4839	1.5338e-01	8.7740e-01
84	PAN090136	43.7137	44.2478	43.9488	1.4596e-01	8.7691e-01
85	PAN100136	45.0547	45.5124	45.3038	1.3194e-01	8.7734e-01
86	PAN105136	31.2902	31.8242	31.5035	1.1335e-01	8.7356e-01
87	PAN110136	26.7874	27.2451	26.9960	8.9158e-02	8.7261e-01
88	PAN115136	20.7748	21.2326	21.0193	1.0210e-01	8.7159e-01
89	PAN120136	17.7465	18.1279	17.9317	8.9463e-02	8.7115e-01
90	PAN125136	18.3158	18.8498	18.5680	9.8746e-02	8.7124e-01
91	PAN130136	17.2579	17.7156	17.4634	8.5589e-02	8.7109e-01
92	PAN120048	39.6378	40.2481	39.9398	1.3926e-01	8.7571e-01
93	PAN130048	36.8736	37.4839	37.1694	1.3181e-01	8.7495e-01
94	PAN120224	41.5056	42.2685	41.9493	1.6309e-01	8.7630e-01
95	PAN130224	36.6697	37.2037	36.8705	1.2623e-01	8.7487e-01
96	PAN120312	41.9883	42.5986	42.2903	1.3393e-01	8.7640e-01
97	PAN130312	34.5760	35.1100	34.8204	1.2161e-01	8.7434e-01
98	PAB000136	60.0447	60.5483	60.2400	1.2282e-01	5.9923e-01
99	PAB100136	43.7924	43.9755	43.8895	4.3460e-02	5.9029e-01
100	PAB125136	39.6391	39.7306	39.6914	3.6189e-02	5.8843e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.6389	60.2493	59.9553	1.5344e-01	7.6483e-01
102	PRV000001	19.8557	19.9778	19.9230	6.1346e-02	7.5165e-01
103	PSR000001	36.5018	36.6239	36.5193	4.3158e-02	7.5554e-01
104	PFM000001	103.9792	106.1765	104.9639	5.2644e-01	5.6468e-01
105	PAN000136	582.5841	588.9928	586.1342	1.4819e+00	5.1336e+00
106	PFM000002	27.5773	27.5773	27.5773	9.6356e-06	2.1155e-01
107	EMPTY	0.0049	0.0098	0.0095	1.1827e-03	0.0000e+00
108	EMPTY	-6.9141	-3.6963	-5.3993	9.5874e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0059	1.9883e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0017	2.3483e-03	0.0000e+00
112	VPW000001	101.9381	102.5240	102.1294	1.5176e-01	1.0157e+00
113	VPW000002	118.9829	119.3735	119.1543	1.3000e-01	1.0804e+00
114	VPW000003	146.7173	147.3032	146.9843	1.2413e-01	1.1974e+00
115	VPW000004	104.7739	105.1645	104.9254	1.2774e-01	1.0259e+00
116	VPW000005	139.0925	139.6785	139.3916	1.6962e-01	1.1643e+00
117	VPW000006	145.5003	146.0862	145.7036	1.3787e-01	1.1918e+00
118	IPW000001	560.8481	570.6098	566.4661	2.0949e+00	9.2540e+00
119	IPW000002	1284.3107	1292.1157	1289.0892	1.8279e+00	1.3012e+01
120	IPW000003	1309.4248	1315.2748	1313.3641	1.6646e+00	1.3163e+01
121	IPW000004	383.0284	386.4464	384.7823	1.0111e+00	3.6387e+00
122	IPW000005	254.2939	255.7586	255.2206	3.7614e-01	2.8399e+00
123	IPW000006	266.2166	268.1697	267.0637	4.3188e-01	2.9071e+00
124	EMPTY	-0.0293	-0.0098	-0.0215	4.2190e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.8191e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	4.1756e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.7375e-03	0.0000e+00
128	IHT000001	131.6632	131.2022	132.6357	5.3264e-01	4.3092e+00
129	IHT000002	130.8406	133.3797	131.9727	5.1053e-01	4.3072e+00
130	IHT000003	129.3457	131.8848	130.4578	5.1552e-01	4.3025e+00
131	IHT000004	131.8848	134.2285	132.9610	5.2000e-01	4.3102e+00
132	IHT000005	130.0368	132.5759	131.1409	5.4599e-01	4.3046e+00
133	IHT000006	125.7775	128.1213	126.8417	5.1991e-01	4.2917e+00
134	IHT000007	131.9787	134.3224	133.0030	5.1910e-01	4.3103e+00
135	IHT000008	130.6490	133.5787	131.7212	5.5833e-01	4.3064e+00
136	IHT000009	130.4875	133.2219	131.4760	5.4869e-01	4.3056e+00
137	IHT000010	130.7091	133.4435	131.6936	4.8331e-01	4.3063e+00
138	IHT000011	131.8059	134.3450	132.7027	4.6308e-01	4.3094e+00
139	IHT000012	130.8030	133.1468	131.7916	4.3929e-01	4.3066e+00
140	IHT000013	92.0072	94.1556	93.0396	4.3673e-01	4.2042e+00
141	IHT000014	127.4715	129.6199	128.5876	4.2004e-01	4.2969e+00
142	IHT000015	94.7341	96.8825	95.7385	4.2380e-01	4.2103e+00
143	IHT000016	88.9987	90.9518	90.0708	4.1263e-01	4.1978e+00
144	IHT000017	103.6847	107.7862	105.9925	1.0531e+00	4.2348e+00
145	IHT000018	106.8134	109.3525	107.9813	4.8253e-01	4.2398e+00
146	IHT000019	107.0350	109.3788	108.0355	4.9255e-01	4.2399e+00
147	IHT000020	105.9721	108.1205	106.9766	4.4752e-01	4.2373e+00
148	IHT000021	-2.9860	-0.2517	-1.7225	5.5972e-01	4.1000e+00
149	IHT000022	93.2129	95.1660	93.9623	4.3918e-01	4.2063e+00
150	IHT000023	105.7429	107.5008	106.3728	4.3173e-01	4.2357e+00
151	IHT000024	70.8872	72.6450	71.6525	3.8206e-01	4.1621e+00
152	IHT000025	102.4677	104.4208	103.4244	4.1860e-01	4.2284e+00
153	IHT000026	105.0856	107.0388	106.0064	4.1047e-01	4.2348e+00
154	IHT000027	90.2532	92.2063	91.1739	4.1432e-01	4.2002e+00
155	IHT000028	91.1846	94.1143	92.1054	5.8458e-01	4.2022e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.1974	108.9318	107.0225	6.0234e-01	4.2374e+00
157	IHT000030	108.7027	111.2417	109.6433	5.8820e-01	4.2441e+00
158	IHT000031	106.7834	109.3224	107.6643	5.9685e-01	4.2390e+00
159	IHT000032	107.6285	109.9722	108.6528	5.6877e-01	4.2415e+00
160	IHT000033	107.6097	109.9534	108.6062	5.7116e-01	4.2414e+00
161	IHT000034	94.5200	96.0825	95.1657	4.2977e-01	4.2090e+00
162	IHT000035	124.3540	126.3071	125.1512	4.5428e-01	4.2868e+00
163	IHT000036	93.0063	94.7641	93.7158	4.0006e-01	4.2057e+00

Velocity 1 = 0.030300 (ft/sec)
 Velocity 2 = 0.000000 (ft/sec)
 Pressure Drop = 0.046299 (psi)
 Tsat in = 0.131592 (deg F) Tsat out = 0.053802 (deg F)
 Phi inner = 1.161095 (kBtu/hr-ft2) Phi outer = 0.014603 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF0000001	0.0016	0.0022
1	TRF0000002	0.0475	0.0640
2	TFM0000001	0.0216	0.0251
3	TIN0000001	0.0416	0.0483
4	TRV0000001	0.0994	0.1152
5	TSR0000001	0.6338	0.5958
6	EMPTY	0.0176	0.0458
7	TAO050136	0.3614	0.3064
8	TAO070136	0.1839	0.1579
9	TAO080136	0.0945	0.0812
10	TAO090136	2.3074	1.6194
11	TAO100136	0.2419	0.2047
12	TAO105136	0.0055	0.0046
13	EMPTY	0.0000	0.0000
14	TAO115136	0.1485	0.1181
15	EMPTY	0.0002	0.0005
16	TAO125136	0.1663	0.1319
17	EMPTY	0.0249	0.0551
18	EMPTY	0.0258	0.0621
19	TAO130048	0.0862	0.0729
20	TAO120224	0.3108	0.2558
21	EMPTY	0.0232	0.0593
22	TAO120312	0.2447	0.1982
23	TAO130312	0.0333	0.0280
24	EMPTY	0.0383	0.0977
25	TRT070000	0.0174	0.0151
26	TRT100000	0.0090	0.0074
27	TRT120000	0.1145	0.0945
28	TRT125000	0.1864	0.1514
29	EMPTY	0.0036	0.0091
30	EMPTY	0.0183	0.0462
31	TAF050136	0.0083	0.0088
32	TAF070136	0.0286	0.0294
33	TAF080136	0.0492	0.0503
34	TAF090136	0.0275	0.0278
35	TAF100136	0.0359	0.0356
36	TAF105136	0.1006	0.0985
37	TAF110136	0.0580	0.0561
38	TAF115136	0.0413	0.0395
39	TAF120136	0.0828	0.0786
40	TAF125136	0.0768	0.0724
41	TAF130136	0.0560	0.0525
42	TAF120048	0.0806	0.0764
43	TAF130048	0.0560	0.0528
44	TAF120224	0.1033	0.0985
45	TAF130224	0.1387	0.1311

#	Name	Abs Diff	%Diff
46	EMPTY	0.0262	0.0691
47	EMPTY	0.0183	0.0467
48	TAI130048	0.0635	0.0510
49	TAI130136	0.0674	0.0545
50	TAI130224	0.0728	0.0587
51	TAI130312	0.0334	0.0272
52	TRR130000	4.5384	4.9840
53	TSI000001	0.6675	1.5453
54	TSI000002	2.1763	2.4603
55	TSO000001	0.4922	1.1598
56	TSO000002	0.5489	1.1383
57	TAF020136	0.0182	0.0204
58	EMPTY	0.0197	0.0456
59	TAF130312	0.0652	0.0612
60	EMPTY	0.0011	0.1148
61	EMPTY	0.0025	0.2577
62	EMPTY	0.0029	0.2957
63	EMPTY	0.0022	0.2214
64	EMPTY	0.0014	0.2516
65	EMPTY	0.0025	0.4340
66	EMPTY	0.0020	0.3386
67	EMPTY	0.0012	0.1978
68	EMPTY	0.0014	0.2258
69	EMPTY	0.0024	0.3765
70	EMPTY	0.0031	0.4752
71	EMPTY	0.0010	0.1482
72	EMPTY	0.0038	0.5519
73	EMPTY	0.0028	0.3967
74	EMPTY	0.0014	0.1947
75	EMPTY	0.0048	0.6510
76	EMPTY	0.0031	0.4132
77	EMPTY	0.0015	0.1953
78	EMPTY	0.0047	0.5942
79	EMPTY	0.0028	0.3453
80	PAN020136	0.5542	0.7732
81	PAN050136	0.1350	0.0991
82	PAN070136	0.0000	0.0000
83	PAN080136	0.0792	0.1744
84	PAN090136	0.1237	0.2823
85	PAN100136	0.0981	0.2170
86	PAN105136	0.0684	0.2176
87	PAN110136	0.0225	0.0834
88	PAN115136	0.3299	1.5945
89	PAN120136	0.2161	1.1908
90	PAN125136	0.0584	0.3155
91	PAN130136	0.0148	0.0848
92	PAN120048	0.0762	0.1911
93	PAN130048	0.0654	0.1763
94	PAN120224	0.0806	0.1925
95	PAN130224	0.0513	0.1393
96	PAN120312	0.1174	0.2784
97	PAN130312	0.0628	0.1807
98	PAB000136	0.1193	0.1984
99	PAB100136	0.0852	0.1945
100	PAB125136	0.0359	0.0905

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0523	0.0872
102	PRV000001	0.0673	0.3389
103	PSR000001	0.0077	0.0211
104	PFM000001	0.2468	0.2357
105	PAN000136	1.2796	0.2188
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0010	11.7647
108	EMPTY	0.3279	6.4657
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	21.4286
112	VPW000001	0.0976	0.0957
113	VPW000002	0.0112	0.0094
114	VPW000003	0.0092	0.0063
115	VPW000004	0.0148	0.0141
116	VPW000005	0.1193	0.0857
117	VPW000006	0.0235	0.0161
118	IPW000001	14.7549	2.6744
119	IPW000002	12.3926	0.9522
120	IPW000003	16.6527	1.2521
121	IPW000004	0.8243	0.2138
122	IPW000005	0.6455	0.2523
123	IPW000006	1.9069	0.7090
124	EMPTY	0.0010	4.4444
125	EMPTY	0.0003	2.0979
126	EMPTY	0.0010	5.3191
127	EMPTY	0.0002	1.2048
128	IHT000001	0.0743	0.0560
129	IHT000002	0.0359	0.0272
130	IHT000003	0.0402	0.0308
131	IHT000004	0.0331	0.0249
132	IHT000005	0.0599	0.0457
133	IHT000006	0.0412	0.0325
134	IHT000007	0.0361	0.0272
135	IHT000008	0.0214	0.0163
136	IHT000009	0.0349	0.0265
137	IHT000010	0.1876	0.1427
138	IHT000011	0.1391	0.1049
139	IHT000012	0.0823	0.0625
140	IHT000013	0.0089	0.0096
141	IHT000014	0.1590	0.1238
142	IHT000015	0.0044	0.0046
143	IHT000016	0.0917	0.1019
144	IHT000017	0.1140	0.1074
145	IHT000018	0.0350	0.0324
146	IHT000019	0.0737	0.0682
147	IHT000020	0.1674	0.1562
148	IHT000021	0.1583	10.1202
149	IHT000022	0.0358	0.0381
150	IHT000023	0.0186	0.0175
151	IHT000024	0.0394	0.0550
152	IHT000025	0.0153	0.0148
153	IHT000026	0.0653	0.0616
154	IHT000027	0.1590	0.1747
155	IHT000028	0.0362	0.0393

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0382	0.0357
157	IHT000030	0.0578	0.0527
158	IHT000031	0.1075	0.0999
159	IHT000032	0.0830	0.0764
160	IHT000033	0.1293	0.1192
161	IHT000034	0.0262	0.0275
162	IHT000035	0.1527	0.1222
163	IHT000036	0.0102	0.0109

Velocity 1 = 20.0091 (ft/sec) (+/- 3.4940 %)
 Velocity 2 = 13.3272 (ft/sec) (+/- 3.4863 %)
 Pressure drop = 10.4728 (psi)
 Tsat in = 292.9197 (deg F) Tsat out = 281.0340 (deg F)
 Phi inner = 99.5279 (kBtu/hr-ft2) (+/- 1.5725 %)
 Phi outer = 100.7081 (kBtu/hr-ft2) (+/- 1.5499 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8027	74.4408	74.0537	1.6472e-01	1.9000e+00
1	TRF000002	74.2377	74.6610	74.3563	1.1441e-01	1.9000e+00
2	TFM000001	85.9426	86.7819	86.4106	2.0456e-01	1.9002e+00
3	TIN000001	86.1138	86.7441	86.4856	1.5773e-01	1.9002e+00
4	TRV000001	86.5705	87.1995	86.9583	1.7728e-01	1.9002e+00
5	TSR000001	109.0163	110.3525	109.4917	2.7609e-01	1.9011e+00
6	EMPTY	37.7675	38.9168	38.4572	2.6676e-01	1.9010e+00
7	TAO050136	126.0191	126.9326	126.4023	1.7559e-01	1.9021e+00
8	TAO070136	124.1497	125.0701	124.6140	1.9297e-01	1.9020e+00
9	TAO080136	122.8694	123.3786	123.1566	1.4777e-01	1.9019e+00
10	TAO090136	149.0713	149.8707	149.4691	1.8767e-01	1.9042e+00
11	TAO100136	125.9298	126.5408	126.2453	1.3982e-01	1.9021e+00
12	TAO105136	127.1607	128.1772	127.6059	2.6842e-01	1.9022e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	133.6987	134.6125	134.2210	2.1704e-01	1.9028e+00
15	EMPTY	37.3074	37.5374	37.3166	4.5544e-02	1.9009e+00
16	TAO125136	134.9102	135.4149	135.1861	1.3026e-01	1.9029e+00
17	EMPTY	44.6423	45.5552	45.1810	2.1995e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5456	1.1533e-01	1.9012e+00
19	TAO130048	126.1303	126.6385	126.4657	1.4260e-01	1.9021e+00
20	TAO120224	129.1334	129.9461	129.5499	2.0125e-01	1.9024e+00
21	EMPTY	38.9168	39.3761	39.1970	1.2527e-01	1.9010e+00
22	TAO120312	131.3415	132.3564	131.8753	2.7571e-01	1.9026e+00
23	TAO130312	127.1528	127.8637	127.4760	1.9215e-01	1.9022e+00
24	EMPTY	38.9168	39.6057	39.2291	1.8993e-01	1.9010e+00
25	TRT070000	123.3751	123.9899	123.7171	1.5438e-01	1.9019e+00
26	TRT100000	130.1874	131.0994	130.6314	1.9298e-01	1.9025e+00
27	TRT120000	130.0208	130.6299	130.3070	1.4736e-01	1.9024e+00
28	TRT125000	131.7906	132.6982	132.2489	2.1112e-01	1.9026e+00
29	EMPTY	39.6057	40.0646	39.8214	1.2621e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6102	2.1500e-01	1.9011e+00
31	TAF050136	96.5858	97.2104	96.9166	1.7778e-01	1.9005e+00
32	TAF070136	99.9066	101.1457	100.4623	2.3890e-01	1.9006e+00
33	TAF080136	101.1973	102.0228	101.5421	1.7417e-01	1.9007e+00
34	TAF090136	102.6786	103.6104	103.0952	2.2384e-01	1.9007e+00
35	TAF100136	105.0485	105.7738	105.3616	1.8770e-01	1.9008e+00
36	TAF105136	106.5539	107.5791	106.9209	2.3818e-01	1.9009e+00
37	TAF110136	108.2093	108.8278	108.5163	1.3876e-01	1.9010e+00
38	TAF115136	109.4335	110.3598	109.8763	2.0386e-01	1.9011e+00
39	TAF120136	110.7075	111.2221	110.9767	1.1932e-01	1.9011e+00
40	TAF125136	111.6003	112.3184	111.9384	2.1506e-01	1.9012e+00
41	TAF130136	112.3924	113.0095	112.7069	1.4147e-01	1.9012e+00
42	TAF120048	110.5752	111.6106	111.0619	2.3872e-01	1.9011e+00
43	TAF130048	111.8013	112.2135	112.0052	1.2564e-01	1.9012e+00
44	TAF120224	109.8969	110.6175	110.3272	1.8792e-01	1.9011e+00
45	TAF130224	111.4045	111.8178	111.6590	1.1643e-01	1.9012e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9882	2.1268e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1786	8.0489e-02	1.9010e+00
48	TAI130048	133.2656	133.7719	133.5188	1.3297e-01	1.9027e+00
49	TAI130136	132.5461	133.0524	132.8111	1.1736e-01	1.9027e+00
50	TAI130224	132.8102	133.4186	133.1205	1.5923e-01	1.9027e+00
51	TAI130312	131.9423	132.4493	132.1756	1.4518e-01	1.9026e+00
52	TRR130000	88.4858	89.9482	89.3319	4.0580e-01	1.9003e+00
53	TSI000001	41.5030	42.2634	41.9138	1.7202e-01	1.9005e+00
54	TSI000002	85.1690	86.7416	85.7542	3.9825e-01	1.9002e+00
55	TSO000001	40.7305	41.3875	41.0566	1.7738e-01	1.9006e+00
56	TSO000002	46.9337	47.9099	47.4479	2.3065e-01	1.9003e+00
57	TAF020136	90.3852	91.1220	90.7622	1.6730e-01	1.9003e+00
58	EMPTY	42.8139	43.7285	43.3033	2.4883e-01	1.9013e+00
59	TAF130312	112.7450	113.4641	113.0467	1.8376e-01	1.9012e+00
60	EMPTY	1.1035	1.1084	1.1082	9.6655e-04	0.0000e+00
61	EMPTY	1.1133	1.1182	1.1181	6.9053e-04	0.0000e+00
62	EMPTY	1.1230	1.1279	1.1278	6.9053e-04	0.0000e+00
63	EMPTY	1.1377	1.1426	1.1385	1.8082e-03	0.0000e+00
64	EMPTY	0.6152	0.6201	0.6153	6.9053e-04	0.0000e+00
65	EMPTY	0.6348	0.6348	0.6348	0.0000e+00	0.0000e+00
66	EMPTY	0.6494	0.6543	0.6497	1.1714e-03	0.0000e+00
67	EMPTY	0.6641	0.6689	0.6652	2.1065e-03	0.0000e+00
68	EMPTY	0.6787	0.6836	0.6788	6.9053e-04	0.0000e+00
69	EMPTY	0.6934	0.6982	0.6944	2.0432e-03	0.0000e+00
70	EMPTY	0.7080	0.7129	0.7082	9.6655e-04	0.0000e+00
71	EMPTY	0.7324	0.7324	0.7324	0.0000e+00	0.0000e+00
72	EMPTY	0.7422	0.7471	0.7439	2.3675e-03	0.0000e+00
73	EMPTY	0.7617	0.7617	0.7617	0.0000e+00	0.0000e+00
74	EMPTY	0.7764	0.7764	0.7764	0.0000e+00	0.0000e+00
75	EMPTY	0.7910	0.7959	0.7911	6.9053e-04	0.0000e+00
76	EMPTY	0.8057	0.8057	0.8057	0.0000e+00	0.0000e+00
77	EMPTY	0.8203	0.8252	0.8244	1.8082e-03	0.0000e+00
78	EMPTY	0.8447	0.8447	0.8447	0.0000e+00	0.0000e+00
79	EMPTY	0.8643	0.8691	0.8646	1.1714e-03	0.0000e+00
80	PAN020136	34.4557	37.5074	35.7389	7.2259e-01	8.7458e-01
81	PAN050136	66.4188	67.9447	67.0933	3.9127e-01	1.6884e+00
82	PAN070136	52.4921	53.4076	52.8735	2.1961e-01	8.7998e-01
83	PAN080136	21.9962	22.4540	22.2236	1.2474e-01	8.7177e-01
84	PAN090136	20.9018	21.3596	21.1673	1.0706e-01	8.7161e-01
85	PAN100136	22.0902	22.7006	22.3893	1.2023e-01	8.7180e-01
86	PAN105136	16.1840	16.5654	16.3839	9.1045e-02	8.7096e-01
87	PAN110136	13.5122	13.8174	13.7014	7.2690e-02	8.7067e-01
88	PAN115136	10.4752	10.8566	10.6842	9.3517e-02	8.7041e-01
89	PAN120136	7.9045	8.3623	8.1136	9.2238e-02	8.7024e-01
90	PAN125136	8.7027	9.0842	8.8691	8.6770e-02	8.7028e-01
91	PAN130136	8.1026	8.4840	8.2842	7.6899e-02	8.7025e-01
92	PAN120048	18.8095	19.3436	19.0460	1.0482e-01	8.7130e-01
93	PAN130048	17.4949	18.1053	17.7833	1.3014e-01	8.7114e-01
94	PAN120224	20.2195	20.8299	20.5262	1.3033e-01	8.7151e-01
95	PAN130224	17.4436	17.9014	17.6603	1.1259e-01	8.7112e-01
96	PAN120312	20.5497	21.0837	20.8076	1.2320e-01	8.7155e-01
97	PAN130312	16.2654	16.8758	16.5584	1.3202e-01	8.7098e-01
98	PAB000136	60.0905	60.5025	60.2818	9.1874e-02	5.9926e-01
99	PAB100136	52.0322	52.2610	52.1411	6.4665e-02	5.9447e-01
100	PAB125136	49.9845	50.2134	50.0971	6.0085e-02	5.9337e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.7610	60.4934	60.1370	1.6514e-01	7.6492e-01
102	PRV0000001	19.7336	19.8557	19.7507	4.2787e-02	7.5162e-01
103	PSR0000001	48.2206	48.4647	48.3255	5.5201e-02	7.5967e-01
104	PFM0000001	61.5903	62.9636	62.4546	3.4710e-01	5.2381e-01
105	PAN000136	285.9533	296.0241	289.9450	1.8659e+00	4.9731e+00
106	PFM0000002	27.5773	27.5773	27.5773	9.6336e-06	2.1155e-01
107	EMPTY	0.0045	0.0098	0.0057	1.8082e-03	0.0000e+00
108	EMPTY	-5.3369	-3.3594	-4.3834	5.4794e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	101.7428	102.1334	101.9029	1.4057e-01	1.0149e+00
113	VPW0000002	118.9829	119.3735	119.1352	9.8963e-02	1.0803e+00
114	VPW0000003	146.9126	147.3032	147.0220	1.0559e-01	1.1976e+00
115	VPW0000004	104.5786	105.1645	104.8794	1.1975e-01	1.0257e+00
116	VPW0000005	139.0925	139.4832	139.2919	7.3716e-02	1.1639e+00
117	VPW0000006	145.5003	145.8909	145.6957	1.3087e-01	1.1918e+00
118	IPW0000001	564.7528	570.6098	568.0718	1.8182e+00	9.2601e+00
119	IPW0000002	1284.3107	1288.2131	1285.7551	1.4109e+00	1.2992e+01
120	IPW0000003	1309.4248	1317.2247	1313.5197	1.6362e+00	1.3164e+01
121	IPW0000004	384.9816	385.9581	385.5968	2.9280e-01	3.6441e+00
122	IPW0000005	254.2939	255.2704	254.9385	2.5031e-01	2.8384e+00
123	IPW0000006	266.2166	268.1697	267.0761	3.6326e-01	2.9072e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	3.8409e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0153	2.9611e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0175	2.9742e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0188	3.4681e-03	0.0000e+00
128	IHT0000001	131.4678	134.2022	132.6709	5.2846e-01	4.3093e+00
129	IHT0000002	130.8406	133.1844	131.9461	5.0472e-01	4.3071e+00
130	IHT0000003	129.5410	131.8848	130.4785	5.1448e-01	4.3026e+00
131	IHT0000004	132.0801	134.2285	132.8926	5.5854e-01	4.3100e+00
132	IHT0000005	130.4274	132.3806	131.1501	5.2977e-01	4.3047e+00
133	IHT0000006	125.9728	128.3166	126.7931	5.3087e-01	4.2916e+00
134	IHT0000007	132.1740	134.5177	133.0060	5.3643e-01	4.3103e+00
135	IHT0000008	130.8443	133.1881	131.7037	4.8808e-01	4.3063e+00
136	IHT0000009	130.6829	132.4407	131.4445	4.3984e-01	4.3056e+00
137	IHT0000010	130.7091	133.4435	131.8068	6.1623e-01	4.3067e+00
138	IHT0000011	131.8059	133.9543	132.7628	5.3416e-01	4.3096e+00
139	IHT0000012	130.9984	132.9515	131.8226	5.2983e-01	4.3067e+00
140	IHT0000013	92.0072	94.1556	92.9877	5.3741e-01	4.2041e+00
141	IHT0000014	127.6668	129.6199	128.5731	4.9562e-01	4.2969e+00
142	IHT0000015	94.7341	96.6872	95.7731	4.9037e-01	4.2104e+00
143	IHT0000016	88.8033	90.9518	89.9908	4.9101e-01	4.1976e+00
144	IHT0000017	105.0518	108.3722	106.8604	6.6358e-01	4.2370e+00
145	IHT0000018	107.2040	109.5478	108.1533	5.1146e-01	4.2402e+00
146	IHT0000019	107.2303	109.7694	108.1756	5.6132e-01	4.2403e+00
147	IHT0000020	105.9721	108.9017	107.0385	5.9609e-01	4.2374e+00
148	IHT0000021	-2.9860	0.7249	-1.4743	7.3272e-01	4.1000e+00
149	IHT0000022	92.6270	95.7520	93.9043	6.0901e-01	4.2062e+00
150	IHT0000023	105.1570	108.2820	106.4734	6.0978e-01	4.2360e+00
151	IHT0000024	70.4965	73.6215	71.7309	6.0030e-01	4.1623e+00
152	IHT0000025	102.2724	105.0068	103.5107	5.7536e-01	4.2286e+00
153	IHT0000026	104.6950	107.4294	106.1012	5.8527e-01	4.2351e+00
154	IHT0000027	89.8625	92.2063	91.0891	5.6777e-01	4.2000e+00
155	IHT0000028	91.1846	93.5284	92.1104	5.7698e-01	4.2022e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.1974	108.9318	107.2013	6.0876e-01	4.2378e+00
157	IHT000030	108.5073	111.2417	109.7730	6.2170e-01	4.2444e+00
158	IHT000031	106.3927	108.9318	107.7326	5.9058e-01	4.2392e+00
159	IHT000032	107.4332	110.1675	108.7769	6.3582e-01	4.2418e+00
160	IHT000033	107.2190	110.1487	108.7230	6.3656e-01	4.2417e+00
161	IHT000034	93.9340	96.4731	95.1684	5.4310e-01	4.2090e+00
162	IHT000035	123.7680	126.1118	125.1079	5.4105e-01	4.2866e+00
163	IHT000036	92.6157	94.7641	93.7993	4.5747e-01	4.2059e+00

Velocity 1 = 20.0401 (ft/sec) (+/- 3.4939 %)
 Velocity 2 = 13.3273 (ft/sec) (+/- 3.4863 %)
 Pressure drop = 10.5270 (psi)
 Tsat in = 292.7149 (deg F) Tsat out = 280.7206 (deg F)
 Phi inner = 99.5176 (kBtu/hr-ft2) (+/- 1.5726 %)
 Phi outer = 100.8101 (kBtu/hr-ft2) (+/- 1.5497 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	73.8027	74.4408	74.1152	1.3800e-01	1.9000e+00
1	TRF0000002	74.2377	74.6610	74.4062	1.1412e-01	1.9000e+00
2	TFM0000001	86.0485	86.8867	86.4802	1.6386e-01	1.9002e+00
3	TIN0000001	86.3234	86.8489	86.5211	1.2978e-01	1.9002e+00
4	TRV0000001	86.3613	87.0955	86.7423	2.0023e-01	1.9002e+00
5	TSR0000001	110.3516	111.8914	111.2564	3.1802e-01	1.9011e+00
6	EMPTY	37.9974	38.6870	38.4572	1.9904e-01	1.9010e+00
7	TAO050136	125.4109	126.1221	125.7425	1.4915e-01	1.9021e+00
8	TAO070136	124.2519	125.0701	124.7026	2.1580e-01	1.9020e+00
9	TAO080136	122.7688	123.4804	123.1172	1.5119e-01	1.9019e+00
10	TAO090136	151.7650	152.5624	152.1475	1.8009e-01	1.9045e+00
11	TAO100136	125.8285	126.4387	126.1523	1.6174e-01	1.9021e+00
12	TAO105136	127.0588	128.1772	127.6295	3.0201e-01	1.9022e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	133.6992	134.6120	134.1009	1.9539e-01	1.9028e+00
15	EMPTY	37.3074	37.5374	37.3121	3.2869e-02	1.9009e+00
16	TAO125136	134.7085	135.4145	135.0216	1.3857e-01	1.9028e+00
17	EMPTY	44.8706	45.5552	45.2199	2.0357e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5478	1.1551e-01	1.9012e+00
19	TAO130048	126.2319	126.6385	126.3653	1.0824e-01	1.9021e+00
20	TAO120224	129.0322	129.7431	129.4839	1.7593e-01	1.9024e+00
21	EMPTY	39.1464	39.3761	39.2168	1.0693e-01	1.9010e+00
22	TAO120312	131.2400	132.2548	131.7743	2.4840e-01	1.9026e+00
23	TAO130312	127.1555	127.7624	127.3875	1.3937e-01	1.9022e+00
24	EMPTY	38.9168	39.6057	39.2214	1.6498e-01	1.9010e+00
25	TRT070000	123.0664	123.6814	123.3464	1.5338e-01	1.9019e+00
26	TRT100000	130.2891	130.8970	130.5248	1.5530e-01	1.9025e+00
27	TRT120000	129.9197	130.4272	130.1763	1.3751e-01	1.9024e+00
28	TRT125000	131.6903	132.3972	132.0820	1.8940e-01	1.9026e+00
29	EMPTY	39.6057	40.0646	39.8352	1.3250e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6572	1.8307e-01	1.9011e+00
31	TAF050136	96.6898	97.3133	96.9490	1.6851e-01	1.9005e+00
32	TAF070136	99.9066	101.0440	100.4845	2.1608e-01	1.9006e+00
33	TAF080136	101.1978	101.9205	101.5433	1.5284e-01	1.9007e+00
34	TAF090136	102.5750	103.5070	103.0573	2.5929e-01	1.9007e+00
35	TAF100136	104.9452	105.7738	105.3510	1.9006e-01	1.9008e+00
36	TAF105136	106.3487	107.4781	106.9478	2.4275e-01	1.9009e+00
37	TAF110136	108.1075	108.8273	108.5145	1.4071e-01	1.9010e+00
38	TAF115136	109.5369	110.1543	109.8645	1.8148e-01	1.9011e+00
39	TAF120136	110.7075	111.2216	110.9386	1.2139e-01	1.9011e+00
40	TAF125136	111.4991	112.4195	111.8852	2.5920e-01	1.9012e+00
41	TAF130136	112.2904	112.9064	112.6089	1.2451e-01	1.9012e+00
42	TAF120048	110.5738	111.4033	110.9213	1.8742e-01	1.9011e+00
43	TAF130048	111.6988	112.3159	112.0178	1.3811e-01	1.9012e+00
44	TAF120224	109.7940	110.6175	110.1347	1.9617e-01	1.9011e+00
45	TAF130224	111.1977	111.8178	111.4719	1.4376e-01	1.9012e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9317	2.0992e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1230	9.6591e-02	1.9010e+00
48	TAI130048	133.1642	133.6705	133.3588	1.4441e-01	1.9027e+00
49	TAI130136	132.3448	133.0519	132.6829	1.4379e-01	1.9026e+00
50	TAI130224	132.5052	133.3171	132.9030	1.5335e-01	1.9027e+00
51	TAI130312	131.8406	132.2466	131.9817	1.0514e-01	1.9026e+00
52	TRR130000	87.6502	89.2172	88.6530	3.4044e-01	1.9002e+00
53	TSI000001	41.9370	42.4818	42.2393	1.5735e-01	1.9005e+00
54	TSI000002	85.5886	86.6363	86.1830	2.6040e-01	1.9002e+00
55	TSO000001	41.1680	42.0428	41.5769	1.8098e-01	1.9005e+00
56	TSO000002	47.4762	48.1266	47.8346	1.7594e-01	1.9003e+00
57	TAF020136	90.3857	91.0163	90.7159	1.5018e-01	1.9003e+00
58	EMPTY	42.8139	43.5000	43.1593	2.2447e-01	1.9013e+00
59	TAF130312	112.5398	113.2585	112.9044	1.4839e-01	1.9012e+00
60	EMPTY	1.0986	1.1035	1.1034	6.9754e-04	0.0000e+00
61	EMPTY	1.1133	1.1182	1.1134	6.9754e-04	0.0000e+00
62	EMPTY	1.1182	1.1279	1.1230	9.9670e-04	0.0000e+00
63	EMPTY	1.1328	1.1377	1.1371	1.6172e-03	0.0000e+00
64	EMPTY	0.6104	0.6201	0.6152	9.9670e-04	0.0000e+00
65	EMPTY	0.6299	0.6348	0.6346	9.7615e-04	0.0000e+00
66	EMPTY	0.6445	0.6494	0.6491	1.1827e-03	0.0000e+00
67	EMPTY	0.6641	0.6641	0.6641	0.0000e+00	0.0000e+00
68	EMPTY	0.6738	0.6787	0.6779	1.8234e-03	0.0000e+00
69	EMPTY	0.6885	0.6982	0.6934	9.9670e-04	0.0000e+00
70	EMPTY	0.7080	0.7080	0.7080	0.0000e+00	0.0000e+00
71	EMPTY	0.7275	0.7324	0.7302	2.4538e-03	0.0000e+00
72	EMPTY	0.7422	0.7471	0.7424	9.7615e-04	0.0000e+00
73	EMPTY	0.7568	0.7617	0.7608	1.9103e-03	0.0000e+00
74	EMPTY	0.7715	0.7764	0.7745	2.4037e-03	0.0000e+00
75	EMPTY	0.7861	0.7910	0.7907	1.1827e-03	0.0000e+00
76	EMPTY	0.8008	0.8057	0.8038	2.4037e-03	0.0000e+00
77	EMPTY	0.8203	0.8252	0.8208	1.4934e-03	0.0000e+00
78	EMPTY	0.8398	0.8447	0.8441	1.6172e-03	0.0000e+00
79	EMPTY	0.8643	0.8643	0.8643	0.0000e+00	0.0000e+00
80	PAN020136	34.9897	37.2786	36.0703	5.5375e-01	8.7466e-01
81	PAN050136	66.8766	68.0973	67.4994	3.1891e-01	1.6885e+00
82	PAN070136	52.7209	53.4839	53.0931	2.1446e-01	8.8007e-01
83	PAN080136	22.0725	22.6066	22.3263	1.1379e-01	8.7179e-01
84	PAN090136	21.0544	21.6648	21.2848	1.1910e-01	8.7163e-01
85	PAN100136	22.2428	22.8531	22.5324	1.2745e-01	8.7182e-01
86	PAN105136	16.2603	16.5654	16.4471	7.7962e-02	8.7097e-01
87	PAN110136	13.5885	13.8937	13.7598	7.5544e-02	8.7068e-01
88	PAN115136	10.6277	11.0092	10.7757	8.3005e-02	8.7042e-01
89	PAN120136	7.9808	8.2860	8.1132	7.5936e-02	8.7024e-01
90	PAN125136	8.7790	9.0079	8.8989	6.2294e-02	8.7028e-01
91	PAN130136	8.1789	8.5603	8.3143	8.5676e-02	8.7025e-01
92	PAN120048	18.8858	19.3436	19.1318	1.1577e-01	8.7131e-01
93	PAN130048	17.6475	18.1816	17.8873	1.2361e-01	8.7115e-01
94	PAN120224	20.4484	20.9825	20.6431	1.1344e-01	8.7153e-01
95	PAN130224	17.5199	17.9776	17.7519	1.1008e-01	8.7113e-01
96	PAN120312	20.7786	21.1600	20.9514	1.2630e-01	8.7158e-01
97	PAN130312	16.3417	16.8758	16.6282	1.1179e-01	8.7099e-01
98	PAB000136	59.8616	60.3194	60.0961	1.0263e-01	5.9914e-01
99	PAB100136	51.8033	51.9864	51.8911	4.4653e-02	5.9433e-01
100	PAB125136	49.7557	49.8930	49.8453	4.0686e-02	5.9324e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.5168	60.2493	59.8457	1.8003e-01	7.6478e-01
102	PRV000001	19.9778	20.0998	19.9927	4.0430e-02	7.5166e-01
103	PSR000001	47.9764	48.0985	48.0786	4.5586e-02	7.5957e-01
104	PFM000001	62.0481	63.3298	62.6479	2.7533e-01	5.2396e-01
105	PAN000136	285.4955	296.0241	291.4464	1.9556e+00	4.9737e+00
106	PFM000002	27.5773	27.5773	27.5773	9.6356e-06	2.1155e-01
107	EMPTY	0.0049	0.0098	0.0071	2.4538e-03	0.0000e+00
108	EMPTY	-6.2744	-3.5596	-4.7664	6.8690e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0049	1.4095e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.9381	102.3287	102.0457	1.2646e-01	1.0154e+00
113	VPW000002	118.9829	119.5688	119.2300	1.1810e-01	1.0807e+00
114	VPW000003	146.9126	147.1079	147.0680	7.9532e-02	1.1978e+00
115	VPW000004	104.7739	105.1645	104.9732	1.0156e-01	1.0261e+00
116	VPW000005	139.0925	139.6785	139.4115	1.1755e-01	1.1644e+00
117	VPW000006	145.5003	145.8909	145.7276	1.0806e-01	1.1919e+00
118	IPW000001	562.8005	570.6098	566.3465	1.5266e+00	9.2535e+00
119	IPW000002	1286.2620	1290.1644	1289.1290	1.1337e+00	1.3013e+01
120	IPW000003	1309.4248	1317.2247	1313.2450	1.6868e+00	1.3162e+01
121	IPW000004	382.5402	384.9816	383.5566	7.4477e-01	3.6306e+00
122	IPW000005	254.2939	255.7586	255.0014	3.1611e-01	2.8387e+00
123	IPW000006	265.7283	267.6815	266.7150	4.2858e-01	2.9051e+00
124	EMPTY	-0.0293	-0.0146	-0.0208	3.8312e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0154	2.8796e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0183	3.2344e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0175	3.8497e-03	0.0000e+00
128	IHT000001	131.6632	133.6163	132.4962	5.1021e-01	4.3088e+00
129	IHT000002	131.0359	133.1844	131.9049	5.2447e-01	4.3070e+00
130	IHT000003	129.5410	131.6894	130.4777	5.0584e-01	4.3026e+00
131	IHT000004	132.0801	134.2285	132.9371	4.8142e-01	4.3101e+00
132	IHT000005	130.2321	131.9899	131.0970	4.2192e-01	4.3045e+00
133	IHT000006	125.9728	127.7306	126.8258	4.2697e-01	4.2917e+00
134	IHT000007	132.1740	134.1271	133.0190	4.4997e-01	4.3104e+00
135	IHT000008	130.8443	132.9928	131.7730	4.4668e-01	4.3066e+00
136	IHT000009	130.4875	132.4407	131.4999	5.2540e-01	4.3057e+00
137	IHT000010	130.9044	132.8576	131.7215	4.5048e-01	4.3064e+00
138	IHT000011	132.0012	133.7590	132.6668	4.0642e-01	4.3093e+00
139	IHT000012	130.9984	132.9515	131.7398	4.2376e-01	4.3065e+00
140	IHT000013	92.2025	94.5463	93.0476	4.4106e-01	4.2043e+00
141	IHT000014	127.8621	129.8152	128.7032	4.3345e-01	4.2973e+00
142	IHT000015	94.7341	96.8825	95.7585	4.2104e-01	4.2103e+00
143	IHT000016	88.9987	91.1471	90.0389	4.0538e-01	4.1977e+00
144	IHT000017	104.4659	107.5909	105.6218	6.3768e-01	4.2339e+00
145	IHT000018	107.0087	109.1572	107.9415	4.6539e-01	4.2397e+00
146	IHT000019	107.0350	109.3788	108.0913	4.1988e-01	4.2401e+00
147	IHT000020	106.1674	107.9252	106.8650	3.9265e-01	4.2370e+00
148	IHT000021	-2.7907	-0.8376	-1.7584	4.3308e-01	4.1000e+00
149	IHT000022	92.8223	94.3848	93.7630	3.1562e-01	4.2058e+00
150	IHT000023	105.5476	106.9148	106.2492	3.3810e-01	4.2354e+00
151	IHT000024	70.6918	72.0590	71.5090	3.4220e-01	4.1619e+00
152	IHT000025	102.4677	104.0302	103.2729	3.9393e-01	4.2281e+00
153	IHT000026	104.8903	106.4528	105.8549	3.7060e-01	4.2344e+00
154	IHT000027	89.6672	91.6104	90.9427	3.7844e-01	4.1996e+00
155	IHT000028	90.9893	93.5284	92.0296	6.5435e-01	4.2020e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8068	108.5412	107.0066	6.6473e-01	4.2373e+00
157	IHT000030	108.3120	110.8511	109.5756	6.7670e-01	4.2439e+00
158	IHT000031	106.3927	109.1271	107.5287	6.6314e-01	4.2387e+00
159	IHT000032	107.4332	109.9722	108.5173	6.5030e-01	4.2412e+00
160	IHT000033	107.4144	109.9534	108.4507	6.5535e-01	4.2410e+00
161	IHT000034	93.9340	96.2778	95.0541	5.1640e-01	4.2087e+00
162	IHT000035	123.9633	126.1118	125.0476	5.1530e-01	4.2865e+00
163	IHT000036	92.4204	94.5688	93.6521	4.9668e-01	4.2056e+00

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Velocity 1 = 0.031000 (ft/sec)

Velocity 2 = 0.000100 (ft/sec)

Pressure Drop = 0.054200 (psi)

Tsat in = 0.204803 (deg F) Tsat out = 0.313385 (deg F)

Phi inner = 0.010300 (kBtu/hr-ft2) Phi outer = 0.101997 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0615	0.0830
1	TRF000002	0.0499	0.0671
2	TFM000001	0.0696	0.0805
3	TIN000001	0.0355	0.0410
4	TRV000001	0.2160	0.2484
5	TSR000001	1.7647	1.6117
6	EMPTY	0.0000	0.0000
7	TAO050136	0.6598	0.5220
8	TAO070136	0.0886	0.0711
9	TAO080136	0.0394	0.0320
10	TAO090136	2.6784	1.7919
11	TAO100136	0.0930	0.0737
12	TAO105136	0.0236	0.0185
13	EMPTY	0.0000	0.0000
14	TAO115136	0.1201	0.0895
15	EMPTY	0.0045	0.0121
16	TAO125136	0.1645	0.1217
17	EMPTY	0.0389	0.0861
18	EMPTY	0.0022	0.0053
19	TAO130048	0.1004	0.0794
20	TAO120224	0.0660	0.0509
21	EMPTY	0.0198	0.0505
22	TAO120312	0.1010	0.0766
23	TAO130312	0.0885	0.0694
24	EMPTY	0.0077	0.0196
25	TRT070000	0.3707	0.2996
26	TRT100000	0.1066	0.0816
27	TRT120000	0.1307	0.1003
28	TRT125000	0.1669	0.1262
29	EMPTY	0.0138	0.0347
30	EMPTY	0.0470	0.1187
31	TAF050136	0.0324	0.0334
32	TAF070136	0.0222	0.0221
33	TAF080136	0.0012	0.0012
34	TAF090136	0.0379	0.0368
35	TAF100136	0.0106	0.0101
36	TAF105136	0.0269	0.0252
37	TAF110136	0.0018	0.0017
38	TAF115136	0.0118	0.0107
39	TAF120136	0.0381	0.0343
40	TAF125136	0.0532	0.0475
41	TAF130136	0.0980	0.0870
42	TAF120048	0.1406	0.1266
43	TAF130048	0.0126	0.0112
44	TAF120224	0.1925	0.1745
45	TAF130224	0.1871	0.1676

#	Name	Abs Diff	%Diff
46	EMPTY	0.0565	0.1487
47	EMPTY	0.0556	0.1419
48	TAI130048	0.1600	0.1198
49	TAI130136	0.1282	0.0965
50	TAI130224	0.2175	0.1634
51	TAI130312	0.1939	0.1467
52	TRR130000	0.6789	0.7600
53	TSI000001	0.3255	0.7766
54	TSI000002	0.4288	0.5000
55	TSO000001	0.5203	1.2673
56	TSO000002	0.3867	0.8150
57	TAF020136	0.0463	0.0510
58	EMPTY	0.1440	0.3325
59	TAF130312	0.1423	0.1259
60	EMPTY	0.0048	0.4331
61	EMPTY	0.0047	0.4204
62	EMPTY	0.0048	0.4256
63	EMPTY	0.0014	0.1230
64	EMPTY	0.0001	0.0163
65	EMPTY	0.0002	0.0315
66	EMPTY	0.0006	0.0923
67	EMPTY	0.0011	0.1654
68	EMPTY	0.0009	0.1326
69	EMPTY	0.0010	0.1440
70	EMPTY	0.0002	0.0282
71	EMPTY	0.0022	0.3004
72	EMPTY	0.0015	0.2016
73	EMPTY	0.0009	0.1182
74	EMPTY	0.0019	0.2447
75	EMPTY	0.0004	0.0506
76	EMPTY	0.0019	0.2358
77	EMPTY	0.0036	0.4367
78	EMPTY	0.0006	0.0710
79	EMPTY	0.0003	0.0347
80	PAN020136	0.3314	0.9273
81	PAN050136	0.4061	0.6053
82	PAN070136	0.2196	0.4153
83	PAN080136	0.1027	0.4621
84	PAN090136	0.1175	0.5551
85	PAN100136	0.1431	0.6391
86	PAN105136	0.0632	0.3857
87	PAN110136	0.0584	0.4262
88	PAN115136	0.0915	0.8564
89	PAN120136	0.0004	0.0049
90	PAN125136	0.0298	0.3360
91	PAN130136	0.0301	0.3633
92	PAN120048	0.0858	0.4505
93	PAN130048	0.1040	0.5848
94	PAN120224	0.1169	0.5695
95	PAN130224	0.0916	0.5187
96	PAN120312	0.1438	0.6911
97	PAN130312	0.0698	0.4215
98	PAB000136	0.1857	0.3081
99	PAB100136	0.2500	0.4795
100	PAB125136	0.2518	0.5026

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2913	0.4844
102	PRV000001	0.2420	1.2253
103	PSR000001	0.2469	0.5109
104	PFM000001	0.1933	0.3095
105	PAN000136	1.5014	0.5178
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0014	24.5614
108	EMPTY	0.3830	8.7375
109	EMPTY	0.0001	2.0833
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.1428	0.1401
113	VPW000002	0.0948	0.0796
114	VPW000003	0.0460	0.0313
115	VPW000004	0.0938	0.0894
116	VPW000005	0.1196	0.0859
117	VPW000006	0.0319	0.0219
118	IPW000001	1.7253	0.3037
119	IPW000002	3.3739	0.2624
120	IPW000003	0.2747	0.0209
121	IPW000004	2.0402	0.5291
122	IPW000005	0.0629	0.0247
123	IPW000006	0.3611	0.1352
124	EMPTY	0.0009	4.1475
125	EMPTY	0.0001	0.6536
126	EMPTY	0.0008	4.5714
127	EMPTY	0.0013	6.9149
128	IHT000001	0.1747	0.1317
129	IHT000002	0.0412	0.0312
130	IHT000003	0.0008	0.0006
131	IHT000004	0.0445	0.0335
132	IHT000005	0.0531	0.0405
133	IHT000006	0.0327	0.0258
134	IHT000007	0.0130	0.0098
135	IHT000008	0.0693	0.0526
136	IHT000009	0.0554	0.0421
137	IHT000010	0.0853	0.0647
138	IHT000011	0.0960	0.0723
139	IHT000012	0.0828	0.0628
140	IHT000013	0.0599	0.0644
141	IHT000014	0.1301	0.1012
142	IHT000015	0.0146	0.0152
143	IHT000016	0.0481	0.0535
144	IHT000017	1.2386	1.1591
145	IHT000018	0.2118	0.1958
146	IHT000019	0.0843	0.0779
147	IHT000020	0.1735	0.1621
148	IHT000021	0.2841	19.2702
149	IHT000022	0.1413	0.1505
150	IHT000023	0.2242	0.2106
151	IHT000024	0.2219	0.3094
152	IHT000025	0.2378	0.2297
153	IHT000026	0.2463	0.2321
154	IHT000027	0.1464	0.1607
155	IHT000028	0.0808	0.0877

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1947	0.1816
157	IHT000030	0.1974	0.1798
158	IHT000031	0.2039	0.1893
159	IHT000032	0.2596	0.2387
160	IHT000033	0.2723	0.2505
161	IHT000034	0.1143	0.1201
162	IHT000035	0.0603	0.0482
163	IHT000036	0.1472	0.1569

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Velocity 1 = 14.0032 (ft/sec) (+/- 3.5667 %)
Velocity 2 = 13.3273 (ft/sec) (+/- 3.4863 %)
Pressure drop = 2.4920 (psi)
Tsat in = 292.9006 (deg F) Tsat out = 290.1494 (deg F)
Phi inner = 99.5382 (kBtu/hr-ft2) (+/- 1.5725 %)
Phi outer = 100.7145 (kBtu/hr-ft2) (+/- 1.5503 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8027	74.4408	74.1940	1.8412e-01	1.9000e+00
1	TRF000002	74.2377	74.6610	74.5256	1.1115e-01	1.9000e+00
2	TFM000001	85.9431	86.8872	86.4466	2.2120e-01	1.9002e+00
3	TIN000001	86.0084	86.9542	86.3994	1.7385e-01	1.9002e+00
4	TRV000001	86.0480	87.4094	86.5927	2.6338e-01	1.9002e+00
5	TSR000001	117.8204	118.5359	118.2332	1.5317e-01	1.9016e+00
6	EMPTY	37.9974	38.9168	38.4158	2.2118e-01	1.9010e+00
7	TAO050136	134.6056	135.1105	134.9284	1.4275e-01	1.9028e+00
8	TAO070136	133.1314	134.0455	133.5256	2.1582e-01	1.9027e+00
9	TAO080136	134.3853	135.0911	134.7923	1.7410e-01	1.9028e+00
10	TAO090136	161.9904	162.8811	162.5049	2.0876e-01	1.9058e+00
11	TAO100136	139.4852	139.9890	139.7793	1.4934e-01	1.9033e+00
12	TAO105136	140.5150	141.7223	141.1347	2.7826e-01	1.9034e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	148.2509	149.0537	148.7006	1.9682e-01	1.9042e+00
15	EMPTY	37.3074	37.7675	37.5926	1.1903e-01	1.9010e+00
16	TAO125136	150.4147	151.1125	150.7058	1.5067e-01	1.9044e+00
17	EMPTY	44.8706	45.5552	45.1719	1.8116e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5319	1.1336e-01	1.9012e+00
19	TAO130048	140.2400	140.9431	140.6014	1.4510e-01	1.9034e+00
20	TAO120224	144.0760	144.5782	144.3412	1.5284e-01	1.9037e+00
21	EMPTY	39.1464	39.3761	39.2199	1.0821e-01	1.9010e+00
22	TAO120312	146.4854	147.5891	147.0354	2.3830e-01	1.9040e+00
23	TAO130312	141.4755	142.1787	141.7529	1.7294e-01	1.9035e+00
24	EMPTY	38.9168	39.6057	39.2888	1.9065e-01	1.9010e+00
25	TRT070000	135.0323	135.7430	135.3410	1.6904e-01	1.9029e+00
26	TRT100000	144.5889	145.3914	144.9182	1.7781e-01	1.9038e+00
27	TRT120000	145.1459	145.8480	145.4548	1.7175e-01	1.9038e+00
28	TRT125000	147.0074	147.7062	147.2870	1.8152e-01	1.9040e+00
29	EMPTY	39.6057	40.0646	39.8535	1.1204e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6424	1.8757e-01	1.9011e+00
31	TAF050136	100.4182	101.2476	100.8373	1.9631e-01	1.9006e+00
32	TAF070136	104.9555	105.8828	105.3758	2.3626e-01	1.9008e+00
33	TAF080136	106.8474	107.5674	107.1354	1.8006e-01	1.9009e+00
34	TAF090136	108.8765	109.8042	109.3589	2.2370e-01	1.9010e+00
35	TAF100136	112.2820	113.0030	112.6323	1.8842e-01	1.9012e+00
36	TAF105136	114.3091	115.5339	114.8772	2.5833e-01	1.9014e+00
37	TAF110136	116.8028	117.5182	117.0931	1.8408e-01	1.9015e+00
38	TAF115136	118.4522	119.3721	118.9101	2.2169e-01	1.9016e+00
39	TAF120136	120.0973	120.7101	120.4894	1.5894e-01	1.9017e+00
40	TAF125136	121.4744	122.2873	121.8526	2.5724e-01	1.9018e+00
41	TAF130136	122.7115	123.2219	122.9894	1.3204e-01	1.9019e+00
42	TAF120048	120.1836	121.2118	120.7963	2.7302e-01	1.9017e+00
43	TAF130048	122.0421	122.7566	122.3973	1.4912e-01	1.9018e+00
44	TAF120224	119.6285	120.4462	120.0498	2.0606e-01	1.9017e+00
45	TAF130224	122.0130	122.7297	122.3120	1.7529e-01	1.9018e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9100	2.0719e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1970	9.6091e-02	1.9010e+00
48	TAI130048	148.5620	149.0625	148.7702	1.4137e-01	1.9042e+00
49	TAI130136	148.0929	148.5928	148.2610	1.4630e-01	1.9041e+00
50	TAI130224	148.4484	149.0497	148.7211	1.5821e-01	1.9042e+00
51	TAI130312	147.2675	147.7688	147.4601	1.5269e-01	1.9040e+00
52	TRR130000	95.3590	97.1243	96.3185	4.5057e-01	1.9005e+00
53	TSI000001	40.9596	41.7216	41.3731	1.9906e-01	1.9006e+00
54	TSI000002	86.7408	88.1013	87.4606	3.0472e-01	1.9002e+00
55	TSO000001	40.0725	40.8383	40.4753	1.8292e-01	1.9006e+00
56	TSO000002	47.1507	48.1267	47.6713	2.0901e-01	1.9003e+00
57	TAF020136	91.9639	93.0155	92.4555	2.2991e-01	1.9003e+00
58	EMPTY	42.8139	43.7285	43.2622	2.3988e-01	1.9013e+00
59	TAF130312	123.6786	124.3916	123.9192	1.7679e-01	1.9020e+00
60	EMPTY	1.3574	1.3672	1.3621	1.3811e-03	0.0000e+00
61	EMPTY	1.3672	1.3721	1.3708	2.1635e-03	0.0000e+00
62	EMPTY	1.3721	1.3818	1.3775	1.8821e-03	0.0000e+00
63	EMPTY	1.3867	1.3916	1.3898	2.3675e-03	0.0000e+00
64	EMPTY	0.7227	0.7275	0.7250	2.4642e-03	0.0000e+00
65	EMPTY	0.7422	0.7471	0.7424	9.6655e-04	0.0000e+00
66	EMPTY	0.7568	0.7568	0.7568	0.0000e+00	0.0000e+00
67	EMPTY	0.7715	0.7764	0.7722	1.7115e-03	0.0000e+00
68	EMPTY	0.7813	0.7861	0.7854	1.8082e-03	0.0000e+00
69	EMPTY	0.7959	0.8008	0.8006	9.6655e-04	0.0000e+00
70	EMPTY	0.8154	0.8154	0.8154	0.0000e+00	0.0000e+00
71	EMPTY	0.8350	0.8398	0.8351	6.9053e-04	0.0000e+00
72	EMPTY	0.8447	0.8496	0.8487	1.8950e-03	0.0000e+00
73	EMPTY	0.8643	0.8643	0.8643	0.0000e+00	0.0000e+00
74	EMPTY	0.8740	0.8789	0.8787	9.6655e-04	0.0000e+00
75	EMPTY	0.8936	0.8984	0.8938	9.6655e-04	0.0000e+00
76	EMPTY	0.9033	0.9082	0.9067	2.2603e-03	0.0000e+00
77	EMPTY	0.9229	0.9277	0.9230	9.6655e-04	0.0000e+00
78	EMPTY	0.9424	0.9473	0.9438	2.2603e-03	0.0000e+00
79	EMPTY	0.9619	0.9717	0.9668	9.8648e-04	0.0000e+00
80	PAN020136	7.7528	9.5839	8.6012	4.0712e-01	8.7027e-01
81	PAN050136	14.8441	15.7597	15.2500	2.1271e-01	1.6804e+00
82	PAN070136	13.5822	14.2688	13.9316	1.5109e-01	8.7070e-01
83	PAN080136	4.6775	5.2116	4.8927	1.0419e-01	8.7009e-01
84	PAN090136	4.1934	4.4986	4.3094	8.0447e-02	8.7007e-01
85	PAN100136	5.0004	5.3818	5.1835	1.0899e-01	8.7010e-01
86	PAN105136	4.9688	5.2739	5.1488	8.5487e-02	8.7010e-01
87	PAN110136	3.5940	3.8992	3.7115	6.2058e-02	8.7005e-01
88	PAN115136	2.3880	2.6169	2.4780	6.4829e-02	8.7002e-01
89	PAN120136	0.9618	1.2670	1.1083	6.1346e-02	8.7000e-01
90	PAN125136	1.3785	1.6074	1.5052	7.4895e-02	8.7001e-01
91	PAN130136	1.0072	1.3887	1.2117	9.4314e-02	8.7001e-01
92	PAN120048	3.0167	3.3981	3.2272	8.3803e-02	8.7004e-01
93	PAN130048	2.8465	3.3043	3.0525	9.8996e-02	8.7003e-01
94	PAN120224	4.1215	4.5030	4.3031	9.4879e-02	8.7007e-01
95	PAN130224	2.7952	3.2529	3.0271	9.2431e-02	8.7003e-01
96	PAN120312	4.3754	4.8331	4.6042	9.9892e-02	8.7008e-01
97	PAN130312	2.3036	2.7614	2.5478	9.7485e-02	8.7002e-01
98	PAB000136	60.0447	60.4109	60.2644	8.1153e-02	5.9925e-01
99	PAB100136	58.1662	58.3493	58.2513	4.1370e-02	5.9800e-01
100	PAB125136	57.7207	57.9039	57.8004	4.4169e-02	5.9773e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.7610	60.4934	60.0881	1.6624e-01	7.6490e-01
102	PRV0000001	19.7336	19.8557	19.8484	2.9284e-02	7.5164e-01
103	PSR0000001	57.0096	57.1317	57.0633	6.1209e-02	7.6345e-01
104	PFM0000001	30.0962	30.9201	30.4661	1.7929e-01	5.0577e-01
105	PAN000136	65.7690	71.7199	68.9916	1.4326e+00	4.9230e+00
106	PFM0000002	27.5773	27.5773	27.5773	9.6336e-06	2.1155e-01
107	EMPTY	0.0049	0.0098	0.0059	1.9730e-03	0.0000e+00
108	EMPTY	-6.2598	-3.5352	-4.4557	6.2557e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0045	1.3381e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	101.7428	102.3287	102.0123	1.7598e-01	1.0153e+00
113	VPW0000002	118.9829	119.5688	119.1743	1.5530e-01	1.0805e+00
114	VPW0000003	146.7173	147.3032	146.9946	1.4812e-01	1.1975e+00
115	VPW0000004	104.5786	105.1645	104.8677	1.4358e-01	1.0257e+00
116	VPW0000005	138.8972	139.8738	139.3504	1.9507e-01	1.1641e+00
117	VPW0000006	145.3050	146.0862	145.7308	1.5630e-01	1.1919e+00
118	IPW0000001	560.8481	568.6575	563.8937	1.7265e+00	9.2442e+00
119	IPW0000002	1284.3107	1296.0183	1289.4233	2.1189e+00	1.3014e+01
120	IPW0000003	1311.3748	1317.2247	1314.2997	1.7285e+00	1.3169e+01
121	IPW0000004	383.0284	385.9581	384.6886	6.9754e-01	3.6381e+00
122	IPW0000005	253.8057	255.7586	254.7920	4.1251e-01	2.8375e+00
123	IPW0000006	265.7283	267.6815	266.6366	4.1864e-01	2.9047e+00
124	EMPTY	-0.0293	-0.0098	-0.0187	3.7809e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0127	3.1195e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0155	3.3728e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0173	3.7186e-03	0.0000e+00
128	IHT0000001	131.6632	133.6163	132.5655	5.2183e-01	4.3090e+00
129	IHT0000002	131.0359	132.9890	131.9071	4.9945e-01	4.3070e+00
130	IHT0000003	129.7363	131.8848	130.5840	5.0626e-01	4.3029e+00
131	IHT0000004	132.0801	134.0332	133.0098	4.8095e-01	4.3104e+00
132	IHT0000005	130.0368	131.9899	131.1696	4.7842e-01	4.3047e+00
133	IHT0000006	125.7775	127.7306	126.8712	4.4817e-01	4.2918e+00
134	IHT0000007	131.9787	133.9318	133.0568	4.7881e-01	4.3105e+00
135	IHT0000008	130.8443	132.9928	131.8091	4.8232e-01	4.3067e+00
136	IHT0000009	130.2922	132.4407	131.4992	5.0792e-01	4.3057e+00
137	IHT0000010	130.3185	132.8576	131.6310	6.1894e-01	4.3061e+00
138	IHT0000011	131.4153	133.7590	132.5793	5.2787e-01	4.3090e+00
139	IHT0000012	130.4124	132.9515	131.6429	5.6117e-01	4.3062e+00
140	IHT0000013	91.8119	94.1556	92.8784	4.9945e-01	4.2039e+00
141	IHT0000014	127.2762	129.6199	128.5145	4.8905e-01	4.2967e+00
142	IHT0000015	94.5388	96.6872	95.5856	4.3362e-01	4.2099e+00
143	IHT0000016	88.8033	90.9518	89.8541	4.4097e-01	4.1973e+00
144	IHT0000017	105.0518	107.9815	106.6690	6.3139e-01	4.2365e+00
145	IHT0000018	106.8134	109.3525	107.9697	5.2176e-01	4.2398e+00
146	IHT0000019	107.4256	109.5741	108.3085	4.9322e-01	4.2406e+00
147	IHT0000020	105.9721	108.3158	106.9799	5.3432e-01	4.2373e+00
148	IHT0000021	-2.7907	0.1390	-1.5759	6.5112e-01	4.1000e+00
149	IHT0000022	92.8223	95.1660	93.7637	4.8277e-01	4.2058e+00
150	IHT0000023	105.3523	107.5008	106.3797	5.2022e-01	4.2358e+00
151	IHT0000024	70.6918	72.6450	71.6137	4.8495e-01	4.1621e+00
152	IHT0000025	102.6630	104.8114	103.5224	4.9599e-01	4.2287e+00
153	IHT0000026	105.2810	107.0388	106.0505	4.6255e-01	4.2349e+00
154	IHT0000027	90.2532	92.4016	91.0344	4.7021e-01	4.1998e+00
155	IHT0000028	90.9893	93.5284	92.1104	6.6475e-01	4.2022e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0021	108.5412	107.1388	6.4439e-01	4.2377e+00
157	IHT000030	108.5073	111.0464	109.6753	6.0553e-01	4.2442e+00
158	IHT000031	106.3927	109.3224	107.6349	5.6464e-01	4.2389e+00
159	IHT000032	107.6285	110.3628	108.6558	5.6746e-01	4.2415e+00
160	IHT000033	107.4144	110.3440	108.5863	5.8127e-01	4.2414e+00
161	IHT000034	94.1293	96.0825	95.0786	4.8168e-01	4.2088e+00
162	IHT000035	124.1587	125.9165	125.0610	5.0051e-01	4.2865e+00
163	IHT000036	92.8110	94.7641	93.6587	4.8905e-01	4.2056e+00

Velocity 1 = 14.0048 (ft/sec) (+/- 3.5666 %)
 Velocity 2 = 13.3268 (ft/sec) (+/- 3.4863 %)
 Pressure drop = 2.5224 (psi)
 Tsat in = 292.9754 (deg F) Tsat out = 290.1839 (deg F)
 Phi inner = 100.0025 (kBtu/hr-ft2) (+/- 1.5714 %)
 Phi outer = 101.0962 (kBtu/hr-ft2) (+/- 1.5491 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.0154	74.6534	74.2411	1.7041e-01	1.9000e+00
1	TRF000002	74.4494	74.8725	74.5746	1.2154e-01	1.9000e+00
2	TFM000001	85.5238	86.4682	86.0357	2.1593e-01	1.9002e+00
3	TIN000001	85.6932	86.3238	86.0320	1.7067e-01	1.9002e+00
4	TRV000001	86.1533	86.9911	86.5720	2.1806e-01	1.9002e+00
5	TSR000001	119.0440	119.5556	119.3589	1.5302e-01	1.9016e+00
6	EMPTY	37.9974	38.6870	38.3634	2.1458e-01	1.9010e+00
7	TAO050136	132.5903	133.2981	133.0624	1.5621e-01	1.9027e+00
8	TAO070136	132.7244	133.5373	133.2242	1.8761e-01	1.9027e+00
9	TAO080136	134.1841	134.6895	134.4705	1.5322e-01	1.9028e+00
10	TAO090136	163.4731	164.2642	163.8526	1.9286e-01	1.9059e+00
11	TAO100136	139.0826	139.7878	139.4424	1.7443e-01	1.9032e+00
12	TAO105136	140.4140	141.4209	140.9790	2.8231e-01	1.9034e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	147.9492	148.8528	148.4061	2.1007e-01	1.9041e+00
15	EMPTY	37.5374	37.7675	37.6266	1.1324e-01	1.9010e+00
16	TAO125136	150.1166	150.7148	150.4258	1.5263e-01	1.9044e+00
17	EMPTY	44.6423	45.5552	45.1454	2.3281e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5945	1.0854e-01	1.9012e+00
19	TAO130048	139.8389	140.5423	140.2306	1.5389e-01	1.9033e+00
20	TAO120224	143.7751	144.5782	144.1315	1.8452e-01	1.9037e+00
21	EMPTY	39.1464	39.6057	39.2121	1.1481e-01	1.9010e+00
22	TAO120312	146.3846	147.1881	146.8643	2.2741e-01	1.9040e+00
23	TAO130312	141.2749	141.7776	141.5478	1.4498e-01	1.9034e+00
24	EMPTY	38.9168	39.6057	39.2449	1.8154e-01	1.9010e+00
25	TRT070000	134.4213	135.3359	134.8546	1.8640e-01	1.9028e+00
26	TRT100000	144.0884	144.9909	144.5530	1.9054e-01	1.9037e+00
27	TRT120000	144.7448	145.3470	145.0581	1.4139e-01	1.9038e+00
28	TRT125000	146.5105	147.3087	146.8725	1.9180e-01	1.9040e+00
29	EMPTY	39.6057	40.0646	39.8352	9.3691e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6244	1.8646e-01	1.9011e+00
31	TAF050136	100.2128	100.8341	100.4831	1.6216e-01	1.9006e+00
32	TAF070136	104.3384	105.2662	104.8748	2.2365e-01	1.9008e+00
33	TAF080136	106.2323	106.9532	106.6795	1.8731e-01	1.9009e+00
34	TAF090136	108.4643	109.4954	108.9379	2.7428e-01	1.9010e+00
35	TAF100136	111.8698	112.5910	112.2630	1.9461e-01	1.9012e+00
36	TAF105136	114.1081	114.9244	114.4782	2.3055e-01	1.9013e+00
37	TAF110136	116.1909	117.1106	116.6894	1.8624e-01	1.9015e+00
38	TAF115136	118.0437	118.9638	118.5215	2.2797e-01	1.9016e+00
39	TAF120136	119.7930	120.3040	120.1075	1.5287e-01	1.9017e+00
40	TAF125136	120.9678	122.0842	121.4613	2.5725e-01	1.9018e+00
41	TAF130136	122.4068	122.9173	122.6504	1.6756e-01	1.9019e+00
42	TAF120048	119.8743	120.8003	120.3486	2.0646e-01	1.9017e+00
43	TAF130048	121.6341	122.1448	121.9155	1.5106e-01	1.9018e+00
44	TAF120224	119.3228	120.2422	119.8003	1.7118e-01	1.9017e+00
45	TAF130224	121.7051	122.3196	122.0479	1.4410e-01	1.9018e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9317	2.0992e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1464	1.1483e-01	1.9010e+00
48	TAI130048	148.0618	148.7626	148.3804	1.6051e-01	1.9041e+00
49	TAI130136	147.6939	148.1946	147.9247	1.4461e-01	1.9041e+00
50	TAI130224	148.1475	148.8492	148.5178	1.7627e-01	1.9041e+00
51	TAI130312	146.8665	147.3683	147.2164	1.2964e-01	1.9040e+00
52	TRR130000	95.2550	97.8501	96.5753	7.2447e-01	1.9005e+00
53	TSI000001	41.0689	41.7216	41.3618	1.8337e-01	1.9006e+00
54	TSI000002	86.7410	88.7283	87.7122	5.3505e-01	1.9002e+00
55	TSO000001	39.9622	40.8383	40.4230	2.1770e-01	1.9006e+00
56	TSO000002	47.1507	47.9105	47.5779	1.7763e-01	1.9003e+00
57	TAF020136	91.6479	92.4882	92.0295	1.8276e-01	1.9003e+00
58	EMPTY	42.8139	43.5000	43.1826	2.3719e-01	1.9013e+00
59	TAF130312	123.3738	124.1887	123.6895	1.8162e-01	1.9019e+00
60	EMPTY	1.3477	1.3574	1.3544	2.6022e-03	0.0000e+00
61	EMPTY	1.3574	1.3672	1.3622	1.5727e-03	0.0000e+00
62	EMPTY	1.3672	1.3721	1.3702	2.4037e-03	0.0000e+00
63	EMPTY	1.3770	1.3867	1.3817	1.5727e-03	0.0000e+00
64	EMPTY	0.7178	0.7227	0.7216	2.0584e-03	0.0000e+00
65	EMPTY	0.7373	0.7422	0.7387	2.2287e-03	0.0000e+00
66	EMPTY	0.7520	0.7568	0.7523	1.1827e-03	0.0000e+00
67	EMPTY	0.7666	0.7715	0.7690	2.4662e-03	0.0000e+00
68	EMPTY	0.7813	0.7813	0.7813	0.0000e+00	0.0000e+00
69	EMPTY	0.7959	0.7959	0.7959	0.0000e+00	0.0000e+00
70	EMPTY	0.8105	0.8154	0.8106	6.9754e-04	0.0000e+00
71	EMPTY	0.8301	0.8350	0.8322	2.4414e-03	0.0000e+00
72	EMPTY	0.8447	0.8447	0.8447	0.0000e+00	0.0000e+00
73	EMPTY	0.8594	0.8643	0.8600	1.6172e-03	0.0000e+00
74	EMPTY	0.8740	0.8740	0.8740	0.0000e+00	0.0000e+00
75	EMPTY	0.8887	0.8936	0.8889	9.7615e-04	0.0000e+00
76	EMPTY	0.8984	0.9033	0.9032	6.9754e-04	0.0000e+00
77	EMPTY	0.9180	0.9229	0.9184	1.3508e-03	0.0000e+00
78	EMPTY	0.9375	0.9424	0.9406	2.3783e-03	0.0000e+00
79	EMPTY	0.9619	0.9619	0.9619	0.0000e+00	0.0000e+00
80	PAN020136	7.9817	9.2024	8.5920	3.2256e-01	8.7027e-01
81	PAN050136	14.9967	15.9122	15.4482	2.2880e-01	1.6804e+00
82	PAN070136	13.7347	14.4214	14.0726	1.3306e-01	8.7071e-01
83	PAN080136	4.7538	5.2116	5.0107	1.1305e-01	8.7009e-01
84	PAN090136	4.1934	4.5749	4.3632	8.1319e-02	8.7007e-01
85	PAN100136	5.0767	5.3818	5.2495	8.6395e-02	8.7010e-01
86	PAN105136	4.9688	5.3502	5.1961	8.7392e-02	8.7010e-01
87	PAN110136	3.6703	3.8992	3.7762	6.7554e-02	8.7005e-01
88	PAN115136	2.3117	2.6169	2.5188	6.7883e-02	8.7002e-01
89	PAN120136	0.9618	1.2670	1.0770	7.3249e-02	8.7000e-01
90	PAN125136	1.3785	1.6837	1.5373	8.2166e-02	8.7001e-01
91	PAN130136	1.0835	1.3124	1.2221	7.2502e-02	8.7001e-01
92	PAN120048	3.0930	3.4744	3.2611	9.2107e-02	8.7004e-01
93	PAN130048	2.9228	3.2280	3.1127	7.9596e-02	8.7003e-01
94	PAN120224	4.1978	4.5793	4.3566	1.0544e-01	8.7007e-01
95	PAN130224	2.9477	3.2529	3.0661	9.2214e-02	8.7003e-01
96	PAN120312	4.3754	4.9094	4.6494	1.0202e-01	8.7008e-01
97	PAN130312	2.4562	2.7614	2.6555	8.2136e-02	8.7003e-01
98	PAB000136	60.1363	60.5483	60.3325	7.4166e-02	5.9929e-01
99	PAB100136	58.2120	58.3493	58.2839	4.1788e-02	5.9802e-01
100	PAB125136	57.7665	57.9039	57.8310	4.6644e-02	5.9775e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.8831	60.4934	60.1745	1.4490e-01	7.6494e-01
102	PRV000001	19.9778	20.0998	20.0575	5.8707e-02	7.5167e-01
103	PSR000001	57.0096	57.1317	57.1117	4.5586e-02	7.6347e-01
104	PFM000001	30.1877	30.9201	30.4755	1.6184e-01	5.0577e-01
105	PAN000136	67.1422	72.1776	69.8328	1.3103e+00	4.9231e+00
106	PFM000002	27.5773	27.5773	27.5773	9.6356e-06	2.1155e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-6.9629	-3.5254	-4.8140	8.6795e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0039	1.9883e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.7428	102.3287	102.0656	1.7172e-01	1.0154e+00
113	VPW000002	118.9829	119.3735	119.2141	1.3025e-01	1.0806e+00
114	VPW000003	146.7173	147.4985	147.1039	1.4090e-01	1.1980e+00
115	VPW000004	104.7739	105.3598	104.9852	1.4830e-01	1.0261e+00
116	VPW000005	139.0925	139.6785	139.3637	1.4819e-01	1.1642e+00
117	VPW000006	145.5003	146.0862	145.8392	1.6809e-01	1.1924e+00
118	IPW000001	553.0388	562.8005	559.4934	3.3153e+00	9.2275e+00
119	IPW000002	1299.9208	1309.6771	1303.5845	1.7648e+00	1.3102e+01
120	IPW000003	1313.3248	1325.0248	1320.2495	2.8720e+00	1.3206e+01
121	IPW000004	381.0753	384.4933	382.3409	7.1817e-01	3.6226e+00
122	IPW000005	253.8057	255.2704	254.5430	2.8403e-01	2.8361e+00
123	IPW000006	265.7283	267.6815	266.8744	5.5985e-01	2.9060e+00
124	EMPTY	-0.0293	-0.0146	-0.0216	4.5675e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.9354e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0182	3.5625e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	2.9765e-03	0.0000e+00
128	IHT000001	131.2725	133.8116	132.4723	6.2911e-01	4.3087e+00
129	IHT000002	130.6453	133.1844	131.8292	5.8649e-01	4.3067e+00
130	IHT000003	129.3457	132.0801	130.5176	6.4655e-01	4.3027e+00
131	IHT000004	131.6895	134.2285	132.9211	6.5292e-01	4.3101e+00
132	IHT000005	129.8415	132.3806	131.0930	6.0583e-01	4.3045e+00
133	IHT000006	125.5822	128.3166	126.7939	5.8862e-01	4.2916e+00
134	IHT000007	131.9787	134.3224	133.0389	5.5957e-01	4.3104e+00
135	IHT000008	130.6490	132.9928	131.7411	5.1354e-01	4.3065e+00
136	IHT000009	130.4875	132.8313	131.4521	5.2196e-01	4.3056e+00
137	IHT000010	130.5138	133.0529	131.7694	5.5957e-01	4.3065e+00
138	IHT000011	131.6106	133.7590	132.7186	4.8891e-01	4.3095e+00
139	IHT000012	130.8030	132.9515	131.7796	5.1056e-01	4.3066e+00
140	IHT000013	92.2025	94.5463	93.0675	5.1828e-01	4.2043e+00
141	IHT000014	127.6668	130.0105	128.5597	5.5099e-01	4.2968e+00
142	IHT000015	94.9294	97.0778	95.7545	4.9678e-01	4.2103e+00
143	IHT000016	88.9987	91.3424	90.0230	5.4596e-01	4.1977e+00
144	IHT000017	104.6612	107.9815	106.2874	9.4546e-01	4.2355e+00
145	IHT000018	107.2040	109.7431	108.0929	5.6390e-01	4.2401e+00
146	IHT000019	106.8397	109.7694	108.4381	4.9743e-01	4.2410e+00
147	IHT000020	105.5814	108.3158	107.0722	5.0696e-01	4.2375e+00
148	IHT000021	-2.9860	0.1390	-1.5830	6.0024e-01	4.1000e+00
149	IHT000022	92.6270	95.1660	93.8148	4.5077e-01	4.2060e+00
150	IHT000023	105.5476	107.5008	106.3967	4.1919e-01	4.2358e+00
151	IHT000024	70.6918	72.6450	71.6645	4.0948e-01	4.1622e+00
152	IHT000025	102.6630	104.8114	103.5918	4.3951e-01	4.2288e+00
153	IHT000026	105.2810	107.0388	106.1738	4.6834e-01	4.2352e+00
154	IHT000027	90.2532	92.2063	91.1301	5.2305e-01	4.2001e+00
155	IHT000028	90.9893	92.9425	92.0615	5.0291e-01	4.2021e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.1974	108.3458	107.1222	4.9439e-01	4.2376e+00
157	IHT000030	108.7027	110.8511	109.6394	5.2888e-01	4.2441e+00
158	IHT000031	106.5881	108.7365	107.6164	5.1947e-01	4.2389e+00
159	IHT000032	107.6285	109.7769	108.6409	5.2842e-01	4.2415e+00
160	IHT000033	107.6097	109.7581	108.5623	5.4026e-01	4.2413e+00
161	IHT000034	94.3247	96.6684	95.1976	4.5823e-01	4.2091e+00
162	IHT000035	124.1587	126.5024	125.0794	4.5805e-01	4.2865e+00
163	IHT000036	92.8110	95.1547	93.8354	4.3037e-01	4.2060e+00

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Velocity 1 = 0.001600 (ft/sec)

Velocity 2 = 0.000500 (ft/sec)

Pressure Drop = 0.030400 (psi)

Tsat in = 0.074799 (deg F) Tsat out = 0.034485 (deg F)

Phi inner = 0.464302 (kBtu/hr-ft2) Phi outer = 0.381699 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0471	0.0635
1	TRF000002	0.0490	0.0658
2	TFM000001	0.4109	0.4753
3	TIN000001	0.3674	0.4252
4	TRV000001	0.0207	0.0239
5	TSR000001	1.1257	0.9521
6	EMPTY	0.0524	0.1364
7	TAO050136	1.8660	1.3830
8	TAO070136	0.3014	0.2257
9	TAO080136	0.3218	0.2387
10	TAO090136	1.3477	0.8293
11	TAO100136	0.3369	0.2410
12	TAO105136	0.1557	0.1103
13	EMPTY	0.0000	0.0000
14	TAO115136	0.2945	0.1981
15	EMPTY	0.0340	0.0904
16	TAO125136	0.2800	0.1858
17	EMPTY	0.0265	0.0587
18	EMPTY	0.0626	0.1507
19	TAO130048	0.3708	0.2637
20	TAO120224	0.2097	0.1453
21	EMPTY	0.0078	0.0199
22	TAO120312	0.1711	0.1164
23	TAO130312	0.2051	0.1447
24	EMPTY	0.0439	0.1117
25	TRT070000	0.4864	0.3594
26	TRT100000	0.3652	0.2520
27	TRT120000	0.3967	0.2727
28	TRT125000	0.4145	0.2814
29	EMPTY	0.0183	0.0459
30	EMPTY	0.0180	0.0454
31	TAF050136	0.3542	0.3513
32	TAF070136	0.5010	0.4754
33	TAF080136	0.4559	0.4255
34	TAF090136	0.4210	0.3850
35	TAF100136	0.3693	0.3279
36	TAF105136	0.3990	0.3473
37	TAF110136	0.4037	0.3448
38	TAF115136	0.3886	0.3268
39	TAF120136	0.3819	0.3170
40	TAF125136	0.3913	0.3211
41	TAF130136	0.3390	0.2756
42	TAF120048	0.4477	0.3706
43	TAF130048	0.4818	0.3936
44	TAF120224	0.2495	0.2078
45	TAF130224	0.2641	0.2159

#	Name	Abs Diff	%Diff
46	EMPTY	0.0217	0.0572
47	EMPTY	0.0506	0.1291
48	TAI130048	0.3898	0.2620
49	TAI130136	0.3363	0.2268
50	TAI130224	0.2033	0.1367
51	TAI130312	0.2437	0.1653
52	TRR130000	0.2568	0.2666
53	TSI000001	0.0113	0.0273
54	TSI000002	0.2516	0.2877
55	TSO000001	0.0523	0.1292
56	TSO000002	0.0934	0.1959
57	TAF020136	0.4260	0.4608
58	EMPTY	0.0796	0.1840
59	TAF130312	0.2297	0.1854
60	EMPTY	0.0077	0.5653
61	EMPTY	0.0086	0.6274
62	EMPTY	0.0073	0.5299
63	EMPTY	0.0081	0.5828
64	EMPTY	0.0034	0.4690
65	EMPTY	0.0037	0.4984
66	EMPTY	0.0045	0.5946
67	EMPTY	0.0032	0.4144
68	EMPTY	0.0041	0.5220
69	EMPTY	0.0047	0.5871
70	EMPTY	0.0048	0.5887
71	EMPTY	0.0029	0.3473
72	EMPTY	0.0040	0.4713
73	EMPTY	0.0043	0.4975
74	EMPTY	0.0047	0.5349
75	EMPTY	0.0049	0.5482
76	EMPTY	0.0035	0.3860
77	EMPTY	0.0046	0.4984
78	EMPTY	0.0032	0.3391
79	EMPTY	0.0049	0.5068
80	PAN020136	0.0092	0.1070
81	PAN050136	0.1982	1.2997
82	PAN070136	0.1410	1.0121
83	PAN080136	0.1180	2.4118
84	PAN090136	0.0538	1.2484
85	PAN100136	0.0660	1.2733
86	PAN105136	0.0473	0.9187
87	PAN110136	0.0647	1.7432
88	PAN115136	0.0408	1.6465
89	PAN120136	0.0313	2.8241
90	PAN125136	0.0321	2.1326
91	PAN130136	0.0104	0.8583
92	PAN120048	0.0339	1.0504
93	PAN130048	0.0602	1.9722
94	PAN120224	0.0535	1.2433
95	PAN130224	0.0390	1.2884
96	PAN120312	0.0452	0.9817
97	PAN130312	0.1077	4.2272
98	PAB000136	0.0681	0.1130
99	PAB100136	0.0326	0.0560
100	PAB125136	0.0306	0.0529

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0864	0.1438
102	PRV000001	0.2091	1.0535
103	PSR000001	0.0484	0.0848
104	PFM000001	0.0094	0.0309
105	PAN000136	0.8412	1.2193
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0010	16.9492
108	EMPTY	0.3583	8.0414
109	EMPTY	0.0006	13.3333
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0533	0.0522
113	VPW000002	0.0398	0.0334
114	VPW000003	0.1093	0.0744
115	VPW000004	0.1175	0.1120
116	VPW000005	0.0133	0.0095
117	VPW000006	0.1084	0.0744
118	IPW000001	4.4003	0.7803
119	IPW000002	14.1611	1.0983
120	IPW000003	5.9498	0.4527
121	IPW000004	2.3477	0.6103
122	IPW000005	0.2490	0.0977
123	IPW000006	0.2378	0.0892
124	EMPTY	0.0029	15.5080
125	EMPTY	0.0011	8.6614
126	EMPTY	0.0027	17.4194
127	EMPTY	0.0007	4.0462
128	IHT000001	0.0932	0.0703
129	IHT000002	0.0779	0.0591
130	IHT000003	0.0664	0.0509
131	IHT000004	0.0887	0.0667
132	IHT000005	0.0766	0.0584
133	IHT000006	0.0773	0.0609
134	IHT000007	0.0179	0.0135
135	IHT000008	0.0680	0.0516
136	IHT000009	0.0471	0.0358
137	IHT000010	0.1384	0.1051
138	IHT000011	0.1393	0.1051
139	IHT000012	0.1367	0.1038
140	IHT000013	0.1891	0.2036
141	IHT000014	0.0452	0.0352
142	IHT000015	0.1689	0.1767
143	IHT000016	0.1689	0.1880
144	IHT000017	0.3816	0.3577
145	IHT000018	0.1232	0.1141
146	IHT000019	0.1296	0.1197
147	IHT000020	0.0923	0.0863
148	IHT000021	0.0071	0.4505
149	IHT000022	0.0511	0.0545
150	IHT000023	0.0170	0.0160
151	IHT000024	0.0508	0.0709
152	IHT000025	0.0694	0.0670
153	IHT000026	0.1233	0.1163
154	IHT000027	0.0957	0.1051
155	IHT000028	0.0489	0.0531

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0166	0.0155
157	IHT000030	0.0359	0.0327
158	IHT000031	0.0185	0.0172
159	IHT000032	0.0149	0.0137
160	IHT000033	0.0240	0.0221
161	IHT000034	0.1190	0.1252
162	IHT000035	0.0184	0.0147
163	IHT000036	0.1767	0.1887

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Velocity 1 = 7.9457 (ft/sec) (+/- 4.3218 %)
Velocity 2 = 7.9813 (ft/sec) (+/- 3.5905 %)
Pressure drop = -2.7193 (psi)
Tsat in = 292.5508 (deg F) Tsat out = 295.3867 (deg F)
Phi inner = 99.7054 (kBtu/hr-ft2) (+/- 1.5722 %)
Phi outer = 100.5700 (kBtu/hr-ft2) (+/- 1.5509 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.0154	74.6534	74.4110	1.6646e-01	1.9000e+00
1	TRF000002	74.4494	74.8725	74.7160	1.1154e-01	1.9000e+00
2	TFM000001	86.5735	87.4108	86.9500	1.8462e-01	1.9002e+00
3	TIN000001	86.5335	87.2694	86.9036	2.0052e-01	1.9002e+00
4	TRV000001	86.7806	87.6185	87.1458	2.3002e-01	1.9002e+00
5	TSR000001	126.2614	128.4892	127.4890	5.9741e-01	1.9022e+00
6	EMPTY	37.9974	38.9168	38.4847	2.4849e-01	1.9010e+00
7	TAO050136	161.0241	161.6186	161.3334	1.5172e-01	1.9056e+00
8	TAO070136	162.2093	162.9063	162.4605	1.7537e-01	1.9058e+00
9	TAO080136	163.9240	164.7125	164.3467	1.4779e-01	1.9060e+00
10	TAO090136	194.4486	195.3187	194.8742	1.9725e-01	1.9105e+00
11	TAO100136	173.1785	173.8658	173.4968	1.4920e-01	1.9072e+00
12	TAO105136	174.7052	175.5888	175.0786	2.5853e-01	1.9074e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	185.5301	186.4095	185.9758	2.2783e-01	1.9090e+00
15	EMPTY	31.5371	41.6693	37.3023	3.1167e+00	1.9009e+00
16	TAO125136	190.1154	190.8909	190.5614	1.5902e-01	1.9098e+00
17	EMPTY	44.8706	45.5552	45.2403	2.1569e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5365	1.1421e-01	1.9012e+00
19	TAO130048	175.7559	176.3441	176.0345	1.5243e-01	1.9076e+00
20	TAO120224	181.2137	182.1912	181.6948	2.0311e-01	1.9084e+00
21	EMPTY	38.9168	39.6057	39.1878	1.4441e-01	1.9010e+00
22	TAO120312	184.2086	185.1851	184.6111	2.1846e-01	1.9088e+00
23	TAO130312	177.2141	177.9975	177.6333	1.6192e-01	1.9078e+00
24	EMPTY	38.9168	39.6057	39.3715	2.0480e-01	1.9010e+00
25	TRT070000	165.2321	165.8293	165.5779	1.6471e-01	1.9061e+00
26	TRT100000	179.8876	183.7883	180.3096	5.3500e-01	1.9082e+00
27	TRT120000	182.9184	183.6988	183.3127	1.8487e-01	1.9086e+00
28	TRT125000	184.5129	185.1917	184.8998	1.7966e-01	1.9089e+00
29	EMPTY	39.8352	40.0646	39.9316	1.1440e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6561	2.0368e-01	1.9011e+00
31	TAF050136	112.0521	112.9757	112.4912	2.3430e-01	1.9012e+00
32	TAF070136	119.7807	121.1017	120.4269	2.7231e-01	1.9017e+00
33	TAF080136	123.6462	124.5590	124.0407	2.0937e-01	1.9020e+00
34	TAF090136	127.2916	128.6121	127.8606	2.6753e-01	1.9023e+00
35	TAF100136	133.3360	134.1466	133.7171	1.7437e-01	1.9027e+00
36	TAF105136	136.9030	137.9064	137.3608	2.0949e-01	1.9031e+00
37	TAF110136	140.7432	141.5461	141.1767	1.7711e-01	1.9034e+00
38	TAF115136	143.8359	144.6370	144.1930	1.8129e-01	1.9037e+00
39	TAF120136	146.7733	147.4727	147.1288	1.4989e-01	1.9040e+00
40	TAF125136	148.8680	149.8637	149.4850	2.5864e-01	1.9043e+00
41	TAF130136	151.4001	151.9975	151.7341	1.4490e-01	1.9045e+00
42	TAF120048	145.9711	147.4822	146.6598	2.8603e-01	1.9040e+00
43	TAF130048	149.3974	150.3964	149.8928	1.9980e-01	1.9043e+00
44	TAF120224	145.8964	146.8973	146.4094	2.1927e-01	1.9039e+00
45	TAF130224	150.3227	151.3254	150.9284	1.8449e-01	1.9044e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.3074	38.2273	37.8870	2.1413e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2888	1.1259e-01	1.9010e+00
48	TAI130048	185.9699	186.5548	186.3326	1.3213e-01	1.9091e+00
49	TAI130136	186.5383	187.1221	186.8963	1.3387e-01	1.9092e+00
50	TAI130224	186.6307	187.3133	187.0634	1.7192e-01	1.9092e+00
51	TAI130312	184.5489	185.1342	184.9429	1.1984e-01	1.9089e+00
52	TRR130000	106.9357	108.6858	107.5213	3.9907e-01	1.9009e+00
53	TSI000001	41.7204	42.2653	42.0692	1.4751e-01	1.9005e+00
54	TSI000002	87.8922	89.5646	88.8411	3.6574e-01	1.9002e+00
55	TSO000001	40.5099	41.2754	40.9214	1.6018e-01	1.9006e+00
56	TSO000002	49.8587	50.7247	50.2530	2.1613e-01	1.9003e+00
57	TAF020136	96.6869	97.9432	97.4374	2.6188e-01	1.9005e+00
58	EMPTY	42.5851	43.5000	43.0289	2.3292e-01	1.9012e+00
59	TAF130312	152.3626	153.4589	152.8135	2.3313e-01	1.9046e+00
60	EMPTY	2.0459	2.0605	2.0514	2.7267e-03	0.0000e+00
61	EMPTY	2.0508	2.0605	2.0553	1.6624e-03	0.0000e+00
62	EMPTY	2.0557	2.0605	2.0577	2.4344e-03	0.0000e+00
63	EMPTY	2.0654	2.0703	2.0659	1.4797e-03	0.0000e+00
64	EMPTY	1.0156	1.0205	1.0198	1.7115e-03	0.0000e+00
65	EMPTY	1.0303	1.0352	1.0351	6.9053e-04	0.0000e+00
66	EMPTY	1.0449	1.0547	1.0486	2.3261e-03	0.0000e+00
67	EMPTY	1.0596	1.0645	1.0611	2.3008e-03	0.0000e+00
68	EMPTY	1.0693	1.0742	1.0722	2.4344e-03	0.0000e+00
69	EMPTY	1.0840	1.0889	1.0877	2.1065e-03	0.0000e+00
70	EMPTY	1.0986	1.1035	1.0987	6.9053e-04	0.0000e+00
71	EMPTY	1.1182	1.1230	1.1187	1.4797e-03	0.0000e+00
72	EMPTY	1.1230	1.1328	1.1296	2.5362e-03	0.0000e+00
73	EMPTY	1.1426	1.1475	1.1453	2.4484e-03	0.0000e+00
74	EMPTY	1.1523	1.1621	1.1571	1.2041e-03	0.0000e+00
75	EMPTY	1.1670	1.1719	1.1717	9.6655e-04	0.0000e+00
76	EMPTY	1.1816	1.1816	1.1816	0.0000e+00	0.0000e+00
77	EMPTY	1.1963	1.2012	1.1969	1.6028e-03	0.0000e+00
78	EMPTY	1.2158	1.2207	1.2165	1.7115e-03	0.0000e+00
79	EMPTY	1.2354	1.2402	1.2385	2.3675e-03	0.0000e+00
80	PAN020136	-10.0237	-9.3370	-9.6712	1.7634e-01	8.7034e-01
81	PAN050136	-18.8778	-18.2674	-18.6337	1.5719e-01	1.6806e+00
82	PAN070136	-11.5186	-10.9845	-11.2759	1.1909e-01	8.7046e-01
83	PAN080136	-6.4614	-6.0799	-6.2508	7.7927e-02	8.7014e-01
84	PAN090136	-6.6403	-6.3351	-6.5167	7.5338e-02	8.7015e-01
85	PAN100136	-6.2148	-5.9860	-6.1157	6.7627e-02	8.7013e-01
86	PAN105136	-2.2792	-2.0503	-2.1617	5.6022e-02	8.7002e-01
87	PAN110136	-2.8147	-2.5858	-2.7399	5.8673e-02	8.7003e-01
88	PAN115136	-3.1052	-2.8763	-2.9968	5.7858e-02	8.7003e-01
89	PAN120136	-3.6158	-3.3107	-3.4953	7.8731e-02	8.7004e-01
90	PAN125136	-3.5043	-3.2754	-3.4112	5.8267e-02	8.7004e-01
91	PAN130136	-3.5704	-3.3415	-3.4972	5.7590e-02	8.7004e-01
92	PAN120048	-7.4356	-7.0541	-7.2372	7.3922e-02	8.7019e-01
93	PAN130048	-6.9954	-6.6902	-6.8215	7.7130e-02	8.7017e-01
94	PAN120224	-6.4833	-6.1782	-6.3384	7.1054e-02	8.7014e-01
95	PAN130224	-6.8942	-6.5890	-6.7568	7.7069e-02	8.7016e-01
96	PAN120312	-6.3058	-5.8480	-6.0876	8.5834e-02	8.7013e-01
97	PAN130312	-6.9279	-6.6990	-6.8409	6.5413e-02	8.7017e-01
98	PAB000136	59.7701	60.0905	59.9477	6.9602e-02	5.9905e-01
99	PAB100136	61.8283	62.0572	61.9482	5.6927e-02	6.0032e-01
100	PAB125136	62.4357	62.6646	62.5474	5.5613e-02	6.0071e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.3948	60.0051	59.7317	1.2947e-01	7.6472e-01
102	PRV000001	19.1233	19.2453	19.2209	4.9324e-02	7.5154e-01
103	PSR000001	62.5028	62.6249	62.5247	4.7374e-02	7.6612e-01
104	PFM000001	9.4968	9.8630	9.7092	1.0371e-01	5.0059e-01
105	PAN000136	-77.5111	-72.9334	-75.2863	9.5221e-01	4.9236e+00
106	PFM000002	9.6900	9.9249	9.7974	6.0643e-02	2.0149e-01
107	EMPTY	-0.0049	0.0049	-0.0006	3.7745e-03	0.0000e+00
108	EMPTY	-5.7227	-3.4668	-4.1690	5.4218e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0000	1.3951e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.7428	102.9147	102.2544	2.8424e-01	1.0161e+00
113	VPW000002	118.9829	119.9594	119.3813	2.1598e-01	1.0813e+00
114	VPW000003	146.9126	148.0844	147.3774	2.6438e-01	1.1992e+00
115	VPW000004	104.5786	105.7505	105.1294	2.7815e-01	1.0266e+00
116	VPW000005	139.0925	140.2644	139.6200	2.6248e-01	1.1653e+00
117	VPW000006	145.6956	146.4769	146.0160	2.1885e-01	1.1932e+00
118	IPW000001	560.8481	570.6098	564.8309	2.2645e+00	9.2478e+00
119	IPW000002	1276.5056	1288.2131	1280.4862	3.0779e+00	1.2959e+01
120	IPW000003	1307.4747	1321.1248	1313.1299	3.1823e+00	1.3161e+01
121	IPW000004	383.0284	387.4230	384.7668	1.0019e+00	3.6386e+00
122	IPW000005	253.3175	256.2469	254.6357	6.6352e-01	2.8367e+00
123	IPW000006	265.7283	267.6815	266.5194	5.1154e-01	2.9040e+00
124	EMPTY	-0.0342	-0.0146	-0.0247	3.9961e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0161	2.4662e-03	0.0000e+00
126	EMPTY	-0.0293	-0.0146	-0.0216	3.4300e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0176	3.4173e-03	0.0000e+00
128	IHT000001	130.8819	133.2257	132.2491	5.4534e-01	4.3080e+00
129	IHT000002	130.2547	132.5984	131.6844	5.1666e-01	4.3063e+00
130	IHT000003	129.1504	131.4941	130.4238	5.3414e-01	4.3024e+00
131	IHT000004	131.6895	133.8379	132.7910	5.2014e-01	4.3097e+00
132	IHT000005	129.6462	131.7946	130.9235	5.0565e-01	4.3040e+00
133	IHT000006	125.3869	127.7306	126.6837	4.9404e-01	4.2913e+00
134	IHT000007	131.7833	134.3224	132.8888	5.1842e-01	4.3100e+00
135	IHT000008	130.4537	132.6021	131.6294	4.8727e-01	4.3061e+00
136	IHT000009	129.9016	132.2454	131.3117	5.3712e-01	4.3051e+00
137	IHT000010	130.7091	132.4669	131.5060	5.2325e-01	4.3057e+00
138	IHT000011	131.6106	133.3684	132.4777	4.8834e-01	4.3087e+00
139	IHT000012	130.6077	132.7562	131.5609	5.1846e-01	4.3059e+00
140	IHT000013	92.0072	94.5463	92.9487	5.2894e-01	4.2040e+00
141	IHT000014	127.4715	130.2058	128.4442	5.5732e-01	4.2965e+00
142	IHT000015	94.5388	96.6872	95.5739	5.3996e-01	4.2099e+00
143	IHT000016	88.8033	90.7565	89.8150	5.2599e-01	4.1972e+00
144	IHT000017	104.0753	106.0284	105.2041	5.2835e-01	4.2328e+00
145	IHT000018	107.0087	109.3525	107.7900	5.3815e-01	4.2393e+00
146	IHT000019	107.0350	109.5741	108.2655	5.1335e-01	4.2405e+00
147	IHT000020	105.5814	107.9252	106.8081	5.0074e-01	4.2368e+00
148	IHT000021	-3.3767	-0.6423	-1.7673	5.6298e-01	4.1000e+00
149	IHT000022	92.6270	94.7754	93.5762	5.4105e-01	4.2054e+00
150	IHT000023	105.3523	107.1101	106.1844	4.4610e-01	4.2353e+00
151	IHT000024	70.4965	72.4497	71.3403	4.3840e-01	4.1616e+00
152	IHT000025	102.4677	104.2255	103.2021	4.3684e-01	4.2279e+00
153	IHT000026	105.0056	106.8435	105.7927	4.5998e-01	4.2343e+00
154	IHT000027	89.8625	91.8157	90.7961	5.0577e-01	4.1993e+00
155	IHT000028	90.7940	93.3331	91.8877	6.1763e-01	4.2017e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8068	108.5412	106.8927	6.2410e-01	4.2371e+00
157	IHT000030	108.1167	110.8511	109.4058	6.3748e-01	4.2435e+00
158	IHT000031	106.1974	108.9318	107.4396	6.5049e-01	4.2384e+00
159	IHT000032	107.2378	109.9722	108.3706	6.4356e-01	4.2408e+00
160	IHT000033	107.0237	109.7581	108.3050	6.5335e-01	4.2406e+00
161	IHT000034	93.9340	96.4731	95.0512	5.1906e-01	4.2087e+00
162	IHT000035	123.7680	126.3071	124.9595	5.6393e-01	4.2862e+00
163	IHT000036	92.4204	95.1547	93.6743	5.7058e-01	4.2056e+00

Velocity 1 = 7.9068 (ft/sec) (+/- 4.3370 %)
Velocity 2 = 7.9496 (ft/sec) (+/- 3.5924 %)
Pressure drop = -2.7575 (psi)
Tsat in = 292.7520 (deg F) Tsat out = 295.5919 (deg F)
Phi inner = 100.3142 (kBtu/hr-ft2) (+/- 1.5706 %)
Phi outer = 100.9023 (kBtu/hr-ft2) (+/- 1.5502 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.0154	74.8660	74.3670	1.6558e-01	1.9000e+00
1	TRF000002	74.4494	75.0841	74.7257	1.4456e-01	1.9000e+00
2	TFM000001	85.7340	86.6772	86.1686	2.3254e-01	1.9002e+00
3	TIN000001	85.6931	86.5335	86.0491	1.9283e-01	1.9002e+00
4	TRV000001	85.6300	86.5727	86.1368	1.9520e-01	1.9002e+00
5	TSR000001	130.7132	133.6406	132.1014	7.0174e-01	1.9026e+00
6	EMPTY	37.9974	38.9168	38.3774	2.1268e-01	1.9010e+00
7	TAO050136	155.4843	156.1810	155.9184	1.6309e-01	1.9050e+00
8	TAO070136	161.8124	162.9053	162.2868	2.0807e-01	1.9057e+00
9	TAO080136	162.4488	163.2389	162.8449	1.7615e-01	1.9058e+00
10	TAO090136	183.2895	184.2637	183.8741	1.8870e-01	1.9087e+00
11	TAO100136	172.5893	173.3747	173.0143	1.7868e-01	1.9071e+00
12	TAO105136	174.6073	175.7856	175.1583	2.6491e-01	1.9074e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	184.8449	185.8224	185.3139	2.1398e-01	1.9089e+00
15	EMPTY	32.0000	41.6693	37.0543	2.8407e+00	1.9009e+00
16	TAO125136	189.6328	190.4086	189.9431	1.6197e-01	1.9097e+00
17	EMPTY	44.8706	45.5552	45.1780	1.9514e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5571	1.2479e-01	1.9012e+00
19	TAO130048	175.2686	175.9535	175.5897	1.5991e-01	1.9075e+00
20	TAO120224	180.5297	181.3123	180.9467	1.9428e-01	1.9083e+00
21	EMPTY	39.1464	39.6057	39.2355	1.2237e-01	1.9010e+00
22	TAO120312	184.2086	185.2826	184.6472	2.5532e-01	1.9088e+00
23	TAO130312	177.2141	177.9003	177.5381	1.6003e-01	1.9078e+00
24	EMPTY	38.9168	39.6057	39.3620	2.1686e-01	1.9010e+00
25	TRT070000	163.8376	164.6332	164.2417	1.8849e-01	1.9060e+00
26	TRT100000	179.4971	180.1814	179.8541	1.7340e-01	1.9081e+00
27	TRT120000	182.2355	183.0164	182.6657	1.6427e-01	1.9085e+00
28	TRT125000	184.0262	184.7079	184.3442	2.0674e-01	1.9088e+00
29	EMPTY	39.6057	40.0646	39.9101	1.1839e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6572	2.0025e-01	1.9011e+00
31	TAF050136	110.9238	112.0530	111.4607	2.5946e-01	1.9012e+00
32	TAF070136	118.9660	120.1885	119.6436	2.8305e-01	1.9017e+00
33	TAF080136	122.6365	123.5500	123.0370	2.1918e-01	1.9019e+00
34	TAF090136	125.9700	127.1899	126.7216	2.5312e-01	1.9022e+00
35	TAF100136	132.3218	133.3360	132.6882	1.9939e-01	1.9026e+00
36	TAF105136	135.8034	137.0076	136.3700	2.4687e-01	1.9030e+00
37	TAF110136	139.8423	140.6458	140.2047	1.9091e-01	1.9033e+00
38	TAF115136	142.8334	143.7374	143.3538	2.1247e-01	1.9036e+00
39	TAF120136	145.7765	146.5768	146.1373	1.7179e-01	1.9039e+00
40	TAF125136	148.0742	149.3685	148.7314	2.9070e-01	1.9042e+00
41	TAF130136	150.7013	151.5988	151.0316	1.7539e-01	1.9044e+00
42	TAF120048	145.5660	146.8775	146.1344	2.6889e-01	1.9039e+00
43	TAF130048	148.8974	149.6975	149.3116	2.1207e-01	1.9042e+00
44	TAF120224	145.0964	145.8979	145.5337	1.8136e-01	1.9038e+00
45	TAF130224	149.5197	150.6228	150.0845	2.2107e-01	1.9043e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9786	2.2429e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3620	1.6528e-02	1.9010e+00
48	TAI130048	185.7756	186.4577	186.1372	1.6395e-01	1.9091e+00
49	TAI130136	186.1502	186.8319	186.5670	1.4593e-01	1.9091e+00
50	TAI130224	186.2399	187.0202	186.6143	1.6574e-01	1.9091e+00
51	TAI130312	184.5484	185.2318	184.9230	1.6338e-01	1.9089e+00
52	TRR130000	105.5981	107.2460	106.2522	4.4068e-01	1.9009e+00
53	TSI000001	42.4813	43.3514	42.8162	1.7731e-01	1.9005e+00
54	TSI000002	88.2052	89.8772	89.0223	4.0567e-01	1.9002e+00
55	TSO000001	41.1671	41.9331	41.6069	1.8192e-01	1.9005e+00
56	TSO000002	50.3999	51.4817	50.9363	2.2502e-01	1.9002e+00
57	TAF020136	95.9527	97.2097	96.5204	2.5465e-01	1.9005e+00
58	EMPTY	42.8139	43.5000	43.1920	2.4943e-01	1.9013e+00
59	TAF130312	152.1640	153.2599	152.7535	2.3871e-01	1.9046e+00
60	EMPTY	2.0459	2.0557	2.0506	2.4331e-03	0.0000e+00
61	EMPTY	2.0508	2.0557	2.0544	2.1781e-03	0.0000e+00
62	EMPTY	2.0557	2.0605	2.0579	2.4538e-03	0.0000e+00
63	EMPTY	2.0654	2.0654	2.0654	0.0000e+00	0.0000e+00
64	EMPTY	1.0156	1.0205	1.0183	2.4538e-03	0.0000e+00
65	EMPTY	1.0303	1.0352	1.0350	9.7615e-04	0.0000e+00
66	EMPTY	1.0449	1.0498	1.0473	2.4662e-03	0.0000e+00
67	EMPTY	1.0596	1.0645	1.0598	9.7615e-04	0.0000e+00
68	EMPTY	1.0693	1.0742	1.0704	2.0584e-03	0.0000e+00
69	EMPTY	1.0840	1.0889	1.0857	2.3483e-03	0.0000e+00
70	EMPTY	1.0938	1.0986	1.0985	6.9754e-04	0.0000e+00
71	EMPTY	1.1182	1.1230	1.1184	9.7615e-04	0.0000e+00
72	EMPTY	1.1279	1.1328	1.1282	1.1827e-03	0.0000e+00
73	EMPTY	1.1426	1.1475	1.1435	1.9103e-03	0.0000e+00
74	EMPTY	1.1572	1.1572	1.1572	0.0000e+00	0.0000e+00
75	EMPTY	1.1670	1.1719	1.1713	1.6172e-03	0.0000e+00
76	EMPTY	1.1768	1.1816	1.1815	6.9754e-04	0.0000e+00
77	EMPTY	1.1963	1.2012	1.1966	1.1827e-03	0.0000e+00
78	EMPTY	1.2158	1.2207	1.2160	9.7615e-04	0.0000e+00
79	EMPTY	1.2354	1.2402	1.2375	2.4538e-03	0.0000e+00
80	PAN020136	-10.1763	-9.4133	-9.7543	1.6267e-01	8.7034e-01
81	PAN050136	-19.1830	-18.2674	-18.7719	1.9252e-01	1.6807e+00
82	PAN070136	-11.6711	-11.2897	-11.5123	1.2246e-01	8.7048e-01
83	PAN080136	-6.4614	-6.1562	-6.3197	8.2407e-02	8.7014e-01
84	PAN090136	-6.7929	-6.4114	-6.5936	8.6452e-02	8.7016e-01
85	PAN100136	-6.2911	-5.9860	-6.1759	8.6880e-02	8.7014e-01
86	PAN105136	-2.3555	-2.0503	-2.2044	7.0494e-02	8.7002e-01
87	PAN110136	-2.8910	-2.6621	-2.7695	6.9504e-02	8.7003e-01
88	PAN115136	-3.1815	-2.8763	-3.0055	6.6446e-02	8.7003e-01
89	PAN120136	-3.6158	-3.3870	-3.5193	6.5659e-02	8.7004e-01
90	PAN125136	-3.5043	-3.3517	-3.4124	5.6107e-02	8.7004e-01
91	PAN130136	-3.6467	-3.4178	-3.5128	6.3318e-02	8.7004e-01
92	PAN120048	-7.5119	-7.1304	-7.3110	7.8940e-02	8.7019e-01
93	PAN130048	-6.9954	-6.6140	-6.8631	8.0585e-02	8.7017e-01
94	PAN120224	-6.5596	-6.1782	-6.3728	6.9753e-02	8.7015e-01
95	PAN130224	-6.9705	-6.5127	-6.7836	7.7962e-02	8.7017e-01
96	PAN120312	-6.3058	-6.0006	-6.1298	8.5589e-02	8.7013e-01
97	PAN130312	-7.0805	-6.6227	-6.8812	1.0071e-01	8.7017e-01
98	PAB000136	59.9989	60.2736	60.1297	7.1773e-02	5.9916e-01
99	PAB100136	62.0572	62.2403	62.1300	4.2737e-02	6.0044e-01
100	PAB125136	62.6646	62.8019	62.7384	3.9441e-02	6.0083e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.6389	60.4934	60.0500	1.6089e-01	7.6488e-01
102	PRV000001	18.8791	19.1233	18.9838	4.9835e-02	7.5150e-01
103	PSR000001	62.7469	62.8690	62.7519	2.4404e-02	7.6623e-01
104	PFM000001	9.4052	9.9546	9.6145	1.2111e-01	5.0058e-01
105	PAN000136	-80.7154	-73.3912	-76.3433	1.5069e+00	4.9237e+00
106	PFM000002	9.6229	9.8914	9.7201	7.3858e-02	2.0147e-01
107	EMPTY	-0.0049	0.0049	-0.0039	2.4373e-03	0.0000e+00
108	EMPTY	-6.2939	-3.4570	-4.4251	6.4143e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0018	2.5787e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0008	1.8234e-03	0.0000e+00
112	VPW000001	101.9381	102.9147	102.3406	2.4056e-01	1.0164e+00
113	VPW000002	118.7876	119.3735	119.1742	1.5691e-01	1.0805e+00
114	VPW000003	146.9126	147.8891	147.1597	2.0241e-01	1.1982e+00
115	VPW000004	104.5786	105.3598	104.9852	2.1777e-01	1.0261e+00
116	VPW000005	139.0925	139.8738	139.5351	2.1386e-01	1.1649e+00
117	VPW000006	145.6956	146.2816	146.0066	1.8665e-01	1.1931e+00
118	IPW000001	554.9911	562.8005	558.7762	1.9689e+00	9.2248e+00
119	IPW000002	1292.1157	1301.8721	1296.6952	2.5363e+00	1.3059e+01
120	IPW000003	1319.1748	1326.9747	1323.4330	2.0557e+00	1.3226e+01
121	IPW000004	381.5636	384.9816	383.4569	8.6680e-01	3.6300e+00
122	IPW000005	254.2939	255.7586	255.1110	4.6089e-01	2.8393e+00
123	IPW000006	266.7049	268.6580	267.8310	5.0038e-01	2.9115e+00
124	EMPTY	-0.0342	-0.0146	-0.0233	4.2597e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0159	2.3953e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0205	2.9867e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0174	3.1518e-03	0.0000e+00
128	IHT000001	131.0772	133.2257	132.2132	5.7315e-01	4.3079e+00
129	IHT000002	130.4500	132.7937	131.5781	5.0314e-01	4.3060e+00
130	IHT000003	129.1504	131.4941	130.3063	5.1650e-01	4.3021e+00
131	IHT000004	131.6895	133.6426	132.6581	5.2734e-01	4.3093e+00
132	IHT000005	130.0368	132.1852	130.9017	5.4519e-01	4.3039e+00
133	IHT000006	125.5822	127.9259	126.6105	5.2857e-01	4.2910e+00
134	IHT000007	131.9787	134.1271	132.8635	4.9652e-01	4.3099e+00
135	IHT000008	130.6490	132.7975	131.5976	4.9153e-01	4.3060e+00
136	IHT000009	130.2922	132.2454	131.2209	4.9238e-01	4.3049e+00
137	IHT000010	130.5138	132.6623	131.4186	4.8287e-01	4.3055e+00
138	IHT000011	131.6106	133.5637	132.4555	4.3925e-01	4.3086e+00
139	IHT000012	130.6077	132.5609	131.5803	4.6917e-01	4.3060e+00
140	IHT000013	92.0072	93.7650	92.7845	4.4124e-01	4.2037e+00
141	IHT000014	127.4715	129.2293	128.3484	4.2776e-01	4.2962e+00
142	IHT000015	94.5388	96.4919	95.3878	4.3225e-01	4.2095e+00
143	IHT000016	89.1940	90.9518	89.9273	4.0172e-01	4.1975e+00
144	IHT000017	104.6612	107.5909	105.9327	7.7320e-01	4.2346e+00
145	IHT000018	107.0087	109.1572	107.9335	4.6626e-01	4.2397e+00
146	IHT000019	107.2303	109.7694	108.3863	5.5934e-01	4.2408e+00
147	IHT000020	105.9721	107.9252	106.8809	5.0201e-01	4.2370e+00
148	IHT000021	-2.9860	-0.2517	-1.7105	5.9549e-01	4.1000e+00
149	IHT000022	92.6270	95.1660	93.8228	5.5620e-01	4.2060e+00
150	IHT000023	105.1570	107.1101	106.2213	4.4585e-01	4.2354e+00
151	IHT000024	70.4965	72.6450	71.4054	4.4494e-01	4.1617e+00
152	IHT000025	102.4677	104.4208	103.3566	4.4406e-01	4.2283e+00
153	IHT000026	104.8903	107.2341	105.9227	4.4929e-01	4.2346e+00
154	IHT000027	90.2532	92.2063	91.1221	4.1252e-01	4.2000e+00
155	IHT000028	90.7940	93.1378	92.1413	5.3525e-01	4.2023e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4162	107.9552	106.9667	5.0808e-01	4.2372e+00
157	IHT000030	107.9214	110.6558	109.5158	5.3836e-01	4.2437e+00
158	IHT000031	105.8068	108.5412	107.4889	5.2863e-01	4.2386e+00
159	IHT000032	106.8472	109.5816	108.3778	5.4423e-01	4.2408e+00
160	IHT000033	106.8284	109.5628	108.3232	5.4599e-01	4.2407e+00
161	IHT000034	94.1293	96.0825	94.8827	4.7508e-01	4.2084e+00
162	IHT000035	123.9633	125.5258	124.8283	4.1623e-01	4.2858e+00
163	IHT000036	92.8110	94.5688	93.5086	4.4752e-01	4.2053e+00

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Velocity 1 = 0.038900 (ft/sec)

Velocity 2 = 0.031700 (ft/sec)

Pressure Drop = 0.038200 (psi)

Tsat in = 0.201202 (deg F) Tsat out = 0.205200 (deg F)

Phi inner = 0.608803 (kBtu/hr-ft2) Phi outer = 0.332298 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0440	0.0591
1	TRF000002	0.0097	0.0130
2	TFM000001	0.7814	0.8987
3	TIN000001	0.8545	0.9833
4	TRV000001	1.0090	1.1578
5	TSR000001	4.6124	3.6179
6	EMPTY	0.1073	0.2788
7	TAO050136	5.4150	3.3564
8	TAO070136	0.1737	0.1069
9	TAO080136	1.5018	0.9138
10	TAO090136	11.0001	5.6447
11	TAO100136	0.4825	0.2781
12	TAO105136	0.0797	0.0455
13	EMPTY	0.0000	0.0000
14	TAO115136	0.6619	0.3559
15	EMPTY	0.2480	0.6648
16	TAO125136	0.6183	0.3245
17	EMPTY	0.0623	0.1377
18	EMPTY	0.0206	0.0496
19	TAO130048	0.4448	0.2527
20	TAO120224	0.7481	0.4117
21	EMPTY	0.0477	0.1217
22	TAO120312	0.0361	0.0196
23	TAO130312	0.0952	0.0536
24	EMPTY	0.0095	0.0241
25	TRT070000	1.3362	0.8070
26	TRT100000	0.4555	0.2526
27	TRT120000	0.6470	0.3530
28	TRT125000	0.5556	0.3005
29	EMPTY	0.0215	0.0538
30	EMPTY	0.0011	0.0028
31	TAF050136	1.0305	0.9161
32	TAF070136	0.7833	0.6504
33	TAF080136	1.0037	0.8092
34	TAF090136	1.1390	0.8908
35	TAF100136	1.0289	0.7695
36	TAF105136	0.9908	0.7213
37	TAF110136	0.9720	0.6885
38	TAF115136	0.8392	0.5820
39	TAF120136	0.9915	0.6739
40	TAF125136	0.7536	0.5041
41	TAF130136	0.7025	0.4630
42	TAF120048	0.5254	0.3582
43	TAF130048	0.5812	0.3877
44	TAF120224	0.8757	0.5981
45	TAF130224	0.8439	0.5591

#	Name	Abs Diff	%Diff
46	EMPTY	0.0916	0.2418
47	EMPTY	0.0732	0.1863
48	TAI130048	0.1954	0.1049
49	TAI130136	0.3293	0.1762
50	TAI130224	0.4491	0.2401
51	TAI130312	0.0199	0.0108
52	TRR130000	1.2691	1.1803
53	TSI000001	0.7470	1.7756
54	TSI000002	0.1812	0.2040
55	TSO000001	0.6855	1.6752
56	TSO000002	0.6833	1.3597
57	TAF020136	0.9170	0.9411
58	EMPTY	0.1631	0.3791
59	TAF130312	0.0600	0.0393
60	EMPTY	0.0008	0.0390
61	EMPTY	0.0009	0.0438
62	EMPTY	0.0002	0.0097
63	EMPTY	0.0005	0.0242
64	EMPTY	0.0015	0.1471
65	EMPTY	0.0001	0.0097
66	EMPTY	0.0013	0.1240
67	EMPTY	0.0013	0.1225
68	EMPTY	0.0018	0.1679
69	EMPTY	0.0020	0.1839
70	EMPTY	0.0002	0.0182
71	EMPTY	0.0003	0.0268
72	EMPTY	0.0014	0.1239
73	EMPTY	0.0018	0.1572
74	EMPTY	0.0001	0.0086
75	EMPTY	0.0004	0.0341
76	EMPTY	0.0001	0.0085
77	EMPTY	0.0003	0.0251
78	EMPTY	0.0005	0.0411
79	EMPTY	0.0010	0.0807
80	PAN020136	0.0831	0.8593
81	PAN050136	0.1382	0.7417
82	PAN070136	0.2364	2.0965
83	PAN080136	0.0689	1.1023
84	PAN090136	0.0769	1.1800
85	PAN100136	0.0602	0.9844
86	PAN105136	0.0427	1.9753
87	PAN110136	0.0296	1.0803
88	PAN115136	0.0087	0.2903
89	PAN120136	0.0240	0.6866
90	PAN125136	0.0012	0.0352
91	PAN130136	0.0156	0.4461
92	PAN120048	0.0738	1.0197
93	PAN130048	0.0416	0.6098
94	PAN120224	0.0344	0.5427
95	PAN130224	0.0268	0.3966
96	PAN120312	0.0422	0.6932
97	PAN130312	0.0403	0.5891
98	PAB000136	0.1820	0.3036
99	PAB100136	0.1818	0.2935
100	PAB125136	0.1910	0.3054

#	Name	Abs Diff	%Diff
101	PIN0000001	0.3183	0.5329
102	PRV0000001	0.2371	1.2335
103	PSR0000001	0.2272	0.3634
104	PFM0000001	0.0947	0.9754
105	PAN000136	1.0570	1.4040
106	PFM0000002	0.0773	0.7890
107	EMPTY	0.0033	549.9999
108	EMPTY	0.2561	6.1430
109	EMPTY	0.0018	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0008	100.0000
112	VPW0000001	0.0862	0.0843
113	VPW0000002	0.2071	0.1735
114	VPW0000003	0.2177	0.1477
115	VPW0000004	0.1442	0.1372
116	VPW0000005	0.0849	0.0608
117	VPW0000006	0.0094	0.0064
118	IPW0000001	6.0547	1.0719
119	IPW0000002	16.2090	1.2658
120	IPW0000003	10.3031	0.7846
121	IPW0000004	1.3099	0.3404
122	IPW0000005	0.4753	0.1867
123	IPW0000006	1.3116	0.4921
124	EMPTY	0.0014	5.6680
125	EMPTY	0.0002	1.2422
126	EMPTY	0.0011	5.0926
127	EMPTY	0.0002	1.1364
128	IHT0000001	0.0359	0.0271
129	IHT0000002	0.1063	0.0807
130	IHT0000003	0.1175	0.0901
131	IHT0000004	0.1329	0.1001
132	IHT0000005	0.0218	0.0166
133	IHT0000006	0.0732	0.0578
134	IHT0000007	0.0253	0.0190
135	IHT0000008	0.0318	0.0242
136	IHT0000009	0.0908	0.0692
137	IHT0000010	0.0874	0.0665
138	IHT0000011	0.0222	0.0168
139	IHT0000012	0.0194	0.0148
140	IHT0000013	0.1642	0.1767
141	IHT0000014	0.0958	0.0746
142	IHT0000015	0.1861	0.1947
143	IHT0000016	0.1123	0.1250
144	IHT0000017	0.7286	0.6926
145	IHT0000018	0.1435	0.1331
146	IHT0000019	0.1208	0.1116
147	IHT0000020	0.0728	0.0682
148	IHT0000021	0.0568	3.2139
149	IHT0000022	0.2466	0.2635
150	IHT0000023	0.0369	0.0347
151	IHT0000024	0.0651	0.0913
152	IHT0000025	0.1545	0.1497
153	IHT0000026	0.1300	0.1229
154	IHT0000027	0.3260	0.3591
155	IHT0000028	0.2536	0.2760

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0740	0.0692
157	IHT000030	0.1100	0.1005
158	IHT000031	0.0493	0.0459
159	IHT000032	0.0072	0.0066
160	IHT000033	0.0182	0.0168
161	IHT000034	0.1685	0.1773
162	IHT000035	0.1312	0.1050
163	IHT000036	0.1657	0.1769

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Velocity 1 = 6.9196 (ft/sec) (+/- 4.8637 %)
Velocity 2 = 6.9611 (ft/sec) (+/- 3.6765 %)
Pressure drop = -3.3361 (psi)
Tsats in = 292.7632 (deg F) Tsats out = 296.1882 (deg F)
Phi inner = 99.6132 (kBtu/hr-ft2) (+/- 1.5725 %)
Phi outer = 100.9938 (kBtu/hr-ft2) (+/- 1.5491 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4408	75.0786	74.6874	1.6277e-01	1.9000e+00
1	TRF000002	74.8725	75.2955	75.0164	1.0845e-01	1.9000e+00
2	TFM000001	86.4687	87.3071	86.9339	1.9543e-01	1.9002e+00
3	TIN000001	86.5339	87.2694	86.8615	1.6798e-01	1.9002e+00
4	TRV000001	87.2011	88.0382	87.6195	1.9831e-01	1.9002e+00
5	TSR000001	144.7789	147.1761	145.8624	6.8770e-01	1.9039e+00
6	EMPTY	37.9974	38.9168	38.4526	2.2504e-01	1.9010e+00
7	TAO050136	161.8159	162.6060	162.1319	1.5202e-01	1.9057e+00
8	TAO070136	170.3473	171.1384	170.7510	1.7613e-01	1.9068e+00
9	TAO080136	170.4043	171.0921	170.7341	1.6086e-01	1.9068e+00
10	TAO090136	176.5529	177.4339	176.9992	1.9095e-01	1.9077e+00
11	TAO100136	183.8401	184.6204	184.1600	1.4747e-01	1.9088e+00
12	TAO105136	186.6316	187.7998	187.3016	2.9073e-01	1.9092e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	196.4460	197.4159	197.0125	2.0307e-01	1.9108e+00
15	EMPTY	31.5371	41.8984	37.4317	2.9467e+00	1.9009e+00
16	TAO125136	202.1498	202.7273	202.3694	1.4407e-01	1.9118e+00
17	EMPTY	44.8706	45.7833	45.2403	2.0035e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5594	1.3284e-01	1.9012e+00
19	TAO130048	187.2363	187.7222	187.5582	1.1514e-01	1.9093e+00
20	TAO120224	192.8934	193.5716	193.1919	1.5521e-01	1.9102e+00
21	EMPTY	38.9168	39.6057	39.1648	1.5965e-01	1.9010e+00
22	TAO120312	196.5617	197.4330	197.0148	2.0832e-01	1.9108e+00
23	TAO130312	189.0888	189.6712	189.4150	1.3829e-01	1.9096e+00
24	EMPTY	38.9168	39.8352	39.3669	1.9659e-01	1.9010e+00
25	TRT070000	174.7545	175.4461	175.0751	1.6980e-01	1.9074e+00
26	TRT100000	190.6839	191.4598	191.0719	2.0167e-01	1.9098e+00
27	TRT120000	194.3840	195.4487	194.8566	2.0291e-01	1.9105e+00
28	TRT125000	196.4751	197.1496	196.7838	1.7717e-01	1.9108e+00
29	EMPTY	39.8352	40.0646	39.9362	1.1506e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6332	2.0022e-01	1.9011e+00
31	TAF050136	114.9190	116.0448	115.5332	2.4357e-01	1.9014e+00
32	TAF070136	124.1455	125.4626	124.8584	3.1990e-01	1.9020e+00
33	TAF080136	128.3941	129.5050	128.8714	2.4308e-01	1.9023e+00
34	TAF090136	132.6649	133.7778	133.2555	2.6908e-01	1.9027e+00
35	TAF100136	139.4047	140.3125	139.9373	2.0379e-01	1.9033e+00
36	TAF105136	143.6887	144.7857	144.2543	2.5572e-01	1.9037e+00
37	TAF110136	148.0318	148.5314	148.2957	1.3477e-01	1.9041e+00
38	TAF115136	151.4278	152.3249	151.8063	2.0237e-01	1.9045e+00
39	TAF120136	154.8223	155.4182	155.1401	1.4456e-01	1.9049e+00
40	TAF125136	157.5822	158.4725	158.0642	2.2984e-01	1.9052e+00
41	TAF130136	160.3328	161.0256	160.7047	1.8067e-01	1.9055e+00
42	TAF120048	154.7209	155.8233	155.2987	2.9018e-01	1.9049e+00
43	TAF130048	158.5581	159.3520	158.9549	1.9237e-01	1.9053e+00
44	TAF120224	153.9766	154.8713	154.4932	1.8954e-01	1.9048e+00
45	TAF130224	159.1278	160.4233	159.7616	2.7066e-01	1.9054e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9836	2.3874e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3990	1.2490e-01	1.9010e+00
48	TAI130048	198.2872	198.9633	198.5964	1.4991e-01	1.9111e+00
49	TAI130136	198.7094	199.2876	199.0486	1.3801e-01	1.9112e+00
50	TAI130224	198.6796	199.2603	198.9392	1.7532e-01	1.9112e+00
51	TAI130312	197.1786	197.6628	197.3956	1.2754e-01	1.9109e+00
52	TRR130000	108.0695	110.1244	109.2491	4.4433e-01	1.9010e+00
53	TSI000001	41.5045	42.2667	41.9484	1.9878e-01	1.9005e+00
54	TSI000002	79.5015	81.0792	80.3426	3.6332e-01	1.9001e+00
55	TSO000001	40.2898	41.0555	40.6441	1.8573e-01	1.9006e+00
56	TSO000002	50.2916	51.1572	50.7852	1.9808e-01	1.9002e+00
57	TAF020136	98.2564	99.5119	98.8301	2.9135e-01	1.9006e+00
58	EMPTY	42.5851	43.7285	43.2439	2.6395e-01	1.9013e+00
59	TAF130312	162.2849	163.3723	162.8582	2.4051e-01	1.9058e+00
60	EMPTY	2.2852	2.2949	2.2900	2.6100e-03	0.0000e+00
61	EMPTY	2.2852	2.2949	2.2906	2.1249e-03	0.0000e+00
62	EMPTY	2.2900	2.2949	2.2931	2.3941e-03	0.0000e+00
63	EMPTY	2.2949	2.3047	2.2993	1.7784e-03	0.0000e+00
64	EMPTY	1.1230	1.1279	1.1232	9.6655e-04	0.0000e+00
65	EMPTY	1.1377	1.1426	1.1382	1.4797e-03	0.0000e+00
66	EMPTY	1.1475	1.1523	1.1522	6.9053e-04	0.0000e+00
67	EMPTY	1.1621	1.1670	1.1649	2.4344e-03	0.0000e+00
68	EMPTY	1.1719	1.1768	1.1736	2.3675e-03	0.0000e+00
69	EMPTY	1.1865	1.1914	1.1867	9.6655e-04	0.0000e+00
70	EMPTY	1.1963	1.2012	1.2010	9.6655e-04	0.0000e+00
71	EMPTY	1.2158	1.2207	1.2199	1.8082e-03	0.0000e+00
72	EMPTY	1.2256	1.2305	1.2301	1.3381e-03	0.0000e+00
73	EMPTY	1.2402	1.2451	1.2449	9.6655e-04	0.0000e+00
74	EMPTY	1.2549	1.2598	1.2550	6.9053e-04	0.0000e+00
75	EMPTY	1.2646	1.2695	1.2668	2.4484e-03	0.0000e+00
76	EMPTY	1.2744	1.2793	1.2791	9.6655e-04	0.0000e+00
77	EMPTY	1.2891	1.2939	1.2938	6.9053e-04	0.0000e+00
78	EMPTY	1.3086	1.3135	1.3131	1.3381e-03	0.0000e+00
79	EMPTY	1.3281	1.3330	1.3329	6.9053e-04	0.0000e+00
80	PAN020136	-12.0836	-11.3207	-11.7098	1.7524e-01	8.7049e-01
81	PAN050136	-22.8451	-22.2347	-22.5185	1.6021e-01	1.6809e+00
82	PAN070136	-14.3414	-14.0363	-14.2346	8.7193e-02	8.7073e-01
83	PAN080136	-7.6821	-7.3769	-7.5158	7.6589e-02	8.7020e-01
84	PAN090136	-7.8610	-7.6321	-7.7115	6.5322e-02	8.7021e-01
85	PAN100136	-7.5118	-7.2067	-7.3470	7.2886e-02	8.7019e-01
86	PAN105136	-3.1184	-2.8895	-2.9902	6.9686e-02	8.7003e-01
87	PAN110136	-3.6539	-3.3487	-3.4586	6.7469e-02	8.7004e-01
88	PAN115136	-3.7918	-3.4866	-3.6636	6.6189e-02	8.7005e-01
89	PAN120136	-4.1499	-3.8447	-4.0080	7.3938e-02	8.7006e-01
90	PAN125136	-4.0384	-3.8095	-3.8995	6.4829e-02	8.7005e-01
91	PAN130136	-4.1807	-3.8756	-3.9931	6.2058e-02	8.7006e-01
92	PAN120048	-8.5800	-8.2748	-8.4229	8.0698e-02	8.7025e-01
93	PAN130048	-7.9372	-7.7584	-7.8896	6.5467e-02	8.7022e-01
94	PAN120224	-7.6277	-7.3226	-7.5026	6.8517e-02	8.7020e-01
95	PAN130224	-7.9623	-7.6571	-7.8189	6.4738e-02	8.7022e-01
96	PAN120312	-7.4002	-7.1450	-7.2900	7.2706e-02	8.7019e-01
97	PAN130312	-7.9960	-7.7672	-7.8526	7.0026e-02	8.7022e-01
98	PAB000136	59.9532	60.3194	60.1399	6.7860e-02	5.9917e-01
99	PAB100136	62.4692	62.6523	62.5598	4.7599e-02	6.0072e-01
100	PAB125136	63.2139	63.3970	63.2954	4.4632e-02	6.0120e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.5168	60.2493	59.9490	1.5443e-01	7.6483e-01
102	PRV000001	19.6116	19.8557	19.7336	2.4662e-02	7.5162e-01
103	PSR000001	63.2352	63.3573	63.3304	5.1081e-02	7.6653e-01
104	PFM000001	7.1164	7.5742	7.3380	1.0640e-01	5.0034e-01
105	PAN000136	-94.9061	-89.4129	-92.3609	1.1957e+00	4.9254e+00
106	PFM000002	7.3240	7.5590	7.4274	4.7745e-02	2.0086e-01
107	EMPTY	-0.0049	0.0049	-0.0008	4.4512e-03	0.0000e+00
108	EMPTY	-10.0000	-3.5352	-7.8968	2.5538e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0003	2.6853e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0007	1.7115e-03	0.0000e+00
112	VPW000001	101.9381	102.5240	102.2505	1.3087e-01	1.0161e+00
113	VPW000002	119.1782	119.5688	119.3813	1.1133e-01	1.0813e+00
114	VPW000003	147.1079	147.4985	147.3774	1.3606e-01	1.1992e+00
115	VPW000004	104.9692	105.3598	105.1958	1.2701e-01	1.0269e+00
116	VPW000005	139.4832	140.0691	139.7567	1.7647e-01	1.1659e+00
117	VPW000006	145.8909	146.2816	146.0668	1.1334e-01	1.1934e+00
118	IPW000001	560.8481	574.5145	567.3298	3.1168e+00	9.2573e+00
119	IPW000002	1284.3107	1294.0670	1287.9011	2.4095e+00	1.3005e+01
120	IPW000003	1307.4747	1315.2748	1311.5699	1.8583e+00	1.3152e+01
121	IPW000004	382.5402	385.9581	384.6593	8.2893e-01	3.6379e+00
122	IPW000005	254.2939	255.2704	254.7822	3.2714e-01	2.8375e+00
123	IPW000006	265.7283	267.1932	266.5292	3.3829e-01	2.9040e+00
124	EMPTY	-0.0293	-0.0098	-0.0209	4.1899e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0144	3.3322e-03	0.0000e+00
126	EMPTY	-0.0293	-0.0098	-0.0171	4.2142e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0173	3.4470e-03	0.0000e+00
128	IHT000001	131.4678	133.4210	132.2491	4.9756e-01	4.3080e+00
129	IHT000002	130.6453	132.9890	131.6610	5.0992e-01	4.3062e+00
130	IHT000003	129.3457	131.4941	130.4238	5.1636e-01	4.3024e+00
131	IHT000004	131.4941	133.8379	132.7051	5.3815e-01	4.3094e+00
132	IHT000005	129.8415	131.7946	130.9313	5.1462e-01	4.3040e+00
133	IHT000006	125.3869	127.5353	126.6251	4.9538e-01	4.2911e+00
134	IHT000007	131.7833	134.1271	132.8927	4.8559e-01	4.3100e+00
135	IHT000008	130.6490	132.7975	131.7193	4.7061e-01	4.3064e+00
136	IHT000009	130.2922	132.6360	131.3546	4.5704e-01	4.3053e+00
137	IHT000010	130.5138	132.4669	131.5333	4.9172e-01	4.3058e+00
138	IHT000011	131.4153	133.5637	132.4699	5.3959e-01	4.3087e+00
139	IHT000012	130.4124	132.7562	131.6078	5.2592e-01	4.3060e+00
140	IHT000013	91.8119	94.1556	93.0073	5.0012e-01	4.2042e+00
141	IHT000014	127.4715	129.8152	128.6122	5.6684e-01	4.2970e+00
142	IHT000015	94.5388	96.8825	95.6638	5.1382e-01	4.2101e+00
143	IHT000016	88.8033	90.9518	89.9322	4.9645e-01	4.1975e+00
144	IHT000017	104.2706	108.5675	106.2823	9.9844e-01	4.2355e+00
145	IHT000018	107.0087	109.5478	108.0713	4.7541e-01	4.2400e+00
146	IHT000019	107.6209	109.7694	108.5311	5.2439e-01	4.2412e+00
147	IHT000020	105.7767	108.3158	106.9917	5.3712e-01	4.2373e+00
148	IHT000021	-2.9860	-0.0564	-1.5524	6.5031e-01	4.1000e+00
149	IHT000022	92.4316	94.9707	93.7246	5.2924e-01	4.2058e+00
150	IHT000023	105.1570	107.5008	106.3211	5.1593e-01	4.2356e+00
151	IHT000024	70.4965	72.8403	71.4927	4.6396e-01	4.1619e+00
152	IHT000025	102.4677	104.8114	103.5459	5.0260e-01	4.2287e+00
153	IHT000026	105.2810	107.2341	106.0661	4.7759e-01	4.2350e+00
154	IHT000027	90.2532	92.0110	90.9953	4.6689e-01	4.1998e+00
155	IHT000028	90.9893	93.9190	92.1182	6.0784e-01	4.2022e+00

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0021	108.9318	107.1076	6.4309e-01	4.2376e+00
157	IHT000030	108.7027	111.0464	109.6948	6.5416e-01	4.2442e+00
158	IHT000031	106.5881	109.1271	107.6623	6.5465e-01	4.2390e+00
159	IHT000032	107.4332	110.1675	108.5542	7.0455e-01	4.2413e+00
160	IHT000033	107.4144	110.1487	108.4769	7.0494e-01	4.2411e+00
161	IHT000034	94.1293	96.6684	95.1137	5.3664e-01	4.2089e+00
162	IHT000035	123.7680	126.5024	125.0142	5.2481e-01	4.2864e+00
163	IHT000036	92.6157	94.5688	93.7446	4.6403e-01	4.2058e+00

Velocity 1 = 6.9083 (ft/sec) (+/- 4.8713 %)
Velocity 2 = 6.9476 (ft/sec) (+/- 3.6780 %)
Pressure drop = -3.3551 (psi)
Tsats in = 292.6406 (deg F) Tsats out = 296.0713 (deg F)
Phi inner = 100.1744 (kBtu/hr-ft²) (+/- 1.5710 %)
Phi outer = 101.0550 (kBtu/hr-ft²) (+/- 1.5494 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft²)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4408	75.0786	74.7922	1.8181e-01	1.9000e+00
1	TRF000002	74.8725	75.2955	75.0883	1.3983e-01	1.9000e+00
2	TFM000001	85.7345	86.7835	86.3792	2.1292e-01	1.9002e+00
3	TIN000001	85.9028	86.7439	86.3064	1.8746e-01	1.9002e+00
4	TRV000001	86.5735	87.5157	87.1291	1.9257e-01	1.9002e+00
5	TSR000001	144.5795	147.0771	146.2272	6.7998e-01	1.9039e+00
6	EMPTY	37.9974	38.9168	38.4665	2.1984e-01	1.9010e+00
7	TAO050136	161.5192	162.2124	161.8528	1.5856e-01	1.9057e+00
8	TAO070136	169.7534	170.7418	170.2945	2.2656e-01	1.9068e+00
9	TAO080136	170.0131	170.7006	170.3857	1.7484e-01	1.9068e+00
10	TAO090136	175.9651	176.6516	176.3274	1.8244e-01	1.9076e+00
11	TAO100136	183.3527	184.3281	183.8386	1.7526e-01	1.9087e+00
12	TAO105136	186.5345	187.6053	187.0770	2.7885e-01	1.9092e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	196.0570	197.1242	196.5760	2.1737e-01	1.9108e+00
15	EMPTY	31.5371	42.1273	38.4061	2.8343e+00	1.9010e+00
16	TAO125136	201.5745	202.2483	201.9771	1.4256e-01	1.9117e+00
17	EMPTY	44.8706	45.5552	45.2386	1.8524e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5525	1.2479e-01	1.9012e+00
19	TAO130048	186.7511	187.6256	187.1935	1.7301e-01	1.9092e+00
20	TAO120224	192.4084	193.3784	192.9646	2.2716e-01	1.9102e+00
21	EMPTY	38.9168	39.6057	39.1886	1.4579e-01	1.9010e+00
22	TAO120312	196.1745	197.2391	196.7176	2.4027e-01	1.9108e+00
23	TAO130312	188.7010	189.4780	189.0540	1.5826e-01	1.9095e+00
24	EMPTY	39.1464	39.8352	39.3854	1.8723e-01	1.9010e+00
25	TRT070000	174.3603	175.3463	174.8006	2.1321e-01	1.9074e+00
26	TRT100000	190.3932	191.0723	190.7005	1.9429e-01	1.9098e+00
27	TRT120000	194.0935	194.8685	194.4733	1.9046e-01	1.9104e+00
28	TRT125000	196.0920	196.9589	196.4554	1.7824e-01	1.9107e+00
29	EMPTY	39.8352	40.0646	39.9101	1.0872e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6806	2.1668e-01	1.9011e+00
31	TAF050136	114.5109	115.6361	115.0476	2.4148e-01	1.9014e+00
32	TAF070136	123.7389	124.9575	124.3755	2.9415e-01	1.9020e+00
33	TAF080136	127.7910	128.9007	128.3986	2.4874e-01	1.9023e+00
34	TAF090136	132.1593	133.3730	132.7599	2.6557e-01	1.9027e+00
35	TAF100136	139.0007	139.9091	139.5054	2.3932e-01	1.9033e+00
36	TAF105136	143.1920	144.2894	143.6943	2.6930e-01	1.9037e+00
37	TAF110136	147.3351	148.2332	147.8607	2.0146e-01	1.9041e+00
38	TAF115136	150.9292	151.6281	151.3468	1.8059e-01	1.9045e+00
39	TAF120136	154.2279	155.0232	154.6700	1.6977e-01	1.9048e+00
40	TAF125136	157.1870	158.0775	157.6034	2.0180e-01	1.9052e+00
41	TAF130136	159.9364	160.8285	160.3190	1.7975e-01	1.9055e+00
42	TAF120048	154.1196	155.3226	154.8087	2.9826e-01	1.9048e+00
43	TAF130048	158.1606	158.9555	158.4974	2.0250e-01	1.9053e+00
44	TAF120224	153.4784	154.5732	153.9825	2.8966e-01	1.9047e+00
45	TAF130224	158.8279	159.7253	159.2573	2.2947e-01	1.9054e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9693	1.9711e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3714	1.5180e-01	1.9010e+00
48	TAI130048	197.8040	198.4809	198.1750	1.7680e-01	1.9110e+00
49	TAI130136	198.3246	198.9993	198.6280	1.4594e-01	1.9111e+00
50	TAI130224	198.1957	198.8733	198.5257	1.3524e-01	1.9111e+00
51	TAI130312	196.5981	197.2759	196.9064	1.5128e-01	1.9108e+00
52	TRR130000	109.9191	112.2789	111.0978	5.3931e-01	1.9011e+00
53	TSI000001	41.9396	42.9175	42.4498	1.9497e-01	1.9005e+00
54	TSI000002	80.5524	82.3401	81.3086	4.3499e-01	1.9001e+00
55	TSO000001	40.6178	41.6022	41.2030	2.2165e-01	1.9006e+00
56	TSO000002	50.7247	51.5896	51.1792	1.8724e-01	1.9002e+00
57	TAF020136	97.7325	98.8830	98.2339	2.6808e-01	1.9005e+00
58	EMPTY	42.5851	43.7285	43.1546	2.7665e-01	1.9013e+00
59	TAF130312	161.6912	162.8788	162.2650	2.4721e-01	1.9057e+00
60	EMPTY	2.2656	2.2803	2.2726	3.3057e-03	0.0000e+00
61	EMPTY	2.2705	2.2754	2.2740	2.2287e-03	0.0000e+00
62	EMPTY	2.2705	2.2803	2.2764	2.2241e-03	0.0000e+00
63	EMPTY	2.2803	2.2852	2.2827	2.4662e-03	0.0000e+00
64	EMPTY	1.1133	1.1182	1.1170	2.1215e-03	0.0000e+00
65	EMPTY	1.1328	1.1377	1.1330	9.7615e-04	0.0000e+00
66	EMPTY	1.1426	1.1475	1.1453	2.4538e-03	0.0000e+00
67	EMPTY	1.1572	1.1621	1.1577	1.4934e-03	0.0000e+00
68	EMPTY	1.1670	1.1719	1.1677	1.7263e-03	0.0000e+00
69	EMPTY	1.1816	1.1914	1.1819	1.5467e-03	0.0000e+00
70	EMPTY	1.1914	1.1963	1.1942	2.4414e-03	0.0000e+00
71	EMPTY	1.2109	1.2158	1.2138	2.4247e-03	0.0000e+00
72	EMPTY	1.2207	1.2256	1.2238	2.3783e-03	0.0000e+00
73	EMPTY	1.2354	1.2402	1.2390	2.1215e-03	0.0000e+00
74	EMPTY	1.2500	1.2549	1.2501	6.9754e-04	0.0000e+00
75	EMPTY	1.2598	1.2646	1.2624	2.4621e-03	0.0000e+00
76	EMPTY	1.2695	1.2744	1.2738	1.6172e-03	0.0000e+00
77	EMPTY	1.2891	1.2939	1.2892	6.9754e-04	0.0000e+00
78	EMPTY	1.3037	1.3086	1.3082	1.3508e-03	0.0000e+00
79	EMPTY	1.3281	1.3330	1.3283	9.7615e-04	0.0000e+00
80	PAN020136	-12.0836	-11.4733	-11.7893	1.3666e-01	8.7050e-01
81	PAN050136	-22.8451	-22.2347	-22.5337	1.4596e-01	1.6809e+00
82	PAN070136	-14.5703	-14.2651	-14.3508	6.5395e-02	8.7074e-01
83	PAN080136	-7.7584	-7.4532	-7.5482	7.5544e-02	8.7020e-01
84	PAN090136	-7.9373	-7.6321	-7.7349	6.8860e-02	8.7021e-01
85	PAN100136	-7.5881	-7.2067	-7.3779	8.3184e-02	8.7020e-01
86	PAN105136	-3.1947	-2.8895	-3.0001	6.4326e-02	8.7003e-01
87	PAN110136	-3.5776	-3.3487	-3.4671	7.4787e-02	8.7004e-01
88	PAN115136	-3.7918	-3.4866	-3.6781	7.1574e-02	8.7005e-01
89	PAN120136	-4.1499	-3.9210	-4.0176	7.7517e-02	8.7006e-01
90	PAN125136	-4.0384	-3.8095	-3.9403	5.8270e-02	8.7006e-01
91	PAN130136	-4.1807	-3.8756	-4.0095	6.3318e-02	8.7006e-01
92	PAN120048	-8.5800	-8.2748	-8.4430	8.3836e-02	8.7026e-01
93	PAN130048	-7.9872	-7.6821	-7.8938	7.8279e-02	8.7022e-01
94	PAN120224	-7.6277	-7.3226	-7.5032	7.2536e-02	8.7020e-01
95	PAN130224	-8.0386	-7.7334	-7.8362	6.8860e-02	8.7022e-01
96	PAN120312	-7.5265	-7.1450	-7.3287	8.2287e-02	8.7019e-01
97	PAN130312	-8.0723	-7.6909	-7.9042	8.2377e-02	8.7022e-01
98	PAB000136	59.9074	60.1820	60.0288	6.0232e-02	5.9910e-01
99	PAB100136	62.3776	62.5149	62.4551	4.3027e-02	6.0065e-01
100	PAB125136	63.1224	63.2597	63.1859	4.3644e-02	6.0113e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.5168	60.2493	59.8582	1.4091e-01	7.6478e-01
102	PRV000001	19.8557	19.9778	19.9279	6.0619e-02	7.5165e-01
103	PSR000001	63.1132	63.3573	63.2352	2.4918e-02	7.6648e-01
104	PFM000001	7.1164	7.4826	7.3145	9.0299e-02	5.0033e-01
105	PAN000136	-94.9061	-89.8707	-92.8882	1.1249e+00	4.9255e+00
106	PFM000002	7.3240	7.4918	7.3990	4.5710e-02	2.0085e-01
107	EMPTY	-0.0049	0.0049	-0.0028	3.4527e-03	0.0000e+00
108	EMPTY	-10.0000	-6.5283	-9.8399	6.8480e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0010	2.2241e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0008	1.8234e-03	0.0000e+00
112	VPW000001	101.5475	102.9147	102.2051	2.7533e-01	1.0159e+00
113	VPW000002	118.7876	119.5688	119.1583	1.9222e-01	1.0804e+00
114	VPW000003	146.9126	147.8891	147.2952	2.3233e-01	1.1988e+00
115	VPW000004	104.3833	105.7505	105.1048	2.9622e-01	1.0265e+00
116	VPW000005	138.8972	140.2644	139.5829	3.1675e-01	1.1651e+00
117	VPW000006	145.6956	146.4769	146.0185	2.2746e-01	1.1932e+00
118	IPW000001	553.0388	566.7051	560.2106	2.7722e+00	9.2302e+00
119	IPW000002	1292.1157	1309.6771	1299.1246	4.0407e+00	1.3074e+01
120	IPW000003	1313.3248	1325.0248	1320.1301	2.8737e+00	1.3205e+01
121	IPW000004	382.0519	387.4230	384.1445	1.2328e+00	3.6345e+00
122	IPW000005	253.3175	256.2469	254.8619	7.0714e-01	2.8379e+00
123	IPW000006	266.7049	269.1463	267.6815	5.3674e-01	2.9107e+00
124	EMPTY	-0.0293	-0.0146	-0.0221	3.8733e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0153	2.6370e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0199	2.7902e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	3.1518e-03	0.0000e+00
128	IHT000001	130.6866	133.2257	132.0697	5.6359e-01	4.3075e+00
129	IHT000002	130.2547	132.7937	131.4705	5.5281e-01	4.3056e+00
130	IHT000003	128.9551	131.2988	130.2545	5.1760e-01	4.3019e+00
131	IHT000004	130.9082	133.8379	132.5783	5.5966e-01	4.3090e+00
132	IHT000005	129.2556	131.9899	130.7702	4.9077e-01	4.3035e+00
133	IHT000006	124.9963	127.7306	126.4631	4.8193e-01	4.2906e+00
134	IHT000007	131.1974	133.7365	132.7400	4.5847e-01	4.3095e+00
135	IHT000008	130.0631	132.6021	131.5099	4.6990e-01	4.3058e+00
136	IHT000009	129.7063	132.0500	131.1691	4.9334e-01	4.3047e+00
137	IHT000010	130.3185	132.6623	131.4784	5.7000e-01	4.3057e+00
138	IHT000011	131.2200	133.3684	132.4157	5.1464e-01	4.3085e+00
139	IHT000012	130.6077	132.7562	131.5046	5.3920e-01	4.3057e+00
140	IHT000013	91.8119	94.1556	92.9639	5.9435e-01	4.2041e+00
141	IHT000014	127.2762	129.8152	128.5836	5.7940e-01	4.2969e+00
142	IHT000015	94.1481	96.6872	95.6509	5.7250e-01	4.2101e+00
143	IHT000016	88.6080	90.7565	89.9034	5.1628e-01	4.1974e+00
144	IHT000017	104.2706	107.7862	105.8211	9.0511e-01	4.2344e+00
145	IHT000018	106.8134	109.1572	107.9295	4.8665e-01	4.2397e+00
146	IHT000019	107.4256	109.5741	108.3823	5.9032e-01	4.2408e+00
147	IHT000020	105.9721	107.9252	106.7773	5.2231e-01	4.2368e+00
148	IHT000021	-2.7907	0.1390	-1.6747	6.3913e-01	4.1000e+00
149	IHT000022	92.6270	94.7754	93.5756	5.6382e-01	4.2054e+00
150	IHT000023	105.3523	107.3054	106.1575	5.2078e-01	4.2352e+00
151	IHT000024	70.6918	72.6450	71.4014	4.9906e-01	4.1617e+00
152	IHT000025	102.4677	104.6161	103.4762	5.2943e-01	4.2286e+00
153	IHT000026	105.0856	107.0388	106.0024	4.8371e-01	4.2348e+00
154	IHT000027	89.8625	92.2063	91.0105	5.3434e-01	4.1998e+00
155	IHT000028	90.5987	93.3331	91.9101	5.9669e-01	4.2018e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8068	108.5412	106.8830	6.3052e-01	4.2370e+00
157	IHT000030	108.3120	110.8511	109.4759	6.5018e-01	4.2436e+00
158	IHT000031	106.1974	108.9318	107.4490	6.2393e-01	4.2385e+00
159	IHT000032	107.0425	109.9722	108.3618	6.4597e-01	4.2408e+00
160	IHT000033	107.0237	109.7581	108.2833	6.3422e-01	4.2406e+00
161	IHT000034	93.9340	96.2778	94.9983	5.4089e-01	4.2086e+00
162	IHT000035	123.3774	126.1118	124.8921	5.4157e-01	4.2860e+00
163	IHT000036	92.4204	94.9594	93.6401	5.3567e-01	4.2056e+00

Velocity 1 = 0.011300 (ft/sec)
 Velocity 2 = 0.013500 (ft/sec)
 Pressure Drop = 0.019000 (psi)
 Tsat in = 0.122620 (deg F) Tsat out = 0.116913 (deg F)
 Phi inner = 0.561203 (kBtu/hr-ft2) Phi outer = 0.061203 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1048	0.1403
1	TRF000002	0.0719	0.0958
2	TFM000001	0.5547	0.6381
3	TIN000001	0.5551	0.6391
4	TRV000001	0.4904	0.5597
5	TSR000001	0.3648	0.2501
6	EMPTY	0.0139	0.0362
7	TAO050136	0.2791	0.1721
8	TAO070136	0.4565	0.2674
9	TAO080136	0.3484	0.2041
10	TAO090136	0.6718	0.3796
11	TAO100136	0.3214	0.1745
12	TAO105136	0.2246	0.1199
13	EMPTY	0.0000	0.0000
14	TAO115136	0.4365	0.2216
15	EMPTY	0.9744	2.6031
16	TAO125136	0.3923	0.1939
17	EMPTY	0.0017	0.0038
18	EMPTY	0.0069	0.0166
19	TAO130048	0.3647	0.1944
20	TAO120224	0.2273	0.1177
21	EMPTY	0.0238	0.0608
22	TAO120312	0.2972	0.1508
23	TAO130312	0.3610	0.1906
24	EMPTY	0.0185	0.0470
25	TRT070000	0.2745	0.1568
26	TRT100000	0.3714	0.1944
27	TRT120000	0.3833	0.1967
28	TRT125000	0.3284	0.1669
29	EMPTY	0.0261	0.0654
30	EMPTY	0.0474	0.1196
31	TAF050136	0.4856	0.4203
32	TAF070136	0.4829	0.3868
33	TAF080136	0.4728	0.3669
34	TAF090136	0.4956	0.3719
35	TAF100136	0.4319	0.3086
36	TAF105136	0.5600	0.3882
37	TAF110136	0.4350	0.2933
38	TAF115136	0.4595	0.3027
39	TAF120136	0.4701	0.3030
40	TAF125136	0.4608	0.2915
41	TAF130136	0.3857	0.2400
42	TAF120048	0.4900	0.3155
43	TAF130048	0.4575	0.2878
44	TAF120224	0.5107	0.3306
45	TAF130224	0.5043	0.3157

#	Name	Abs Diff	%Diff
46	EMPTY	0.0143	0.0377
47	EMPTY	0.0276	0.0701
48	TAI130048	0.4214	0.2122
49	TAI130136	0.4206	0.2113
50	TAI130224	0.4135	0.2079
51	TAI130312	0.4892	0.2478
52	TRR130000	1.8487	1.6922
53	TSI000001	0.5014	1.1953
54	TSI000002	0.9660	1.2024
55	TSO000001	0.5589	1.3751
56	TSO000002	0.3940	0.7758
57	TAF020136	0.5462	0.5527
58	EMPTY	0.0893	0.2065
59	TAF130312	0.5932	0.3642
60	EMPTY	0.0174	0.7598
61	EMPTY	0.0166	0.7247
62	EMPTY	0.0167	0.7283
63	EMPTY	0.0166	0.7220
64	EMPTY	0.0062	0.5520
65	EMPTY	0.0052	0.4569
66	EMPTY	0.0069	0.5989
67	EMPTY	0.0072	0.6181
68	EMPTY	0.0059	0.5027
69	EMPTY	0.0048	0.4045
70	EMPTY	0.0068	0.5662
71	EMPTY	0.0061	0.5000
72	EMPTY	0.0063	0.5122
73	EMPTY	0.0059	0.4739
74	EMPTY	0.0049	0.3904
75	EMPTY	0.0044	0.3473
76	EMPTY	0.0053	0.4143
77	EMPTY	0.0046	0.3555
78	EMPTY	0.0049	0.3732
79	EMPTY	0.0046	0.3451
80	PAN020136	0.0795	0.6789
81	PAN050136	0.0152	0.0675
82	PAN070136	0.1162	0.8163
83	PAN080136	0.0324	0.4311
84	PAN090136	0.0234	0.3034
85	PAN100136	0.0309	0.4206
86	PAN105136	0.0099	0.3311
87	PAN110136	0.0085	0.2458
88	PAN115136	0.0145	0.3958
89	PAN120136	0.0096	0.2395
90	PAN125136	0.0408	1.0463
91	PAN130136	0.0164	0.4107
92	PAN120048	0.0201	0.2386
93	PAN130048	0.0042	0.0532
94	PAN120224	0.0006	0.0080
95	PAN130224	0.0173	0.2213
96	PAN120312	0.0387	0.5309
97	PAN130312	0.0516	0.6571
98	PAB000136	0.1111	0.1847
99	PAB100136	0.1047	0.1674
100	PAB125136	0.1095	0.1730

#	Name	Abs Diff	%Diff
101	PIN000001	0.0908	0.1515
102	PRV000001	0.1943	0.9846
103	PSR000001	0.0952	0.1503
104	PFM000001	0.0235	0.3203
105	PAN000136	0.5273	0.5709
106	PFM000002	0.0284	0.3824
107	EMPTY	0.0020	250.0000
108	EMPTY	1.9431	24.6062
109	EMPTY	0.0013	433.3333
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	14.2857
112	VPW000001	0.0454	0.0444
113	VPW000002	0.2230	0.1868
114	VPW000003	0.0822	0.0558
115	VPW000004	0.0910	0.0865
116	VPW000005	0.1738	0.1244
117	VPW000006	0.0483	0.0331
118	IPW000001	7.1192	1.2549
119	IPW000002	11.2235	0.8715
120	IPW000003	8.5602	0.6527
121	IPW000004	0.5148	0.1338
122	IPW000005	0.0797	0.0313
123	IPW000006	1.1523	0.4323
124	EMPTY	0.0012	5.7416
125	EMPTY	0.0009	6.2500
126	EMPTY	0.0028	16.3743
127	EMPTY	0.0006	3.4682
128	IHT000001	0.1794	0.1357
129	IHT000002	0.1905	0.1447
130	IHT000003	0.1693	0.1298
131	IHT000004	0.1268	0.0956
132	IHT000005	0.1611	0.1230
133	IHT000006	0.1620	0.1279
134	IHT000007	0.1527	0.1149
135	IHT000008	0.2094	0.1590
136	IHT000009	0.1855	0.1412
137	IHT000010	0.0549	0.0417
138	IHT000011	0.0542	0.0409
139	IHT000012	0.1032	0.0784
140	IHT000013	0.0434	0.0467
141	IHT000014	0.0286	0.0222
142	IHT000015	0.0129	0.0135
143	IHT000016	0.0288	0.0320
144	IHT000017	0.4612	0.4339
145	IHT000018	0.1418	0.1312
146	IHT000019	0.1488	0.1371
147	IHT000020	0.2144	0.2004
148	IHT000021	0.1223	7.8781
149	IHT000022	0.1490	0.1590
150	IHT000023	0.1636	0.1539
151	IHT000024	0.0913	0.1277
152	IHT000025	0.0697	0.0673
153	IHT000026	0.0637	0.0601
154	IHT000027	0.0152	0.0167
155	IHT000028	0.2081	0.2259

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2246	0.2097
157	IHT000030	0.2189	0.1996
158	IHT000031	0.2133	0.1981
159	IHT000032	0.1924	0.1772
160	IHT000033	0.1936	0.1785
161	IHT000034	0.1154	0.1213
162	IHT000035	0.1221	0.0977
163	IHT000036	0.1045	0.1115

Velocity 1 = 5.9443 (ft/sec) (+/- 5.7921 %)
Velocity 2 = 5.9808 (ft/sec) (+/- 3.8426 %)
Pressure drop = -3.8711 (psi)
Tsats in = 293.0719 (deg F) Tsats out = 296.9794 (deg F)
Phi inner = 99.9332 (kBtu/hr-ft2) (+/- 1.5717 %)
Phi outer = 100.8389 (kBtu/hr-ft2) (+/- 1.5501 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4408	75.2911	74.9297	1.9325e-01	1.9000e+00
1	TRF000002	74.8725	75.5070	75.1982	1.2966e-01	1.9000e+00
2	TFM000001	86.3644	87.0982	86.7543	1.7979e-01	1.9002e+00
3	TIN000001	86.3232	87.0593	86.6514	1.6669e-01	1.9002e+00
4	TRV000001	87.5149	88.5620	88.0384	2.2468e-01	1.9002e+00
5	TSR000001	147.8741	149.3704	148.6725	3.1605e-01	1.9042e+00
6	EMPTY	37.9974	38.6870	38.4112	2.4129e-01	1.9010e+00
7	TAO050136	171.1579	172.1399	171.5979	2.2635e-01	1.9069e+00
8	TAO070136	180.8966	181.7793	181.3792	2.1956e-01	1.9083e+00
9	TAO080136	179.9686	180.8468	180.3747	1.8310e-01	1.9082e+00
10	TAO090136	176.6508	177.4343	177.1288	1.9946e-01	1.9077e+00
11	TAO100136	196.7426	197.4194	197.0751	1.5271e-01	1.9108e+00
12	TAO105136	200.1967	201.4508	200.8259	2.9822e-01	1.9115e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	210.5561	211.6122	211.0050	2.1915e-01	1.9133e+00
15	EMPTY	31.7686	41.4403	37.3546	2.5391e+00	1.9009e+00
16	TAO125136	217.1266	217.9833	217.5189	1.7692e-01	1.9146e+00
17	EMPTY	44.8706	45.5552	45.2084	1.9689e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5457	1.1533e-01	1.9012e+00
19	TAO130048	200.7368	201.4110	201.1027	1.6955e-01	1.9115e+00
20	TAO120224	207.7459	208.6096	208.1335	1.9483e-01	1.9128e+00
21	EMPTY	38.9168	39.3761	39.0224	1.2460e-01	1.9010e+00
22	TAO120312	211.4028	212.4572	211.9627	2.4746e-01	1.9135e+00
23	TAO130312	203.4593	204.2286	203.7672	1.7154e-01	1.9120e+00
24	EMPTY	39.1464	39.6057	39.3853	1.9104e-01	1.9010e+00
25	TRT070000	185.8835	187.0595	186.5503	2.2811e-01	1.9091e+00
26	TRT100000	204.6670	205.8196	205.2549	2.0321e-01	1.9123e+00
27	TRT120000	209.5007	210.0762	209.7888	1.5735e-01	1.9131e+00
28	TRT125000	211.4826	212.2463	211.9489	1.8043e-01	1.9135e+00
29	EMPTY	39.8352	40.0646	39.9866	1.0980e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6378	2.2245e-01	1.9011e+00
31	TAF050136	119.3095	120.5326	119.8925	2.7712e-01	1.9017e+00
32	TAF070136	129.9075	131.3200	130.7549	3.1482e-01	1.9025e+00
33	TAF080136	134.8298	135.9335	135.4852	2.4959e-01	1.9029e+00
34	TAF090136	140.1303	141.4377	140.6651	2.6456e-01	1.9034e+00
35	TAF100136	148.0550	149.0575	148.4282	2.4635e-01	1.9041e+00
36	TAF105136	152.7116	153.7037	153.2352	2.5693e-01	1.9047e+00
37	TAF110136	157.4571	158.3496	158.0358	2.1403e-01	1.9052e+00
38	TAF115136	161.4500	162.6375	162.0240	2.5202e-01	1.9057e+00
39	TAF120136	165.4793	166.2677	165.8858	1.8749e-01	1.9062e+00
40	TAF125136	168.5890	169.6698	169.2296	2.7316e-01	1.9066e+00
41	TAF130136	172.0545	172.8407	172.4795	1.7582e-01	1.9071e+00
42	TAF120048	165.6085	166.9995	166.2445	3.3871e-01	1.9062e+00
43	TAF130048	170.0217	171.0058	170.5728	2.2057e-01	1.9068e+00
44	TAF120224	164.7716	166.3502	165.4192	3.0313e-01	1.9061e+00
45	TAF130224	170.8483	172.2306	171.5352	2.4596e-01	1.9069e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0388	1.8977e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5414	1.1399e-01	1.9011e+00
48	TAI130048	213.2770	214.0422	213.6367	1.3742e-01	1.9138e+00
49	TAI130136	213.8289	214.4979	214.2188	1.5528e-01	1.9140e+00
50	TAI130224	213.7968	214.3712	214.1185	1.4946e-01	1.9139e+00
51	TAI130312	212.1934	212.8637	212.4729	1.5213e-01	1.9136e+00
52	TRR130000	114.2226	116.1665	115.0663	4.3268e-01	1.9014e+00
53	TSI000001	42.3735	43.2437	42.9307	1.9610e-01	1.9005e+00
54	TSI000002	81.1852	84.0195	82.3277	6.3209e-01	1.9001e+00
55	TSO000001	41.0564	42.0396	41.5149	2.2729e-01	1.9005e+00
56	TSO000002	51.9133	52.9937	52.3758	2.4497e-01	1.9002e+00
57	TAF020136	99.7210	101.1832	100.6523	3.0174e-01	1.9006e+00
58	EMPTY	42.8139	43.7285	43.2987	2.5571e-01	1.9013e+00
59	TAF130312	174.4883	175.7630	175.0258	2.7451e-01	1.9074e+00
60	EMPTY	2.5781	2.5928	2.5840	2.9594e-03	0.0000e+00
61	EMPTY	2.5781	2.5879	2.5832	1.6972e-03	0.0000e+00
62	EMPTY	2.5781	2.5879	2.5830	1.3951e-03	0.0000e+00
63	EMPTY	2.5830	2.5928	2.5877	1.3811e-03	0.0000e+00
64	EMPTY	1.2500	1.2549	1.2501	6.9053e-04	0.0000e+00
65	EMPTY	1.2646	1.2695	1.2652	1.6028e-03	0.0000e+00
66	EMPTY	1.2744	1.2793	1.2771	2.4484e-03	0.0000e+00
67	EMPTY	1.2842	1.2939	1.2892	1.2041e-03	0.0000e+00
68	EMPTY	1.2988	1.2988	1.2988	0.0000e+00	0.0000e+00
69	EMPTY	1.3086	1.3135	1.3128	1.7115e-03	0.0000e+00
70	EMPTY	1.3232	1.3232	1.3232	0.0000e+00	0.0000e+00
71	EMPTY	1.3379	1.3428	1.3427	6.9053e-04	0.0000e+00
72	EMPTY	1.3477	1.3525	1.3519	1.7115e-03	0.0000e+00
73	EMPTY	1.3623	1.3721	1.3659	2.3778e-03	0.0000e+00
74	EMPTY	1.3721	1.3770	1.3766	1.3381e-03	0.0000e+00
75	EMPTY	1.3867	1.3916	1.3874	1.7115e-03	0.0000e+00
76	EMPTY	1.3965	1.4014	1.3973	1.8082e-03	0.0000e+00
77	EMPTY	1.4111	1.4160	1.4129	2.3675e-03	0.0000e+00
78	EMPTY	1.4307	1.4355	1.4311	1.3381e-03	0.0000e+00
79	EMPTY	1.4502	1.4551	1.4506	1.3381e-03	0.0000e+00
80	PAN020136	-13.7621	-13.2280	-13.4737	1.4967e-01	8.7065e-01
81	PAN050136	-26.2020	-25.5917	-25.8633	1.8571e-01	1.6812e+00
82	PAN070136	-17.0117	-16.4777	-16.7691	9.3364e-02	8.7101e-01
83	PAN080136	-8.7502	-8.3687	-8.5763	8.1620e-02	8.7026e-01
84	PAN090136	-8.8528	-8.6239	-8.7201	6.5049e-02	8.7027e-01
85	PAN100136	-8.5800	-8.2748	-8.4701	7.0903e-02	8.7026e-01
86	PAN105136	-3.7288	-3.4999	-3.6601	6.5847e-02	8.7005e-01
87	PAN110136	-4.1880	-3.9591	-4.0766	7.5841e-02	8.7006e-01
88	PAN115136	-4.2496	-4.0207	-4.1809	5.6107e-02	8.7006e-01
89	PAN120136	-4.5314	-4.3025	-4.4032	7.4625e-02	8.7007e-01
90	PAN125136	-4.4961	-4.2672	-4.3756	7.2444e-02	8.7007e-01
91	PAN130136	-4.6385	-4.3333	-4.4386	6.1443e-02	8.7007e-01
92	PAN120048	-9.6481	-9.3430	-9.4910	7.6154e-02	8.7032e-01
93	PAN130048	-8.9791	-8.6739	-8.8082	8.2373e-02	8.7028e-01
94	PAN120224	-8.6196	-8.3144	-8.4471	7.8307e-02	8.7026e-01
95	PAN130224	-8.8778	-8.5726	-8.7176	8.0462e-02	8.7027e-01
96	PAN120312	-8.4420	-8.1368	-8.2681	8.3063e-02	8.7025e-01
97	PAN130312	-8.9116	-8.6064	-8.7788	8.2733e-02	8.7028e-01
98	PAB000136	60.2278	60.5940	60.4201	7.6263e-02	5.9935e-01
99	PAB100136	63.1100	63.2931	63.2226	4.9120e-02	6.0115e-01
100	PAB125136	63.9463	64.1294	64.0397	5.2285e-02	6.0169e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	60.0051	60.6155	60.3030	1.4414e-01	7.6500e-01
102	PRV000001	19.7336	19.7336	19.7336	7.7069e-06	7.5162e-01
103	PSR000001	64.0897	64.2118	64.1654	5.9853e-02	7.6696e-01
104	PFM000001	5.1938	5.5600	5.3916	8.3460e-02	5.0018e-01
105	PAN000136	-109.5545	-104.5191	-107.1741	1.1735e+00	4.9273e+00
106	PFM000002	5.4112	5.5286	5.4591	3.2518e-02	2.0047e-01
107	EMPTY	-0.0049	0.0000	-0.0046	1.1714e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0021	2.4344e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0016	2.3008e-03	0.0000e+00
112	VPW000001	101.7428	103.5006	102.3560	3.6382e-01	1.0165e+00
113	VPW000002	118.7876	119.9594	119.3462	2.4005e-01	1.0811e+00
114	VPW000003	146.9126	148.2798	147.4634	2.7534e-01	1.1996e+00
115	VPW000004	104.5786	105.9458	105.2700	3.1619e-01	1.0272e+00
116	VPW000005	139.2879	140.8504	139.7723	3.1130e-01	1.1659e+00
117	VPW000006	145.6956	146.8675	146.2074	2.6438e-01	1.1940e+00
118	IPW000001	556.9434	568.6575	561.5900	2.5832e+00	9.2354e+00
119	IPW000002	1286.2620	1299.9208	1292.4280	2.9595e+00	1.3033e+01
120	IPW000003	1309.4248	1325.0248	1316.3280	3.1073e+00	1.3181e+01
121	IPW000004	379.1222	384.4933	381.3488	1.2367e+00	3.6161e+00
122	IPW000005	252.3410	255.2704	254.1182	6.5250e-01	2.8338e+00
123	IPW000006	264.7518	267.1932	265.8065	5.7825e-01	2.8999e+00
124	EMPTY	-0.0293	-0.0146	-0.0215	3.2718e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0148	2.4083e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0174	2.6396e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0187	3.2253e-03	0.0000e+00
128	IHT000001	130.8819	133.0303	132.2139	5.6316e-01	4.3079e+00
129	IHT000002	130.2547	132.5984	131.5829	5.3525e-01	4.3060e+00
130	IHT000003	128.9551	131.2988	130.3887	5.1085e-01	4.3023e+00
131	IHT000004	131.2988	133.6426	132.6543	5.0595e-01	4.3093e+00
132	IHT000005	129.8415	131.9899	130.9118	5.2235e-01	4.3039e+00
133	IHT000006	125.1916	127.5353	126.5822	5.3473e-01	4.2910e+00
134	IHT000007	131.5880	134.1271	132.8732	5.6509e-01	4.3099e+00
135	IHT000008	130.2584	132.6021	131.6333	5.4528e-01	4.3061e+00
136	IHT000009	130.0969	132.2454	131.2961	4.8810e-01	4.3051e+00
137	IHT000010	130.9044	132.6623	131.7950	4.2711e-01	4.3066e+00
138	IHT000011	132.0012	133.7590	132.7941	4.0704e-01	4.3097e+00
139	IHT000012	130.9984	133.1468	131.8499	4.4426e-01	4.3068e+00
140	IHT000013	92.2025	94.3510	93.2612	4.3421e-01	4.2047e+00
141	IHT000014	127.8621	130.4012	128.9286	5.0872e-01	4.2979e+00
142	IHT000015	94.9294	97.4685	95.9255	5.2237e-01	4.2107e+00
143	IHT000016	89.1940	91.9283	90.2564	5.7067e-01	4.1982e+00
144	IHT000017	106.4190	109.1534	107.4346	5.7858e-01	4.2384e+00
145	IHT000018	107.3993	109.7431	108.5205	5.6194e-01	4.2412e+00
146	IHT000019	107.6209	109.7694	108.5975	5.6634e-01	4.2414e+00
147	IHT000020	105.9721	108.3158	107.0502	5.3560e-01	4.2374e+00
148	IHT000021	-2.4001	-0.0564	-1.4782	6.1768e-01	4.1000e+00
149	IHT000022	93.0176	95.3613	93.8574	5.8826e-01	4.2061e+00
150	IHT000023	105.3523	107.6961	106.3875	5.7487e-01	4.2358e+00
151	IHT000024	70.6918	72.8403	71.5630	5.5553e-01	4.1620e+00
152	IHT000025	102.6630	105.0068	103.6709	6.2435e-01	4.2290e+00
153	IHT000026	104.8903	107.4294	106.2145	6.3539e-01	4.2353e+00
154	IHT000027	89.8625	92.7922	91.2453	7.1881e-01	4.2003e+00
155	IHT000028	90.7940	93.7237	92.0557	6.5341e-01	4.2021e+00

Test: Feb05_06 sum1 Date: Mon Feb 5 13:18:06 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0021	108.7365	107.0763	6.1669e-01	4.2375e+00
157	IHT000030	108.5073	111.2417	109.6675	6.4526e-01	4.2441e+00
158	IHT000031	106.3927	108.9318	107.5646	6.1257e-01	4.2388e+00
159	IHT000032	107.4332	110.1675	108.4761	6.4550e-01	4.2411e+00
160	IHT000033	107.4144	110.1487	108.4183	6.5079e-01	4.2409e+00
161	IHT000034	94.1293	96.0825	94.9966	5.3693e-01	4.2086e+00
162	IHT000035	123.7680	126.1118	124.8892	5.4076e-01	4.2860e+00
163	IHT000036	92.8110	94.5688	93.7017	4.7047e-01	4.2057e+00

Test: Feb05_06 sum2 Date: Mon Feb 5 13:18:06 1990 Page: 1

Velocity 1 = 5.9699 (ft/sec) (+/- 5.7601 %)
 Velocity 2 = 5.9992 (ft/sec) (+/- 3.8383 %)
 Pressure drop = -3.8366 (psi)
 Tsat in = 292.6426 (deg F) Tsat out = 296.5851 (deg F)
 Phi inner = 100.3737 (kBtu/hr-ft2) (+/- 1.5706 %)
 Phi outer = 101.4390 (kBtu/hr-ft2) (+/- 1.5481 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6534	75.2911	74.9788	1.7411e-01	1.9000e+00
1	TRF000002	75.0841	75.5070	75.2739	1.3125e-01	1.9000e+00
2	TFM000001	86.5735	87.5170	87.0723	2.0800e-01	1.9002e+00
3	TIN000001	86.6387	87.3740	86.9753	1.5009e-01	1.9002e+00
4	TRV000001	87.7240	88.3531	88.0770	1.6646e-01	1.9002e+00
5	TSR000001	150.0658	151.5583	150.7190	3.6410e-01	1.9044e+00
6	EMPTY	37.9974	38.9168	38.4900	2.2498e-01	1.9010e+00
7	TAO050136	171.3553	172.0413	171.7490	1.5840e-01	1.9070e+00
8	TAO070136	180.8966	181.8777	181.5029	2.3140e-01	1.9084e+00
9	TAO080136	180.1638	180.8468	180.5023	1.8780e-01	1.9082e+00
10	TAO090136	172.2397	173.0262	172.6190	1.8812e-01	1.9071e+00
11	TAO100136	196.8388	197.6120	197.1962	2.0326e-01	1.9109e+00
12	TAO105136	200.2934	201.2581	200.7993	2.3330e-01	1.9115e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	210.6517	211.5162	211.1828	2.1578e-01	1.9134e+00
15	EMPTY	32.0000	41.4403	37.7180	2.2108e+00	1.9010e+00
16	TAO125136	217.2218	217.8877	217.6356	1.3683e-01	1.9146e+00
17	EMPTY	44.6423	45.5552	45.1687	1.9875e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5198	1.1017e-01	1.9012e+00
19	TAO130048	200.6410	201.4110	201.0673	1.6200e-01	1.9115e+00
20	TAO120224	207.8416	208.7048	208.2667	2.0353e-01	1.9128e+00
21	EMPTY	38.6870	39.3761	39.0574	1.4690e-01	1.9010e+00
22	TAO120312	211.4028	212.4572	212.0503	2.3192e-01	1.9135e+00
23	TAO130312	203.4593	204.2286	203.9361	1.7324e-01	1.9120e+00
24	EMPTY	39.1464	39.6057	39.4464	1.7663e-01	1.9010e+00
25	TRT070000	186.3749	187.2551	186.8077	1.8526e-01	1.9092e+00
26	TRT100000	205.0509	205.8192	205.3472	1.7729e-01	1.9123e+00
27	TRT120000	209.5009	210.1718	209.8337	1.8466e-01	1.9131e+00
28	TRT125000	211.6741	212.4364	212.0906	1.7904e-01	1.9136e+00
29	EMPTY	39.8352	40.0646	39.9616	1.1532e-01	1.9011e+00
30	EMPTY	39.3761	39.8352	39.6478	1.7326e-01	1.9011e+00
31	TAF050136	119.4111	120.6345	120.0460	2.5080e-01	1.9017e+00
32	TAF070136	130.3109	131.6226	130.9576	3.1347e-01	1.9025e+00
33	TAF080136	135.0303	136.2347	135.7056	2.7340e-01	1.9029e+00
34	TAF090136	140.2310	141.6382	140.8771	2.9311e-01	1.9034e+00
35	TAF100136	148.0550	149.1576	148.5645	2.3664e-01	1.9042e+00
36	TAF105136	152.9092	154.2960	153.4459	2.6949e-01	1.9047e+00
37	TAF110136	157.6559	158.7443	158.2496	2.2509e-01	1.9052e+00
38	TAF115136	161.7466	162.6375	162.1790	2.1807e-01	1.9057e+00
39	TAF120136	165.6770	166.2677	165.9986	1.5142e-01	1.9062e+00
40	TAF125136	168.6879	169.8654	169.3349	2.7283e-01	1.9066e+00
41	TAF130136	172.0556	172.9393	172.5003	2.1118e-01	1.9071e+00
42	TAF120048	165.4095	166.9995	166.2733	3.8185e-01	1.9062e+00
43	TAF130048	170.1200	171.2025	170.6242	2.3397e-01	1.9068e+00
44	TAF120224	164.9689	165.8579	165.4165	2.1987e-01	1.9061e+00
45	TAF130224	171.0447	172.4282	171.5126	2.7412e-01	1.9069e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9505	2.1500e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.4323	1.2861e-01	1.9010e+00
48	TAI130048	213.1816	214.0418	213.6225	1.8602e-01	1.9138e+00
49	TAI130136	213.8301	214.5924	214.1959	1.5982e-01	1.9140e+00
50	TAI130224	213.7968	214.5627	214.0995	1.7409e-01	1.9139e+00
51	TAI130312	212.0975	212.8637	212.4629	1.7448e-01	1.9136e+00
52	TRR130000	115.3490	117.1876	116.3120	4.4429e-01	1.9014e+00
53	TSI000001	41.8310	42.8091	42.4194	2.0094e-01	1.9005e+00
54	TSI000002	80.7639	82.6560	81.6095	5.0768e-01	1.9001e+00
55	TSO000001	40.5080	41.6018	41.0190	2.4199e-01	1.9006e+00
56	TSO000002	51.4812	52.5614	52.1009	2.3211e-01	1.9002e+00
57	TAF020136	99.9301	101.4955	100.7626	3.4509e-01	1.9006e+00
58	EMPTY	42.8139	43.7285	43.1546	2.6041e-01	1.9013e+00
59	TAF130312	174.6843	175.7625	175.1328	2.7853e-01	1.9074e+00
60	EMPTY	2.5781	2.5928	2.5848	4.1925e-03	0.0000e+00
61	EMPTY	2.5781	2.5879	2.5834	2.9629e-03	0.0000e+00
62	EMPTY	2.5781	2.5879	2.5832	2.4331e-03	0.0000e+00
63	EMPTY	2.5830	2.5977	2.5881	3.2995e-03	0.0000e+00
64	EMPTY	1.2500	1.2549	1.2508	1.8234e-03	0.0000e+00
65	EMPTY	1.2646	1.2695	1.2657	2.0584e-03	0.0000e+00
66	EMPTY	1.2744	1.2793	1.2785	1.8234e-03	0.0000e+00
67	EMPTY	1.2891	1.2939	1.2894	1.1827e-03	0.0000e+00
68	EMPTY	1.2988	1.2988	1.2988	0.0000e+00	0.0000e+00
69	EMPTY	1.3135	1.3135	1.3135	0.0000e+00	0.0000e+00
70	EMPTY	1.3232	1.3232	1.3232	0.0000e+00	0.0000e+00
71	EMPTY	1.3428	1.3428	1.3428	0.0000e+00	0.0000e+00
72	EMPTY	1.3525	1.3525	1.3525	0.0000e+00	0.0000e+00
73	EMPTY	1.3623	1.3672	1.3665	1.7263e-03	0.0000e+00
74	EMPTY	1.3721	1.3770	1.3768	9.7615e-04	0.0000e+00
75	EMPTY	1.3867	1.3916	1.3879	2.1215e-03	0.0000e+00
76	EMPTY	1.3965	1.4014	1.3976	2.0584e-03	0.0000e+00
77	EMPTY	1.4111	1.4160	1.4140	2.4247e-03	0.0000e+00
78	EMPTY	1.4307	1.4355	1.4311	1.3508e-03	0.0000e+00
79	EMPTY	1.4502	1.4551	1.4506	1.3508e-03	0.0000e+00
80	PAN020136	-13.8384	-13.1517	-13.4600	1.5015e-01	8.7065e-01
81	PAN050136	-26.2020	-25.4391	-25.7785	1.7135e-01	1.6812e+00
82	PAN070136	-17.0117	-16.4777	-16.7065	1.1860e-01	8.7100e-01
83	PAN080136	-8.7502	-8.3687	-8.6054	7.8248e-02	8.7027e-01
84	PAN090136	-8.8528	-8.5476	-8.7314	8.2287e-02	8.7027e-01
85	PAN100136	-8.5800	-8.3511	-8.4507	6.0725e-02	8.7026e-01
86	PAN105136	-3.7288	-3.4999	-3.6571	5.2601e-02	8.7005e-01
87	PAN110136	-4.1880	-3.9591	-4.0790	6.7883e-02	8.7006e-01
88	PAN115136	-4.3259	-4.0207	-4.1826	7.0740e-02	8.7006e-01
89	PAN120136	-4.5314	-4.3025	-4.3897	6.2294e-02	8.7007e-01
90	PAN125136	-4.4961	-4.2672	-4.3653	7.6294e-02	8.7007e-01
91	PAN130136	-4.5622	-4.3333	-4.4283	5.5128e-02	8.7007e-01
92	PAN120048	-9.5718	-9.3430	-9.4784	5.6721e-02	8.7032e-01
93	PAN130048	-8.9028	-8.6739	-8.7922	6.2413e-02	8.7028e-01
94	PAN120224	-8.6196	-8.3144	-8.4467	6.7481e-02	8.7026e-01
95	PAN130224	-8.8778	-8.4964	-8.6941	6.5922e-02	8.7027e-01
96	PAN120312	-8.4420	-8.0605	-8.2380	8.9987e-02	8.7024e-01
97	PAN130312	-8.9879	-8.5301	-8.7823	9.7510e-02	8.7028e-01
98	PAB000136	59.8616	60.1820	60.0307	7.9399e-02	5.9910e-01
99	PAB100136	62.7438	62.9727	62.8326	5.8658e-02	6.0089e-01
100	PAB125136	63.5801	63.8090	63.6679	5.3545e-02	6.0144e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.6389	60.2493	59.9154	1.6859e-01	7.6481e-01
102	PRV000001	19.9778	20.0998	20.0301	6.1035e-02	7.5167e-01
103	PSR000001	63.7235	63.9676	63.8007	6.4468e-02	7.6677e-01
104	PFM000001	5.2854	5.5600	5.4386	6.8379e-02	5.0018e-01
105	PAN000136	-109.5545	-103.6036	-106.2194	1.1213e+00	4.9272e+00
106	PFM000002	5.4279	5.5454	5.4930	2.5547e-02	2.0047e-01
107	EMPTY	-0.0049	0.0049	0.0011	3.8942e-03	0.0000e+00
108	EMPTY	-10.0000	-4.1797	-9.5774	1.2634e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0005	1.7954e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	102.1334	102.7194	102.3366	1.6895e-01	1.0164e+00
113	VPW000002	119.1782	119.7641	119.4253	1.3681e-01	1.0815e+00
114	VPW000003	147.1079	147.6938	147.4387	1.3928e-01	1.1994e+00
115	VPW000004	104.9692	105.5552	105.2243	1.4487e-01	1.0270e+00
116	VPW000005	139.4832	140.0691	139.7663	1.4408e-01	1.1659e+00
117	VPW000006	145.8909	146.4769	146.2178	1.0836e-01	1.1941e+00
118	IPW000001	556.9434	562.8005	559.1348	1.5244e+00	9.2261e+00
119	IPW000002	1297.9695	1307.7258	1304.4209	3.0125e+00	1.3107e+01
120	IPW000003	1319.1748	1325.0248	1322.0797	1.5479e+00	1.3217e+01
121	IPW000004	383.5167	385.4698	384.3438	5.7433e-01	3.6358e+00
122	IPW000005	254.2939	255.7586	255.1310	2.9898e-01	2.8394e+00
123	IPW000006	266.2166	268.1697	267.2332	3.8391e-01	2.9081e+00
124	EMPTY	-0.0293	-0.0146	-0.0202	3.4527e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0133	2.2287e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0163	2.9146e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0166	2.8047e-03	0.0000e+00
128	IHT000001	131.2725	133.6163	132.3208	5.0381e-01	4.3082e+00
129	IHT000002	130.6453	132.7937	131.6618	5.0740e-01	4.3062e+00
130	IHT000003	129.5410	131.8848	130.5096	5.1515e-01	4.3027e+00
131	IHT000004	131.6895	134.6191	132.8055	5.7082e-01	4.3097e+00
132	IHT000005	129.8415	132.7712	131.0333	5.8627e-01	4.3043e+00
133	IHT000006	125.5822	128.3166	126.7261	5.3191e-01	4.2914e+00
134	IHT000007	132.1740	134.7130	133.0309	5.1492e-01	4.3104e+00
135	IHT000008	130.8443	133.1881	131.8208	5.1366e-01	4.3067e+00
136	IHT000009	130.2922	132.4407	131.4281	5.2237e-01	4.3055e+00
137	IHT000010	130.7091	132.4669	131.5302	4.8169e-01	4.3058e+00
138	IHT000011	131.8059	133.3684	132.5472	4.2000e-01	4.3089e+00
139	IHT000012	130.8030	132.5609	131.6162	4.4457e-01	4.3061e+00
140	IHT000013	92.0072	93.9603	92.9798	4.5890e-01	4.2041e+00
141	IHT000014	127.2762	129.6199	128.5876	4.9475e-01	4.2969e+00
142	IHT000015	94.3435	96.6872	95.6509	4.6699e-01	4.2101e+00
143	IHT000016	88.6080	91.1471	89.8835	4.9007e-01	4.1974e+00
144	IHT000017	105.2472	108.3722	106.8973	7.6174e-01	4.2371e+00
145	IHT000018	107.0087	108.9618	108.0730	5.0753e-01	4.2400e+00
146	IHT000019	107.6209	110.1600	108.6135	5.3613e-01	4.2414e+00
147	IHT000020	106.1674	108.5111	107.0523	5.1227e-01	4.2375e+00
148	IHT000021	-2.5954	0.3343	-1.3956	6.1634e-01	4.1000e+00
149	IHT000022	92.8223	94.9707	93.7311	4.7767e-01	4.2058e+00
150	IHT000023	105.3523	107.5008	106.3887	4.6520e-01	4.2358e+00
151	IHT000024	70.4965	72.4497	71.5728	4.4951e-01	4.1620e+00
152	IHT000025	102.6630	104.8114	103.6635	4.7447e-01	4.2290e+00
153	IHT000026	105.2810	107.2341	106.1579	5.0919e-01	4.2352e+00
154	IHT000027	90.0579	92.0110	91.0503	4.7648e-01	4.1999e+00
155	IHT000028	90.9893	93.7237	92.0296	5.6577e-01	4.2020e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0021	108.5412	107.1461	5.3785e-01	4.2377e+00
157	IHT000030	108.5073	111.0464	109.6872	5.2128e-01	4.2442e+00
158	IHT000031	106.3927	108.9318	107.6284	5.3099e-01	4.2389e+00
159	IHT000032	107.2378	109.7769	108.4934	5.4226e-01	4.2411e+00
160	IHT000033	107.2190	109.7581	108.4427	5.5354e-01	4.2410e+00
161	IHT000034	93.9340	95.8872	95.0262	4.1416e-01	4.2087e+00
162	IHT000035	123.9633	125.7212	124.9041	4.2879e-01	4.2860e+00
163	IHT000036	92.8110	94.3735	93.6600	3.9578e-01	4.2056e+00

Velocity 1 = 0.025600 (ft/sec)
 Velocity 2 = 0.018400 (ft/sec)
 Pressure Drop = 0.034500 (psi)
 Tsat in = 0.429291 (deg F) Tsat out = 0.394287 (deg F)
 Phi inner = 0.440506 (kBtu/hr-ft2) Phi outer = 0.600105 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0491	0.0655
1	TRF000002	0.0757	0.1007
2	TFM000001	0.3180	0.3666
3	TIN000001	0.3239	0.3738
4	TRV000001	0.0386	0.0438
5	TSR000001	2.0465	1.3765
6	EMPTY	0.0788	0.2051
7	TAO050136	0.1511	0.0881
8	TAO070136	0.1237	0.0682
9	TAO080136	0.1276	0.0707
10	TAO090136	4.5098	2.5461
11	TAO100136	0.1211	0.0614
12	TAO105136	0.0266	0.0132
13	EMPTY	0.0000	0.0000
14	TAO115136	0.1778	0.0843
15	EMPTY	0.3634	0.9728
16	TAO125136	0.1167	0.0537
17	EMPTY	0.0397	0.0878
18	EMPTY	0.0259	0.0623
19	TAO130048	0.0354	0.0176
20	TAO120224	0.1332	0.0640
21	EMPTY	0.0350	0.0897
22	TAO120312	0.0876	0.0413
23	TAO130312	0.1689	0.0829
24	EMPTY	0.0611	0.1551
25	TRT070000	0.2574	0.1380
26	TRT100000	0.0923	0.0450
27	TRT120000	0.0449	0.0214
28	TRT125000	0.1417	0.0669
29	EMPTY	0.0250	0.0625
30	EMPTY	0.0100	0.0252
31	TAF050136	0.1535	0.1280
32	TAF070136	0.2027	0.1550
33	TAF080136	0.2204	0.1627
34	TAF090136	0.2120	0.1507
35	TAF100136	0.1363	0.0918
36	TAF105136	0.2107	0.1375
37	TAF110136	0.2138	0.1353
38	TAF115136	0.1550	0.0957
39	TAF120136	0.1128	0.0680
40	TAF125136	0.1053	0.0622
41	TAF130136	0.0208	0.0121
42	TAF120048	0.0288	0.0173
43	TAF130048	0.0514	0.0301
44	TAF120224	0.0027	0.0016
45	TAF130224	0.0226	0.0132

#	Name	Abs Diff	%Diff
46	EMPTY	0.0883	0.2321
47	EMPTY	0.1091	0.2759
48	TAI130048	0.0142	0.0066
49	TAI130136	0.0229	0.0107
50	TAI130224	0.0190	0.0089
51	TAI130312	0.0100	0.0047
52	TRR130000	1.2457	1.0826
53	TSI000001	0.5113	1.1910
54	TSI000002	0.7182	0.8724
55	TSO000001	0.4959	1.1945
56	TSO000002	0.2749	0.5249
57	TAF020136	0.1103	0.1096
58	EMPTY	0.1441	0.3328
59	TAF130312	0.1070	0.0611
60	EMPTY	0.0008	0.0310
61	EMPTY	0.0002	0.0077
62	EMPTY	0.0002	0.0077
63	EMPTY	0.0004	0.0155
64	EMPTY	0.0007	0.0560
65	EMPTY	0.0005	0.0395
66	EMPTY	0.0014	0.1096
67	EMPTY	0.0002	0.0155
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0007	0.0533
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0001	0.0074
72	EMPTY	0.0006	0.0444
73	EMPTY	0.0006	0.0439
74	EMPTY	0.0002	0.0145
75	EMPTY	0.0005	0.0360
76	EMPTY	0.0003	0.0215
77	EMPTY	0.0011	0.0779
78	EMPTY	0.0000	0.0000
79	EMPTY	0.0000	0.0000
80	PAN020136	0.0137	0.1017
81	PAN050136	0.0848	0.3279
82	PAN070136	0.0626	0.3733
83	PAN080136	0.0291	0.3393
84	PAN090136	0.0113	0.1296
85	PAN100136	0.0194	0.2290
86	PAN105136	0.0030	0.0820
87	PAN110136	0.0024	0.0589
88	PAN115136	0.0017	0.0407
89	PAN120136	0.0135	0.3066
90	PAN125136	0.0103	0.2354
91	PAN130136	0.0103	0.2321
92	PAN120048	0.0126	0.1328
93	PAN130048	0.0160	0.1816
94	PAN120224	0.0004	0.0047
95	PAN130224	0.0235	0.2696
96	PAN120312	0.0301	0.3640
97	PAN130312	0.0035	0.0399
98	PAB000136	0.3894	0.6445
99	PAB100136	0.3900	0.6169
100	PAB125136	0.3718	0.5806

#	Name	Abs Diff	%Diff
101	PIN000001	0.3876	0.6428
102	PRV000001	0.2965	1.5025
103	PSR000001	0.3647	0.5684
104	PFM000001	0.0470	0.8717
105	PAN000136	0.9547	0.8908
106	PFM000002	0.0339	0.6210
107	EMPTY	0.0057	123.9130
108	EMPTY	0.4226	4.2260
109	EMPTY	0.0026	123.8095
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0016	100.0000
112	VPW000001	0.0194	0.0190
113	VPW000002	0.0791	0.0663
114	VPW000003	0.0247	0.0167
115	VPW000004	0.0457	0.0434
116	VPW000005	0.0060	0.0043
117	VPW000006	0.0104	0.0071
118	IPW000001	2.4552	0.4372
119	IPW000002	11.9929	0.9279
120	IPW000003	5.7517	0.4370
121	IPW000004	2.9950	0.7854
122	IPW000005	1.0128	0.3986
123	IPW000006	1.4267	0.5367
124	EMPTY	0.0013	6.0465
125	EMPTY	0.0015	10.1351
126	EMPTY	0.0011	6.3218
127	EMPTY	0.0021	11.2299
128	IHT000001	0.1069	0.0809
129	IHT000002	0.0789	0.0600
130	IHT000003	0.1209	0.0927
131	IHT000004	0.1512	0.1140
132	IHT000005	0.1215	0.0928
133	IHT000006	0.1439	0.1137
134	IHT000007	0.1577	0.1187
135	IHT000008	0.1875	0.1424
136	IHT000009	0.1320	0.1005
137	IHT000010	0.2648	0.2009
138	IHT000011	0.2469	0.1859
139	IHT000012	0.2337	0.1772
140	IHT000013	0.2814	0.3017
141	IHT000014	0.3410	0.2645
142	IHT000015	0.2746	0.2863
143	IHT000016	0.3729	0.4132
144	IHT000017	0.5373	0.5001
145	IHT000018	0.4475	0.4124
146	IHT000019	0.0160	0.0147
147	IHT000020	0.0021	0.0020
148	IHT000021	0.0826	5.5879
149	IHT000022	0.1263	0.1346
150	IHT000023	0.0012	0.0011
151	IHT000024	0.0098	0.0137
152	IHT000025	0.0074	0.0071
153	IHT000026	0.0566	0.0533
154	IHT000027	0.1950	0.2137
155	IHT000028	0.0261	0.0284

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0698	0.0652
157	IHT000030	0.0197	0.0180
158	IHT000031	0.0638	0.0593
159	IHT000032	0.0173	0.0160
160	IHT000033	0.0244	0.0225
161	IHT000034	0.0296	0.0312
162	IHT000035	0.0149	0.0119
163	IHT000036	0.0417	0.0445

Velocity 1 = 5.1237 (ft/sec) (+/- 7.1693 %)
Velocity 2 = 5.1539 (ft/sec) (+/- 4.1264 %)
Pressure drop = -4.2392 (psi)
Tsat in = 292.9580 (deg F) Tsat out = 297.2649 (deg F)
Phi inner = 100.7354 (kBtu/hr-ft2) (+/- 1.5697 %)
Phi outer = 100.7460 (kBtu/hr-ft2) (+/- 1.5510 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8660	75.5036	75.1678	1.8760e-01	1.9000e+00
1	TRF000002	75.2955	75.7184	75.5028	1.0009e-01	1.9000e+00
2	TFM000001	87.0982	87.9368	87.5675	2.0331e-01	1.9002e+00
3	TIN000001	87.1635	87.7938	87.4326	1.6456e-01	1.9002e+00
4	TRV000001	87.5165	88.4585	88.0854	2.2294e-01	1.9002e+00
5	TSR000001	151.8582	156.2261	153.7927	1.5711e+00	1.9047e+00
6	EMPTY	37.7675	38.9168	38.3836	2.6449e-01	1.9010e+00
7	TAO050136	184.0363	184.7176	184.3482	1.5852e-01	1.9088e+00
8	TAO070136	194.5810	195.5527	195.1568	2.2112e-01	1.9105e+00
9	TAO080136	192.1729	192.9458	192.5828	1.9394e-01	1.9101e+00
10	TAO090136	176.1617	177.0434	176.6322	2.1400e-01	1.9076e+00
11	TAO100136	212.4975	213.1674	212.8419	1.4963e-01	1.9137e+00
12	TAO105136	219.9337	220.9812	220.5127	3.0153e-01	1.9152e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	229.1018	229.8616	229.4817	1.7580e-01	1.9171e+00
15	EMPTY	31.5371	41.4403	36.0859	3.3304e+00	1.9009e+00
16	TAO125136	235.0588	235.8112	235.4196	1.6715e-01	1.9183e+00
17	EMPTY	44.8706	45.5552	45.2951	1.5976e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5548	1.2461e-01	1.9012e+00
19	TAO130048	217.4421	218.1090	217.8115	1.5938e-01	1.9147e+00
20	TAO120224	226.0594	226.9133	226.5034	1.9208e-01	1.9164e+00
21	EMPTY	38.9168	39.3761	39.0546	1.2277e-01	1.9010e+00
22	TAO120312	230.8411	231.8825	231.3978	2.2678e-01	1.9175e+00
23	TAO130312	221.1111	221.8708	221.4609	1.5989e-01	1.9154e+00
24	EMPTY	39.1464	39.8352	39.4450	1.9266e-01	1.9010e+00
25	TRT070000	199.4566	200.4261	199.9371	2.3193e-01	1.9113e+00
26	TRT100000	221.3704	222.5100	222.0392	2.5233e-01	1.9155e+00
27	TRT120000	227.5948	228.3528	227.9701	1.7112e-01	1.9167e+00
28	TRT125000	229.9207	230.6736	230.3232	1.6269e-01	1.9172e+00
29	EMPTY	39.8352	40.2940	40.0463	1.1202e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6699	2.1271e-01	1.9011e+00
31	TAF050136	125.6119	126.6269	126.0428	2.6141e-01	1.9021e+00
32	TAF070136	137.5506	139.3560	138.5381	4.1777e-01	1.9032e+00
33	TAF080136	143.4279	145.0245	144.2707	3.7058e-01	1.9037e+00
34	TAF090136	149.5527	150.8504	150.2597	2.9976e-01	1.9043e+00
35	TAF100136	158.5419	159.5367	159.1110	2.5577e-01	1.9053e+00
36	TAF105136	164.2266	165.6020	164.8122	2.6161e-01	1.9060e+00
37	TAF110136	170.5446	172.0158	171.2627	2.7817e-01	1.9069e+00
38	TAF115136	174.6363	175.6163	175.0673	2.3342e-01	1.9074e+00
39	TAF120136	179.1742	180.0518	179.4517	1.9537e-01	1.9081e+00
40	TAF125136	183.0056	184.4607	183.5877	3.1716e-01	1.9087e+00
41	TAF130136	186.8875	187.6649	187.2570	1.8100e-01	1.9092e+00
42	TAF120048	179.3694	180.9423	180.1677	3.7440e-01	1.9082e+00
43	TAF130048	184.7067	185.8757	185.2253	2.4298e-01	1.9089e+00
44	TAF120224	178.4183	179.6882	179.0202	2.9439e-01	1.9080e+00
45	TAF130224	185.3102	186.2894	185.8431	2.7178e-01	1.9090e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0434	2.0774e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.5598	9.2764e-02	1.9011e+00
48	TAI130048	231.5252	232.0922	231.7861	1.1865e-01	1.9176e+00
49	TAI130136	231.9093	232.5701	232.2566	1.4323e-01	1.9177e+00
50	TAI130224	231.0395	231.9863	231.5851	1.6951e-01	1.9175e+00
51	TAI130312	230.1867	230.9440	230.5956	1.6051e-01	1.9173e+00
52	TRR130000	122.0771	124.6183	123.2569	5.9772e-01	1.9019e+00
53	TSI000001	41.8317	42.8110	42.4365	1.9428e-01	1.9005e+00
54	TSI000002	80.0298	82.0254	80.8911	4.8627e-01	1.9001e+00
55	TSO000001	40.5062	41.1629	40.8698	1.7598e-01	1.9006e+00
56	TSO000002	52.4532	53.3173	52.9588	2.2292e-01	1.9002e+00
57	TAF020136	102.5379	103.9975	103.4307	3.5855e-01	1.9008e+00
58	EMPTY	42.8139	43.5000	43.2622	2.2615e-01	1.9013e+00
59	TAF130312	189.5957	191.2439	190.6276	3.1983e-01	1.9098e+00
60	EMPTY	2.9590	2.9736	2.9653	3.4527e-03	0.0000e+00
61	EMPTY	2.9590	2.9688	2.9625	2.6174e-03	0.0000e+00
62	EMPTY	2.9590	2.9639	2.9602	2.1065e-03	0.0000e+00
63	EMPTY	2.9590	2.9688	2.9631	2.0598e-03	0.0000e+00
64	EMPTY	1.4111	1.4160	1.4136	2.4662e-03	0.0000e+00
65	EMPTY	1.4258	1.4307	1.4278	2.4344e-03	0.0000e+00
66	EMPTY	1.4355	1.4404	1.4390	2.2603e-03	0.0000e+00
67	EMPTY	1.4502	1.4502	1.4502	0.0000e+00	0.0000e+00
68	EMPTY	1.4551	1.4600	1.4588	2.1065e-03	0.0000e+00
69	EMPTY	1.4697	1.4746	1.4698	6.9053e-04	0.0000e+00
70	EMPTY	1.4795	1.4844	1.4802	1.7115e-03	0.0000e+00
71	EMPTY	1.4990	1.4990	1.4990	0.0000e+00	0.0000e+00
72	EMPTY	1.5039	1.5088	1.5075	2.1635e-03	0.0000e+00
73	EMPTY	1.5186	1.5234	1.5192	1.7115e-03	0.0000e+00
74	EMPTY	1.5283	1.5332	1.5286	1.1714e-03	0.0000e+00
75	EMPTY	1.5381	1.5430	1.5418	2.1065e-03	0.0000e+00
76	EMPTY	1.5479	1.5527	1.5502	2.4642e-03	0.0000e+00
77	EMPTY	1.5625	1.5674	1.5630	1.4797e-03	0.0000e+00
78	EMPTY	1.5771	1.5820	1.5816	1.3381e-03	0.0000e+00
79	EMPTY	1.6016	1.6016	1.6016	0.0000e+00	0.0000e+00
80	PAN020136	-15.1354	-14.6013	-14.8607	9.7485e-02	8.7079e-01
81	PAN050136	-28.6434	-28.0331	-28.2681	1.6373e-01	1.6815e+00
82	PAN070136	-18.6902	-18.2324	-18.4308	9.3758e-02	8.7122e-01
83	PAN080136	-9.5132	-9.2080	-9.3606	8.1562e-02	8.7031e-01
84	PAN090136	-9.6921	-9.4632	-9.5669	5.2858e-02	8.7033e-01
85	PAN100136	-9.4955	-9.1903	-9.3002	6.0015e-02	8.7031e-01
86	PAN105136	-4.3391	-4.1102	-4.2140	5.7176e-02	8.7006e-01
87	PAN110136	-5.2561	-4.9509	-5.0928	7.2313e-02	8.7009e-01
88	PAN115136	-4.0207	-3.7918	-3.9139	7.5511e-02	8.7006e-01
89	PAN120136	-4.8365	-4.5314	-4.6977	7.0111e-02	8.7008e-01
90	PAN125136	-4.8776	-4.6487	-4.7082	5.8267e-02	8.7008e-01
91	PAN130136	-4.8674	-4.5622	-4.7148	6.7187e-02	8.7008e-01
92	PAN120048	-10.3348	-10.1059	-10.2249	6.5685e-02	8.7038e-01
93	PAN130048	-9.6657	-9.4368	-9.5558	6.7469e-02	8.7033e-01
94	PAN120224	-8.7722	-8.4670	-8.6104	7.8049e-02	8.7027e-01
95	PAN130224	-9.4882	-9.2593	-9.3249	6.8949e-02	8.7031e-01
96	PAN120312	-9.2050	-8.8998	-9.0402	6.9550e-02	8.7029e-01
97	PAN130312	-9.5219	-9.2930	-9.4166	5.3149e-02	8.7032e-01
98	PAB000136	60.2278	60.4109	60.3166	5.7317e-02	5.9928e-01
99	PAB100136	63.2931	63.4762	63.3984	5.1699e-02	6.0127e-01
100	PAB125136	64.2210	64.4041	64.3098	4.8419e-02	6.0187e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	60.0051	60.4934	60.2273	9.1249e-02	7.6496e-01
102	PRV000001	19.7336	19.8557	19.7361	1.7263e-02	7.5162e-01
103	PSR000001	64.4559	64.5780	64.4705	4.0071e-02	7.6712e-01
104	PFM000001	3.8205	4.1867	3.9853	8.4761e-02	5.0010e-01
105	PAN000136	-119.6253	-115.9632	-117.3640	8.6958e-01	4.9287e+00
106	PFM000002	3.9681	4.0688	4.0332	2.4828e-02	2.0025e-01
107	EMPTY	-0.0049	-0.0049	-0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-4.0430	-9.2250	1.6250e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0031	2.3675e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0033	2.3008e-03	0.0000e+00
112	VPW000001	101.5475	102.7194	102.0318	2.4080e-01	1.0153e+00
113	VPW000002	118.9829	119.7641	119.3227	1.6178e-01	1.0810e+00
114	VPW000003	147.1079	148.0844	147.4673	2.2097e-01	1.1996e+00
115	VPW000004	104.7739	105.5552	105.1724	1.8907e-01	1.0268e+00
116	VPW000005	139.2879	140.4597	139.8153	2.5648e-01	1.1661e+00
117	VPW000006	145.8909	146.6722	146.2465	1.9206e-01	1.1942e+00
118	IPW000001	545.2294	553.0388	550.1494	1.9015e+00	9.1923e+00
119	IPW000002	1297.9695	1309.6771	1303.0428	2.4619e+00	1.3099e+01
120	IPW000003	1321.1248	1332.8248	1327.1702	2.7080e+00	1.3249e+01
121	IPW000004	378.6339	382.0519	379.9230	7.2999e-01	3.6067e+00
122	IPW000005	253.3175	255.7586	254.2939	5.5798e-01	2.8347e+00
123	IPW000006	266.7049	268.6580	267.5546	5.2949e-01	2.9099e+00
124	EMPTY	-0.0293	-0.0146	-0.0221	3.5895e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0156	2.7902e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0183	2.9280e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0185	3.0067e-03	0.0000e+00
128	IHT000001	131.2725	133.0303	132.1592	4.7713e-01	4.3077e+00
129	IHT000002	130.6453	132.5984	131.5438	4.5506e-01	4.3059e+00
130	IHT000003	129.5410	131.2988	130.3613	4.4117e-01	4.3023e+00
131	IHT000004	131.6895	133.6426	132.6465	4.8848e-01	4.3092e+00
132	IHT000005	129.8415	131.9899	130.8727	4.3769e-01	4.3038e+00
133	IHT000006	125.5822	127.5353	126.5431	4.5990e-01	4.2908e+00
134	IHT000007	131.9787	134.1271	132.8419	4.6032e-01	4.3098e+00
135	IHT000008	130.8443	132.4068	131.5865	4.3762e-01	4.3060e+00
136	IHT000009	130.2922	132.2454	131.1515	4.3584e-01	4.3047e+00
137	IHT000010	130.5138	132.8576	131.4044	5.4413e-01	4.3054e+00
138	IHT000011	131.2200	133.5637	132.3253	5.0780e-01	4.3082e+00
139	IHT000012	130.2171	132.5609	131.4398	5.2912e-01	4.3055e+00
140	IHT000013	91.4213	94.1556	92.7963	5.3954e-01	4.2037e+00
141	IHT000014	126.8855	129.6199	128.4325	4.9731e-01	4.2965e+00
142	IHT000015	94.1481	96.2966	95.4606	5.0074e-01	4.2097e+00
143	IHT000016	88.2174	90.5612	89.5611	4.7946e-01	4.1967e+00
144	IHT000017	105.8331	108.1768	106.9112	5.1786e-01	4.2371e+00
145	IHT000018	107.0087	108.9618	108.0322	4.8897e-01	4.2399e+00
146	IHT000019	107.6209	109.3788	108.4764	4.8470e-01	4.2411e+00
147	IHT000020	105.9721	107.9252	106.8471	4.8846e-01	4.2369e+00
148	IHT000021	-2.4001	0.3343	-1.4157	6.1758e-01	4.1000e+00
149	IHT000022	92.4316	94.5801	93.4629	5.3239e-01	4.2052e+00
150	IHT000023	105.3523	107.5008	106.2391	4.7221e-01	4.2354e+00
151	IHT000024	70.6918	72.6450	71.4028	4.5465e-01	4.1617e+00
152	IHT000025	102.8583	105.0068	103.5810	4.6059e-01	4.2288e+00
153	IHT000026	105.2810	107.4294	106.0817	4.4860e-01	4.2350e+00
154	IHT000027	89.8625	91.8157	90.8352	4.5930e-01	4.1994e+00
155	IHT000028	90.4034	92.7471	91.8252	5.2503e-01	4.2016e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6115	107.9552	107.0333	4.8334e-01	4.2374e+00
157	IHT000030	108.1167	110.6558	109.6050	5.0823e-01	4.2440e+00
158	IHT000031	106.1974	108.7365	107.5763	5.1207e-01	4.2388e+00
159	IHT000032	107.0425	109.7769	108.4800	5.4499e-01	4.2411e+00
160	IHT000033	107.0237	109.7581	108.4495	5.6393e-01	4.2410e+00
161	IHT000034	93.5434	95.8872	94.9692	4.6396e-01	4.2086e+00
162	IHT000035	123.3774	125.9165	124.9282	4.5405e-01	4.2861e+00
163	IHT000036	92.6157	94.3735	93.6509	4.0095e-01	4.2056e+00

Velocity 1 = 5.1294 (ft/sec) (+/- 7.1570 %)
 Velocity 2 = 5.1594 (ft/sec) (+/- 4.1238 %)
 Pressure drop = -4.2271 (psi)
 Tsat in = 292.9971 (deg F) Tsat out = 297.3141 (deg F)
 Phi inner = 100.9633 (kBtu/hr-ft2) (+/- 1.5691 %)
 Phi outer = 100.8803 (kBtu/hr-ft2) (+/- 1.5511 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8660	75.7160	75.2564	1.8066e-01	1.9000e+00
1	TRF000002	75.2955	75.9298	75.5588	1.4654e-01	1.9000e+00
2	TFM000001	87.0982	88.1461	87.5816	2.2709e-01	1.9002e+00
3	TIN000001	86.9539	87.8985	87.3438	1.7929e-01	1.9002e+00
4	TRV000001	88.2479	89.3990	88.9138	2.8039e-01	1.9002e+00
5	TSR000001	156.1268	157.8112	157.0042	4.6025e-01	1.9051e+00
6	EMPTY	37.9974	38.9168	38.4103	2.3913e-01	1.9010e+00
7	TAO050136	183.4544	184.2332	183.8932	1.8010e-01	1.9087e+00
8	TAO070136	194.4839	195.2608	194.8486	2.0265e-01	1.9105e+00
9	TAO080136	192.3657	193.0441	192.7569	1.5543e-01	1.9101e+00
10	TAO090136	179.5846	180.5618	180.0513	2.1226e-01	1.9081e+00
11	TAO100136	216.3156	217.0785	216.7359	1.7833e-01	1.9145e+00
12	TAO105136	217.8385	219.0771	218.4142	3.0875e-01	1.9148e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	226.9143	227.8642	227.3470	2.2201e-01	1.9166e+00
15	EMPTY	31.3055	41.8984	37.1312	3.6881e+00	1.9009e+00
16	TAO125136	234.6830	235.3415	234.9486	1.6706e-01	1.9182e+00
17	EMPTY	45.0988	45.5552	45.3131	1.5026e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5712	1.2371e-01	1.9012e+00
19	TAO130048	216.7782	217.4444	217.1433	1.7944e-01	1.9145e+00
20	TAO120224	224.5420	225.3963	225.0377	2.0796e-01	1.9161e+00
21	EMPTY	38.9168	39.3761	39.0714	1.3578e-01	1.9010e+00
22	TAO120312	229.3252	230.3674	229.8803	2.4912e-01	1.9171e+00
23	TAO130312	220.4474	221.2081	220.8642	1.9083e-01	1.9153e+00
24	EMPTY	39.1464	39.8352	39.4651	1.9219e-01	1.9010e+00
25	TRT070000	198.3866	199.1632	198.8337	2.1409e-01	1.9111e+00
26	TRT100000	222.4147	223.5530	222.8815	2.3235e-01	1.9157e+00
27	TRT120000	226.5533	227.2168	226.8957	1.6280e-01	1.9165e+00
28	TRT125000	229.0742	230.0168	229.4630	2.2573e-01	1.9171e+00
29	EMPTY	39.6057	40.0646	39.9944	1.1667e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.7040	2.3892e-01	1.9011e+00
31	TAF050136	124.8010	126.7284	125.8946	3.5713e-01	1.9021e+00
32	TAF070136	137.7530	139.0560	138.5015	2.7077e-01	1.9032e+00
33	TAF080136	143.5282	144.9244	144.2661	3.1330e-01	1.9037e+00
34	TAF090136	149.8521	151.0503	150.4128	2.8882e-01	1.9044e+00
35	TAF100136	158.7413	160.0336	159.3580	3.0030e-01	1.9054e+00
36	TAF105136	164.1298	165.2104	164.6728	2.6372e-01	1.9060e+00
37	TAF110136	169.6649	170.6456	170.1927	2.3085e-01	1.9068e+00
38	TAF115136	174.4404	175.3227	174.9145	2.0728e-01	1.9074e+00
39	TAF120136	178.8830	179.7608	179.2473	2.1701e-01	1.9080e+00
40	TAF125136	182.8118	184.0735	183.3313	3.1015e-01	1.9086e+00
41	TAF130136	186.5968	187.4714	187.0390	2.0905e-01	1.9092e+00
42	TAF120048	178.6792	180.1561	179.6590	3.7691e-01	1.9081e+00
43	TAF130048	184.4149	185.0972	184.7471	2.0464e-01	1.9088e+00
44	TAF120224	178.0274	179.2001	178.6599	3.0194e-01	1.9079e+00
45	TAF130224	185.0168	186.1905	185.6000	3.0536e-01	1.9090e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0303	1.9352e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.5260	1.1041e-01	1.9011e+00
48	TAI130048	231.0530	231.8091	231.4310	1.7041e-01	1.9175e+00
49	TAI130136	231.6271	232.3819	231.9355	1.6654e-01	1.9176e+00
50	TAI130224	230.9452	231.7023	231.2946	1.7726e-01	1.9174e+00
51	TAI130312	229.7136	230.4706	230.1191	1.6161e-01	1.9172e+00
52	TRR130000	121.4674	122.8926	122.1655	4.1331e-01	1.9018e+00
53	TSI000001	42.5920	43.4621	42.9564	2.2797e-01	1.9005e+00
54	TSI000002	78.6598	80.6604	79.6016	4.6428e-01	1.9001e+00
55	TSO000001	40.9443	41.8192	41.3753	1.9500e-01	1.9006e+00
56	TSO000002	53.1014	53.9645	53.4713	2.0187e-01	1.9002e+00
57	TAF020136	102.6426	104.1001	103.3549	3.2053e-01	1.9007e+00
58	EMPTY	42.8139	43.7285	43.0799	2.6549e-01	1.9012e+00
59	TAF130312	189.4997	191.0507	190.1525	2.9410e-01	1.9097e+00
60	EMPTY	2.9443	2.9541	2.9502	3.1486e-03	0.0000e+00
61	EMPTY	2.9395	2.9541	2.9459	2.8866e-03	0.0000e+00
62	EMPTY	2.9395	2.9492	2.9433	2.6332e-03	0.0000e+00
63	EMPTY	2.9443	2.9590	2.9461	2.9388e-03	0.0000e+00
64	EMPTY	1.4063	1.4111	1.4065	1.1827e-03	0.0000e+00
65	EMPTY	1.4209	1.4209	1.4209	0.0000e+00	0.0000e+00
66	EMPTY	1.4307	1.4355	1.4308	6.9754e-04	0.0000e+00
67	EMPTY	1.4404	1.4453	1.4421	2.3483e-03	0.0000e+00
68	EMPTY	1.4502	1.4551	1.4503	6.9754e-04	0.0000e+00
69	EMPTY	1.4600	1.4648	1.4640	1.8234e-03	0.0000e+00
70	EMPTY	1.4697	1.4746	1.4745	6.9754e-04	0.0000e+00
71	EMPTY	1.4893	1.4941	1.4908	2.2737e-03	0.0000e+00
72	EMPTY	1.4941	1.5039	1.4990	9.9670e-04	0.0000e+00
73	EMPTY	1.5088	1.5186	1.5137	9.9670e-04	0.0000e+00
74	EMPTY	1.5186	1.5234	1.5233	6.9754e-04	0.0000e+00
75	EMPTY	1.5332	1.5381	1.5337	1.4934e-03	0.0000e+00
76	EMPTY	1.5430	1.5430	1.5430	0.0000e+00	0.0000e+00
77	EMPTY	1.5527	1.5576	1.5575	6.9754e-04	0.0000e+00
78	EMPTY	1.5723	1.5771	1.5755	2.3483e-03	0.0000e+00
79	EMPTY	1.5918	1.5967	1.5951	2.3135e-03	0.0000e+00
80	PAN020136	-15.1354	-14.6776	-14.8582	9.3042e-02	8.7079e-01
81	PAN050136	-28.6434	-28.0331	-28.3133	1.3341e-01	1.6815e+00
82	PAN070136	-18.5376	-18.2324	-18.4208	7.9565e-02	8.7122e-01
83	PAN080136	-9.5132	-9.2080	-9.3481	8.9932e-02	8.7031e-01
84	PAN090136	-9.7683	-9.4632	-9.5519	6.8500e-02	8.7033e-01
85	PAN100136	-10.0295	-9.8007	-9.9128	6.6260e-02	8.7035e-01
86	PAN105136	-3.6525	-3.4999	-3.5684	5.6677e-02	8.7005e-01
87	PAN110136	-4.7220	-4.4169	-4.5632	7.4422e-02	8.7007e-01
88	PAN115136	-4.7073	-4.4785	-4.5843	5.3534e-02	8.7008e-01
89	PAN120136	-4.7603	-4.5314	-4.6622	8.2407e-02	8.7008e-01
90	PAN125136	-4.8013	-4.6487	-4.7219	5.8185e-02	8.7008e-01
91	PAN130136	-4.9437	-4.6385	-4.7101	6.8608e-02	8.7008e-01
92	PAN120048	-10.3348	-10.1059	-10.2273	6.0151e-02	8.7038e-01
93	PAN130048	-9.6657	-9.4368	-9.5552	6.2413e-02	8.7033e-01
94	PAN120224	-9.3062	-9.0773	-9.2175	6.4863e-02	8.7031e-01
95	PAN130224	-9.4882	-9.2593	-9.3340	6.1292e-02	8.7031e-01
96	PAN120312	-9.2050	-8.8998	-9.0446	6.4672e-02	8.7029e-01
97	PAN130312	-9.5219	-9.2930	-9.4145	6.0151e-02	8.7032e-01
98	PAB000136	60.2278	60.4567	60.3521	5.8354e-02	5.9930e-01
99	PAB100136	63.3389	63.5678	63.4538	5.9187e-02	6.0130e-01
100	PAB125136	64.2210	64.4499	64.3564	5.3644e-02	6.0190e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	60.0051	60.4934	60.2742	1.3869e-01	7.6499e-01
102	PRV000001	19.7336	19.8557	19.8133	5.8707e-02	7.5163e-01
103	PSR000001	64.4559	64.5780	64.5182	6.1655e-02	7.6715e-01
104	PFM000001	3.9121	4.0952	3.9943	7.2967e-02	5.0010e-01
105	PAN000136	-118.7098	-115.5055	-117.0282	7.3805e-01	4.9287e+00
106	PFM000002	3.9849	4.0856	4.0421	2.2439e-02	2.0026e-01
107	EMPTY	-0.0049	0.0049	-0.0037	2.7351e-03	0.0000e+00
108	EMPTY	-10.0000	-3.7402	-8.1575	2.3880e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0025	2.4662e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0012	2.1215e-03	0.0000e+00
112	VPW000001	101.9381	102.7194	102.3964	1.9348e-01	1.0166e+00
113	VPW000002	119.1782	119.7641	119.4453	1.5282e-01	1.0815e+00
114	VPW000003	147.1079	147.8891	147.5663	1.7172e-01	1.2000e+00
115	VPW000004	104.9692	105.7505	105.3479	1.9697e-01	1.0274e+00
116	VPW000005	139.4832	140.2644	139.9377	1.7554e-01	1.1666e+00
117	VPW000006	145.8909	146.6722	146.3215	1.9523e-01	1.1945e+00
118	IPW000001	539.3723	554.9911	547.4208	3.8972e+00	9.1822e+00
119	IPW000002	1297.9695	1309.6771	1303.3057	2.7241e+00	1.3100e+01
120	IPW000003	1323.0748	1334.7748	1329.2037	2.6101e+00	1.3262e+01
121	IPW000004	379.6105	382.0519	380.8063	6.1490e-01	3.6125e+00
122	IPW000005	254.2939	255.7586	254.8619	3.9042e-01	2.8379e+00
123	IPW000006	267.6815	269.1463	268.1001	3.9868e-01	2.9131e+00
124	EMPTY	-0.0293	-0.0098	-0.0206	3.7645e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0144	2.8119e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0174	3.7293e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0177	3.5511e-03	0.0000e+00
128	IHT000001	130.8819	133.6163	132.0936	5.6238e-01	4.3075e+00
129	IHT000002	130.2547	132.7937	131.4426	5.1957e-01	4.3055e+00
130	IHT000003	129.3457	131.2988	130.2704	5.1021e-01	4.3020e+00
131	IHT000004	131.6895	133.6426	132.5265	4.8828e-01	4.3089e+00
132	IHT000005	129.6462	131.7946	130.7582	4.7375e-01	4.3035e+00
133	IHT000006	125.1916	127.5353	126.4670	4.8024e-01	4.2906e+00
134	IHT000007	131.5880	133.9318	132.7838	4.9255e-01	4.3097e+00
135	IHT000008	130.6490	132.4068	131.5299	4.5652e-01	4.3058e+00
136	IHT000009	130.0969	132.0500	131.1252	4.4534e-01	4.3046e+00
137	IHT000010	130.7091	133.0529	131.7295	5.9035e-01	4.3064e+00
138	IHT000011	131.4153	134.1496	132.7226	5.7665e-01	4.3095e+00
139	IHT000012	130.6077	133.1468	131.7836	6.3224e-01	4.3066e+00
140	IHT000013	92.0072	94.5463	93.2150	5.8004e-01	4.2046e+00
141	IHT000014	127.8621	130.2058	128.8985	5.8213e-01	4.2978e+00
142	IHT000015	94.9294	97.0778	95.8422	5.3990e-01	4.2105e+00
143	IHT000016	89.1940	91.3424	90.0668	5.4824e-01	4.1978e+00
144	IHT000017	104.2706	108.3722	106.5744	1.0109e+00	4.2362e+00
145	IHT000018	107.0087	109.9384	108.2045	6.4733e-01	4.2404e+00
146	IHT000019	107.6209	109.5741	108.4700	4.4315e-01	4.2411e+00
147	IHT000020	105.7767	107.5346	106.7813	4.2380e-01	4.2368e+00
148	IHT000021	-2.5954	-0.2517	-1.6029	5.5363e-01	4.1000e+00
149	IHT000022	92.8223	94.3848	93.5916	3.8942e-01	4.2055e+00
150	IHT000023	105.3523	107.1101	106.1336	4.2192e-01	4.2351e+00
151	IHT000024	70.6918	72.4497	71.2938	3.7998e-01	4.1615e+00
152	IHT000025	102.6630	104.4208	103.4323	3.8532e-01	4.2285e+00
153	IHT000026	105.2810	107.0388	105.9067	3.8027e-01	4.2346e+00
154	IHT000027	89.8625	91.6204	90.8869	3.9373e-01	4.1995e+00
155	IHT000028	90.7940	93.1378	91.8742	5.7096e-01	4.2017e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8068	107.9552	106.8113	5.3932e-01	4.2368e+00
157	IHT000030	108.1167	110.6558	109.3643	5.4928e-01	4.2434e+00
158	IHT000031	106.1974	108.5412	107.3095	5.2922e-01	4.2381e+00
159	IHT000032	107.0425	109.5816	108.2024	5.7555e-01	4.2404e+00
160	IHT000033	107.0237	109.5628	108.1518	5.9837e-01	4.2402e+00
161	IHT000034	94.1293	96.0825	94.9106	4.9475e-01	4.2084e+00
162	IHT000035	123.9633	125.9165	124.8323	5.2144e-01	4.2858e+00
163	IHT000036	92.8110	94.5688	93.5723	4.5674e-01	4.2054e+00

Velocity 1 = 0.005700 (ft/sec)
 Velocity 2 = 0.005500 (ft/sec)
 Pressure Drop = 0.012100 (psi)
 Tsat in = 0.039093 (deg F) Tsat out = 0.049194 (deg F)
 Phi inner = 0.227905 (kBtu/hr-ft2) Phi outer = 0.134300 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0886	0.1179
1	TRF000002	0.0560	0.0742
2	TFM000001	0.0141	0.0161
3	TIN000001	0.0888	0.1016
4	TRV000001	0.8284	0.9405
5	TSR000001	3.2115	2.0882
6	EMPTY	0.0267	0.0696
7	TAO050136	0.4550	0.2468
8	TAO070136	0.3082	0.1579
9	TAO080136	0.1741	0.0904
10	TAO090136	3.4191	1.9357
11	TAO100136	3.8940	1.8295
12	TAO105136	2.0985	0.9516
13	EMPTY	0.0000	0.0000
14	TAO115136	2.1347	0.9302
15	EMPTY	1.0453	2.8967
16	TAO125136	0.4710	0.2001
17	EMPTY	0.0180	0.0397
18	EMPTY	0.0164	0.0395
19	TAO130048	0.6682	0.3068
20	TAO120224	1.4657	0.6471
21	EMPTY	0.0168	0.0430
22	TAO120312	1.5175	0.6558
23	TAO130312	0.5967	0.2694
24	EMPTY	0.0201	0.0510
25	TRT070000	1.1034	0.5519
26	TRT100000	0.8423	0.3793
27	TRT120000	1.0744	0.4713
28	TRT125000	0.8602	0.3735
29	EMPTY	0.0519	0.1296
30	EMPTY	0.0341	0.0860
31	TAF050136	0.1482	0.1176
32	TAF070136	0.0366	0.0264
33	TAF080136	0.0046	0.0032
34	TAF090136	0.1531	0.1019
35	TAF100136	0.2470	0.1552
36	TAF105136	0.1394	0.0846
37	TAF110136	1.0700	0.6248
38	TAF115136	0.1528	0.0873
39	TAF120136	0.2044	0.1139
40	TAF125136	0.2564	0.1397
41	TAF130136	0.2180	0.1164
42	TAF120048	0.5087	0.2823
43	TAF130048	0.4782	0.2582
44	TAF120224	0.3603	0.2013
45	TAF130224	0.2431	0.1308

#	Name	Abs Diff	%Diff
46	EMPTY	0.0131	0.0344
47	EMPTY	0.0338	0.0854
48	TAI130048	0.3551	0.1532
49	TAI130136	0.3211	0.1383
50	TAI130224	0.2905	0.1254
51	TAI130312	0.4765	0.2066
52	TRR130000	1.0914	0.8855
53	TSI000001	0.5199	1.2251
54	TSI000002	1.2895	1.5941
55	TSO000001	0.5055	1.2369
56	TSO000002	0.5125	0.9677
57	TAF020136	0.0758	0.0733
58	EMPTY	0.1823	0.4214
59	TAF130312	0.4751	0.2492
60	EMPTY	0.0151	0.5092
61	EMPTY	0.0166	0.5603
62	EMPTY	0.0169	0.5709
63	EMPTY	0.0170	0.5737
64	EMPTY	0.0071	0.5023
65	EMPTY	0.0069	0.4833
66	EMPTY	0.0082	0.5698
67	EMPTY	0.0081	0.5585
68	EMPTY	0.0085	0.5827
69	EMPTY	0.0058	0.3946
70	EMPTY	0.0057	0.3851
71	EMPTY	0.0082	0.5470
72	EMPTY	0.0085	0.5639
73	EMPTY	0.0055	0.3620
74	EMPTY	0.0053	0.3467
75	EMPTY	0.0081	0.5254
76	EMPTY	0.0072	0.4645
77	EMPTY	0.0055	0.3519
78	EMPTY	0.0061	0.3857
79	EMPTY	0.0065	0.4058
80	PAN020136	0.0025	0.0168
81	PAN050136	0.0452	0.1599
82	PAN070136	0.0100	0.0543
83	PAN080136	0.0125	0.1335
84	PAN090136	0.0150	0.1568
85	PAN100136	0.6126	6.5869
86	PAN105136	0.6456	15.3204
87	PAN110136	0.5296	10.3990
88	PAN115136	0.6704	17.1287
89	PAN120136	0.0355	0.7557
90	PAN125136	0.0137	0.2910
91	PAN130136	0.0047	0.0997
92	PAN120048	0.0024	0.0235
93	PAN130048	0.0006	0.0063
94	PAN120224	0.6071	7.0508
95	PAN130224	0.0091	0.0976
96	PAN120312	0.0044	0.0487
97	PAN130312	0.0021	0.0223
98	PAB000136	0.0355	0.0589
99	PAB100136	0.0554	0.0874
100	PAB125136	0.0466	0.0725

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0469	0.0779
102	PRV000001	0.0772	0.3912
103	PSR000001	0.0477	0.0740
104	PFM000001	0.0090	0.2258
105	PAN000136	0.3358	0.2861
106	PFM000002	0.0089	0.2207
107	EMPTY	0.0012	24.4898
108	EMPTY	1.0675	11.5718
109	EMPTY	0.0006	19.3548
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0021	63.6364
112	VPW000001	0.3646	0.3573
113	VPW000002	0.1226	0.1027
114	VPW000003	0.0990	0.0671
115	VPW000004	0.1755	0.1669
116	VPW000005	0.1224	0.0875
117	VPW000006	0.0750	0.0513
118	IPW000001	2.7286	0.4960
119	IPW000002	0.2628	0.0202
120	IPW000003	2.0336	0.1532
121	IPW000004	0.8833	0.2325
122	IPW000005	0.5680	0.2234
123	IPW000006	0.5455	0.2039
124	EMPTY	0.0015	6.7873
125	EMPTY	0.0012	7.6923
126	EMPTY	0.0009	4.9180
127	EMPTY	0.0008	4.3243
128	IHT000001	0.0656	0.0496
129	IHT000002	0.1012	0.0769
130	IHT000003	0.0909	0.0697
131	IHT000004	0.1200	0.0905
132	IHT000005	0.1145	0.0875
133	IHT000006	0.0761	0.0601
134	IHT000007	0.0581	0.0437
135	IHT000008	0.0566	0.0430
136	IHT000009	0.0263	0.0201
137	IHT000010	0.3251	0.2474
138	IHT000011	0.3973	0.3002
139	IHT000012	0.3438	0.2616
140	IHT000013	0.4187	0.4512
141	IHT000014	0.4660	0.3628
142	IHT000015	0.3816	0.3997
143	IHT000016	0.5057	0.5647
144	IHT000017	0.3368	0.3150
145	IHT000018	0.1723	0.1595
146	IHT000019	0.0064	0.0059
147	IHT000020	0.0658	0.0616
148	IHT000021	0.1872	13.2231
149	IHT000022	0.1287	0.1377
150	IHT000023	0.1055	0.0993
151	IHT000024	0.1090	0.1527
152	IHT000025	0.1487	0.1436
153	IHT000026	0.1750	0.1650
154	IHT000027	0.0517	0.0569
155	IHT000028	0.0490	0.0534

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2220	0.2074
157	IHT000030	0.2407	0.2196
158	IHT000031	0.2668	0.2480
159	IHT000032	0.2776	0.2559
160	IHT000033	0.2977	0.2745
161	IHT000034	0.0586	0.0617
162	IHT000035	0.0959	0.0768
163	IHT000036	0.0786	0.0839

Velocity 1 = 4.0110 (ft/sec) (+/- 10.9065 %)
 Velocity 2 = 4.0238 (ft/sec) (+/- 5.0718 %)
 Pressure drop = -4.6311 (psi)
 Tsat in = 292.7743 (deg F) Tsat out = 297.6314 (deg F)
 Phi inner = 100.0668 (kBtu/hr-ft2) (+/- 1.5714 %)
 Phi outer = 101.0789 (kBtu/hr-ft2) (+/- 1.5499 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.0786	75.7160	75.3803	1.9714e-01	1.9000e+00
1	TRF000002	75.5070	75.9298	75.7057	1.3779e-01	1.9000e+00
2	TFM000001	87.2029	88.1466	87.6769	2.0554e-01	1.9002e+00
3	TIN000001	87.1639	87.8989	87.5291	1.8643e-01	1.9002e+00
4	TRV000001	87.6212	88.6682	88.0193	2.2876e-01	1.9002e+00
5	TSR000001	159.3925	162.4562	161.5391	6.6333e-01	1.9056e+00
6	EMPTY	37.9974	38.9168	38.4756	2.4499e-01	1.9010e+00
7	TAO050136	203.8109	205.4398	204.6772	3.1989e-01	1.9122e+00
8	TAO070136	219.4735	220.6196	220.0046	2.7313e-01	1.9151e+00
9	TAO080136	220.7317	221.5849	221.1369	1.9063e-01	1.9153e+00
10	TAO090136	187.4737	188.3488	187.8977	1.8391e-01	1.9093e+00
11	TAO100136	239.0263	239.8718	239.4772	1.8413e-01	1.9193e+00
12	TAO105136	244.8643	246.0823	245.5092	2.9962e-01	1.9206e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	259.2285	260.3467	259.7134	2.3204e-01	1.9241e+00
15	EMPTY	32.0000	42.8139	37.7796	3.4739e+00	1.9010e+00
16	TAO125136	269.5988	270.5180	270.0551	2.0604e-01	1.9268e+00
17	EMPTY	44.8706	45.5552	45.2175	2.1741e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5182	1.0962e-01	1.9012e+00
19	TAO130048	248.3673	249.1136	248.7252	1.5708e-01	1.9214e+00
20	TAO120224	256.6752	257.4199	257.0216	1.9542e-01	1.9234e+00
21	EMPTY	39.1464	39.6057	39.2567	1.2483e-01	1.9010e+00
22	TAO120312	262.3490	263.5560	262.8951	2.9576e-01	1.9249e+00
23	TAO130312	252.0162	253.0410	252.3333	2.0102e-01	1.9223e+00
24	EMPTY	39.1464	39.8352	39.5001	1.4821e-01	1.9011e+00
25	TRT070000	219.0570	219.8230	219.4895	2.0930e-01	1.9150e+00
26	TRT100000	251.6444	252.4837	252.1404	2.1010e-01	1.9222e+00
27	TRT120000	259.6511	260.4868	259.9560	2.0979e-01	1.9242e+00
28	TRT125000	263.4042	264.2348	263.7360	1.8382e-01	1.9251e+00
29	EMPTY	39.8352	40.2940	40.0280	9.6797e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.5919	1.8786e-01	1.9011e+00
31	TAF050136	136.1160	137.8270	137.0340	3.4053e-01	1.9030e+00
32	TAF070136	152.5093	154.4909	153.4681	4.5371e-01	1.9047e+00
33	TAF080136	160.3616	162.2326	161.1416	3.8731e-01	1.9056e+00
34	TAF090136	168.5975	170.1730	169.2197	3.2408e-01	1.9066e+00
35	TAF100136	179.3775	181.1404	180.1964	3.6476e-01	1.9082e+00
36	TAF105136	186.5851	187.7462	187.1537	3.2047e-01	1.9092e+00
37	TAF110136	194.7224	196.0725	195.5706	3.0025e-01	1.9106e+00
38	TAF115136	200.1640	202.3752	201.1716	4.2049e-01	1.9116e+00
39	TAF120136	206.4602	207.5136	206.9468	2.4737e-01	1.9126e+00
40	TAF125136	211.4076	212.6450	211.9824	3.2026e-01	1.9135e+00
41	TAF130136	214.9618	216.1054	215.4501	2.3159e-01	1.9142e+00
42	TAF120048	204.8551	206.7895	205.7483	3.9728e-01	1.9124e+00
43	TAF130048	211.1524	212.8728	212.0361	4.2216e-01	1.9135e+00
44	TAF120224	204.0769	205.3255	204.8528	3.0416e-01	1.9122e+00
45	TAF130224	212.4676	214.1966	213.4821	3.9893e-01	1.9138e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9376	1.4551e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.5414	1.0413e-01	1.9011e+00
48	TAI130048	264.8189	265.5596	265.2154	1.5771e-01	1.9255e+00
49	TAI130136	266.6389	267.3775	267.0116	1.5833e-01	1.9260e+00
50	TAI130224	265.1634	265.9053	265.5272	1.9085e-01	1.9256e+00
51	TAI130312	263.5371	264.1863	263.7969	1.5559e-01	1.9251e+00
52	TRR130000	127.0516	130.2890	128.5984	9.6228e-01	1.9023e+00
53	TSI000001	41.9416	42.8116	42.2721	1.7977e-01	1.9005e+00
54	TSI000002	78.2387	80.6616	79.6379	6.0046e-01	1.9001e+00
55	TSO000001	39.9580	40.8337	40.3824	2.3972e-01	1.9006e+00
56	TSO000002	54.1801	54.9350	54.6198	1.8462e-01	1.9002e+00
57	TAF020136	106.8082	108.7799	108.0039	4.4642e-01	1.9010e+00
58	EMPTY	42.8139	43.5000	43.1615	2.5824e-01	1.9013e+00
59	TAF130312	217.8275	219.3497	218.3835	3.3080e-01	1.9148e+00
60	EMPTY	3.6523	3.6670	3.6604	3.5030e-03	0.0000e+00
61	EMPTY	3.6475	3.6572	3.6516	2.4878e-03	0.0000e+00
62	EMPTY	3.6377	3.6475	3.6446	2.8058e-03	0.0000e+00
63	EMPTY	3.6377	3.6475	3.6436	2.7902e-03	0.0000e+00
64	EMPTY	1.7090	1.7139	1.7136	1.1714e-03	0.0000e+00
65	EMPTY	1.7236	1.7285	1.7272	2.1635e-03	0.0000e+00
66	EMPTY	1.7334	1.7383	1.7354	2.4344e-03	0.0000e+00
67	EMPTY	1.7432	1.7529	1.7461	2.6100e-03	0.0000e+00
68	EMPTY	1.7480	1.7529	1.7523	1.6028e-03	0.0000e+00
69	EMPTY	1.7578	1.7676	1.7627	9.8648e-04	0.0000e+00
70	EMPTY	1.7676	1.7725	1.7721	1.3381e-03	0.0000e+00
71	EMPTY	1.7871	1.7920	1.7872	6.9053e-04	0.0000e+00
72	EMPTY	1.7920	1.7969	1.7945	2.4642e-03	0.0000e+00
73	EMPTY	1.8018	1.8066	1.8064	9.6655e-04	0.0000e+00
74	EMPTY	1.8115	1.8164	1.8133	2.3675e-03	0.0000e+00
75	EMPTY	1.8213	1.8262	1.8238	2.4642e-03	0.0000e+00
76	EMPTY	1.8311	1.8311	1.8311	0.0000e+00	0.0000e+00
77	EMPTY	1.8408	1.8457	1.8445	2.1065e-03	0.0000e+00
78	EMPTY	1.8604	1.8652	1.8604	6.9053e-04	0.0000e+00
79	EMPTY	1.8750	1.8799	1.8788	2.0432e-03	0.0000e+00
80	PAN020136	-16.5850	-16.1272	-16.3774	9.9940e-02	8.7096e-01
81	PAN050136	-31.3900	-30.9322	-31.0970	1.2269e-01	1.6818e+00
82	PAN070136	-20.9027	-20.5975	-20.7562	9.4816e-02	8.7155e-01
83	PAN080136	-9.8946	-9.5894	-9.7634	7.7130e-02	8.7034e-01
84	PAN090136	-10.5313	-10.3024	-10.4367	5.8815e-02	8.7039e-01
85	PAN100136	-10.7162	-10.1821	-10.5026	1.2710e-01	8.7040e-01
86	PAN105136	-5.1783	-4.6443	-4.8594	1.1503e-01	8.7008e-01
87	PAN110136	-4.9509	-4.6457	-4.7968	7.1454e-02	8.7008e-01
88	PAN115136	-7.3776	-3.6392	-6.5491	1.1150e+00	8.7015e-01
89	PAN120136	-7.0491	-4.4551	-5.6697	7.2899e-01	8.7012e-01
90	PAN125136	-6.0983	-4.2672	-5.3445	4.2033e-01	8.7010e-01
91	PAN130136	-3.0363	-1.3579	-2.1452	3.9492e-01	8.7002e-01
92	PAN120048	-12.0132	-11.5555	-11.7371	9.6123e-02	8.7049e-01
93	PAN130048	-9.5131	-8.9791	-9.2095	1.2185e-01	8.7030e-01
94	PAN120224	-12.7394	-11.8239	-12.2832	2.2416e-01	8.7054e-01
95	PAN130224	-8.3438	-7.4282	-7.9577	2.1821e-01	8.7023e-01
96	PAN120312	-9.7390	-9.5101	-9.6383	6.2497e-02	8.7033e-01
97	PAN130312	-10.3611	-9.8271	-10.0773	1.1119e-01	8.7036e-01
98	PAB000136	60.0447	60.2736	60.1500	6.0113e-02	5.9918e-01
99	PAB100136	63.4762	63.6593	63.5586	4.2381e-02	6.0137e-01
100	PAB125136	64.5414	64.7703	64.6577	4.9120e-02	6.0210e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.7610	60.1272	59.9612	8.4573e-02	7.6483e-01
102	PRV000001	19.6116	19.8557	19.7751	6.3406e-02	7.5163e-01
103	PSR000001	64.7001	64.8221	64.7244	4.9324e-02	7.6726e-01
104	PFM000001	2.2641	2.5388	2.4179	7.4996e-02	5.0004e-01
105	PAN000136	-129.6961	-126.4918	-128.2130	6.6407e-01	4.9304e+00
106	PFM000002	2.3908	2.4747	2.4337	2.1749e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	0.0002	4.0626e-03	0.0000e+00
108	EMPTY	-10.0000	-3.8574	-7.4200	2.4556e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0009	1.8950e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	102.3287	102.9147	102.7037	1.4680e-01	1.0178e+00
113	VPW000002	119.3735	119.7641	119.6313	1.2750e-01	1.0823e+00
114	VPW000003	147.3032	147.8891	147.6431	1.1712e-01	1.2004e+00
115	VPW000004	105.3598	105.7505	105.5669	1.3901e-01	1.0282e+00
116	VPW000005	139.8738	140.4597	140.0692	1.3669e-01	1.1672e+00
117	VPW000006	146.2816	146.6722	146.4496	1.1168e-01	1.1951e+00
118	IPW000001	553.0388	560.8481	557.2166	2.0116e+00	9.2189e+00
119	IPW000002	1284.3107	1296.0183	1292.3109	2.9036e+00	1.3032e+01
120	IPW000003	1311.3748	1319.1748	1315.3922	1.6438e+00	1.3176e+01
121	IPW000004	383.5167	385.9581	384.6984	4.8418e-01	3.6382e+00
122	IPW000005	253.8057	255.2704	254.4111	3.4957e-01	2.8354e+00
123	IPW000006	265.7283	267.6815	266.8222	3.4961e-01	2.9057e+00
124	EMPTY	-0.0293	-0.0098	-0.0192	4.3461e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0131	2.8659e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0141	3.5072e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.1195e-03	0.0000e+00
128	IHT000001	130.4913	133.2257	132.0225	5.3432e-01	4.3073e+00
129	IHT000002	130.0594	132.4031	131.4071	5.1486e-01	4.3054e+00
130	IHT000003	129.1504	131.2988	130.2324	4.8200e-01	4.3019e+00
131	IHT000004	131.4941	133.4473	132.4941	4.6293e-01	4.3088e+00
132	IHT000005	129.6462	131.5993	130.6735	4.6657e-01	4.3032e+00
133	IHT000006	125.3869	127.5353	126.4025	4.7351e-01	4.2904e+00
134	IHT000007	131.5880	133.9318	132.7521	5.2342e-01	4.3096e+00
135	IHT000008	130.2584	132.7975	131.5513	4.9109e-01	4.3059e+00
136	IHT000009	129.7063	132.4407	131.1164	5.4289e-01	4.3045e+00
137	IHT000010	130.5138	132.6623	131.3185	5.3908e-01	4.3052e+00
138	IHT000011	131.4153	133.5637	132.3957	4.8083e-01	4.3085e+00
139	IHT000012	130.4124	132.5609	131.4281	4.9126e-01	4.3055e+00
140	IHT000013	92.0072	93.9603	92.9330	5.0349e-01	4.2040e+00
141	IHT000014	127.2762	129.4246	128.4793	5.0741e-01	4.2966e+00
142	IHT000015	94.7341	96.6872	95.5856	4.6314e-01	4.2099e+00
143	IHT000016	88.9987	91.5377	89.9556	4.8688e-01	4.1975e+00
144	IHT000017	105.6378	107.7862	106.8370	4.8810e-01	4.2369e+00
145	IHT000018	107.2040	108.9618	108.0166	4.6078e-01	4.2399e+00
146	IHT000019	107.0350	109.5741	108.3475	5.4966e-01	4.2407e+00
147	IHT000020	105.5814	107.7299	106.6831	5.4069e-01	4.2365e+00
148	IHT000021	-3.1814	-0.0564	-1.5329	6.7677e-01	4.1000e+00
149	IHT000022	92.4316	94.9707	93.6387	5.6039e-01	4.2056e+00
150	IHT000023	104.9617	107.5008	106.0945	5.6772e-01	4.2350e+00
151	IHT000024	70.1059	72.6450	71.2856	5.2044e-01	4.1615e+00
152	IHT000025	102.2724	104.8114	103.4443	5.3670e-01	4.2285e+00
153	IHT000026	104.6950	107.2341	105.9255	5.5978e-01	4.2346e+00
154	IHT000027	89.8625	92.4016	91.0188	5.7023e-01	4.1998e+00
155	IHT000028	90.7940	93.1378	91.9112	6.3016e-01	4.2018e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6115	108.1505	106.8576	6.1875e-01	4.2370e+00
157	IHT000030	108.1167	110.6558	109.4526	5.6684e-01	4.2436e+00
158	IHT000031	106.1974	108.7365	107.4005	5.6409e-01	4.2383e+00
159	IHT000032	107.0425	109.5816	108.2808	5.5046e-01	4.2406e+00
160	IHT000033	107.0237	109.3675	108.2113	5.5220e-01	4.2404e+00
161	IHT000034	93.9340	96.2778	94.9419	4.4531e-01	4.2085e+00
162	IHT000035	123.7680	125.9165	124.7251	4.4512e-01	4.2855e+00
163	IHT000036	92.6157	94.9594	93.5376	4.2138e-01	4.2053e+00

Velocity 1 = 3.9627 (ft/sec) (+/- 11.1499 %)
 Velocity 2 = 4.0165 (ft/sec) (+/- 5.0811 %)
 Pressure drop = -4.6262 (psi)
 Tsat in = 292.8601 (deg F) Tsat out = 297.7438 (deg F)
 Phi inner = 101.1534 (kBtu/hr-ft2) (+/- 1.5688 %)
 Phi outer = 101.5708 (kBtu/hr-ft2) (+/- 1.5486 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.2911	75.7160	75.5513	1.6945e-01	1.9000e+00
1	TRF000002	75.5070	76.1411	75.8305	1.4377e-01	1.9000e+00
2	TFM000001	85.8419	86.6808	86.2378	2.1004e-01	1.9002e+00
3	TIN000001	85.9030	86.5335	86.2140	1.4382e-01	1.9002e+00
4	TRV000001	86.9946	87.7280	87.3176	1.7737e-01	1.9002e+00
5	TSR000001	158.9992	163.4423	160.9462	1.5041e+00	1.9056e+00
6	EMPTY	37.9974	38.6870	38.4525	2.2249e-01	1.9010e+00
7	TAO050136	203.1403	204.0043	203.5246	2.2431e-01	1.9120e+00
8	TAO070136	216.4074	217.4607	216.8646	2.1609e-01	1.9145e+00
9	TAO080136	216.9427	217.6084	217.2535	1.5969e-01	1.9146e+00
10	TAO090136	189.9973	190.8705	190.4884	2.0132e-01	1.9098e+00
11	TAO100136	238.3684	239.2147	238.7486	1.8700e-01	1.9191e+00
12	TAO105136	243.5525	244.5836	244.1400	2.1968e-01	1.9203e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	258.7618	259.6014	259.1384	1.9861e-01	1.9239e+00
15	EMPTY	32.4627	42.5851	38.1187	3.2311e+00	1.9010e+00
16	TAO125136	268.7717	269.9682	269.2867	2.2763e-01	1.9266e+00
17	EMPTY	44.8706	45.5552	45.2991	1.8416e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5431	1.2425e-01	1.9012e+00
19	TAO130048	247.8086	248.3691	248.1195	1.5988e-01	1.9213e+00
20	TAO120224	256.2101	257.0479	256.6775	2.2111e-01	1.9233e+00
21	EMPTY	38.9168	39.6057	39.2683	1.4141e-01	1.9010e+00
22	TAO120312	261.6057	262.6275	262.1783	2.3251e-01	1.9247e+00
23	TAO130312	251.1791	251.9248	251.4970	1.7533e-01	1.9221e+00
24	EMPTY	39.1464	39.8352	39.5494	1.8467e-01	1.9011e+00
25	TRT070000	218.9606	220.0134	219.5386	2.5404e-01	1.9150e+00
26	TRT100000	250.4335	251.2731	250.8753	2.1351e-01	1.9219e+00
27	TRT120000	258.3517	259.2806	258.8161	1.9982e-01	1.9239e+00
28	TRT125000	262.1147	263.1301	262.6161	2.2219e-01	1.9248e+00
29	EMPTY	39.8352	40.2940	40.0272	1.0830e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6759	2.3051e-01	1.9011e+00
31	TAF050136	134.9088	136.9227	135.8732	4.8497e-01	1.9029e+00
32	TAF070136	150.9214	153.6999	152.1190	4.7656e-01	1.9045e+00
33	TAF080136	158.6900	160.3627	159.5864	3.6042e-01	1.9054e+00
34	TAF090136	166.9216	168.9918	168.0928	3.7782e-01	1.9065e+00
35	TAF100136	178.2985	179.8670	179.0690	3.2941e-01	1.9080e+00
36	TAF105136	185.5256	186.9751	186.1688	3.4732e-01	1.9091e+00
37	TAF110136	193.8564	195.4941	194.7695	3.2312e-01	1.9105e+00
38	TAF115136	199.4899	200.7417	200.1661	3.1522e-01	1.9114e+00
39	TAF120136	205.4110	206.5587	205.9477	2.5891e-01	1.9124e+00
40	TAF125136	210.3624	211.6006	211.0197	3.0546e-01	1.9134e+00
41	TAF130136	213.9143	214.7729	214.3856	1.9990e-01	1.9140e+00
42	TAF120048	203.7890	205.5309	204.7367	3.6003e-01	1.9122e+00
43	TAF130048	210.2911	211.9180	210.9867	3.7150e-01	1.9133e+00
44	TAF120224	203.6934	205.2296	204.3815	3.8915e-01	1.9121e+00
45	TAF130224	212.0823	213.5243	212.7651	3.7380e-01	1.9137e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9599	1.9550e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5963	1.0435e-01	1.9011e+00
48	TAI130048	263.8932	264.5414	264.2598	1.6805e-01	1.9253e+00
49	TAI130136	265.9016	266.5482	266.2242	1.7396e-01	1.9258e+00
50	TAI130224	264.3280	264.9775	264.6841	1.5424e-01	1.9254e+00
51	TAI130312	262.6094	263.1659	262.9124	1.3889e-01	1.9249e+00
52	TRR130000	132.5110	134.3245	133.4699	3.5825e-01	1.9027e+00
53	TSI000001	42.1588	43.0287	42.5785	2.0466e-01	1.9005e+00
54	TSI000002	78.6621	80.3462	79.5232	3.4020e-01	1.9001e+00
55	TSO000001	40.5052	41.2708	40.8802	2.0081e-01	1.9006e+00
56	TSO000002	54.5033	55.3654	54.9918	2.2877e-01	1.9002e+00
57	TAF020136	105.4542	107.5341	106.5937	4.5072e-01	1.9009e+00
58	EMPTY	42.5851	43.5000	43.1546	2.5621e-01	1.9013e+00
59	TAF130312	216.4008	218.1142	217.2342	4.0833e-01	1.9145e+00
60	EMPTY	3.6182	3.6377	3.6281	3.9817e-03	0.0000e+00
61	EMPTY	3.6133	3.6279	3.6200	3.2594e-03	0.0000e+00
62	EMPTY	3.6084	3.6182	3.6130	2.7128e-03	0.0000e+00
63	EMPTY	3.6084	3.6182	3.6120	2.7793e-03	0.0000e+00
64	EMPTY	1.6992	1.7041	1.7022	2.4037e-03	0.0000e+00
65	EMPTY	1.7139	1.7188	1.7144	1.4934e-03	0.0000e+00
66	EMPTY	1.7188	1.7236	1.7234	9.7615e-04	0.0000e+00
67	EMPTY	1.7334	1.7334	1.7334	0.0000e+00	0.0000e+00
68	EMPTY	1.7383	1.7432	1.7399	2.3135e-03	0.0000e+00
69	EMPTY	1.7480	1.7529	1.7515	2.2287e-03	0.0000e+00
70	EMPTY	1.7578	1.7627	1.7595	2.3483e-03	0.0000e+00
71	EMPTY	1.7725	1.7822	1.7770	1.8400e-03	0.0000e+00
72	EMPTY	1.7822	1.7871	1.7826	1.3508e-03	0.0000e+00
73	EMPTY	1.7920	1.7969	1.7954	2.2737e-03	0.0000e+00
74	EMPTY	1.7969	1.8066	1.8020	1.3951e-03	0.0000e+00
75	EMPTY	1.8115	1.8164	1.8118	1.1827e-03	0.0000e+00
76	EMPTY	1.8164	1.8262	1.8212	1.2165e-03	0.0000e+00
77	EMPTY	1.8262	1.8359	1.8330	2.6216e-03	0.0000e+00
78	EMPTY	1.8457	1.8506	1.8505	6.9754e-04	0.0000e+00
79	EMPTY	1.8652	1.8701	1.8672	2.4247e-03	0.0000e+00
80	PAN020136	-16.5850	-16.1272	-16.3857	1.0426e-01	8.7096e-01
81	PAN050136	-31.3900	-30.7796	-31.1035	1.3445e-01	1.6818e+00
82	PAN070136	-20.5212	-20.1398	-20.3780	9.0316e-02	8.7149e-01
83	PAN080136	-10.3524	-9.9709	-10.1500	9.1541e-02	8.7037e-01
84	PAN090136	-10.6076	-10.3787	-10.4752	6.3786e-02	8.7039e-01
85	PAN100136	-10.2584	-9.9533	-10.1261	7.9066e-02	8.7037e-01
86	PAN105136	-5.5598	-5.1021	-5.3932	9.3016e-02	8.7010e-01
87	PAN110136	-4.7983	-4.5694	-4.6893	5.6151e-02	8.7008e-01
88	PAN115136	-7.4539	-4.2496	-6.9276	7.6915e-01	8.7017e-01
89	PAN120136	-7.0491	-4.8365	-5.6135	5.4030e-01	8.7011e-01
90	PAN125136	-6.0983	-4.8013	-5.6857	3.2923e-01	8.7012e-01
91	PAN130136	-2.5023	-0.7475	-1.6397	3.7609e-01	8.7001e-01
92	PAN120048	-11.8607	-11.4792	-11.6800	9.9346e-02	8.7049e-01
93	PAN130048	-9.5131	-8.9791	-9.2718	1.1375e-01	8.7031e-01
94	PAN120224	-12.6631	-12.0528	-12.3377	1.7466e-01	8.7055e-01
95	PAN130224	-8.1912	-7.5808	-7.8922	1.5325e-01	8.7022e-01
96	PAN120312	-9.8916	-9.5864	-9.7375	7.8626e-02	8.7034e-01
97	PAN130312	-10.2086	-10.0560	-10.1509	4.5486e-02	8.7037e-01
98	PAB000136	60.0447	60.4109	60.2278	8.4097e-02	5.9923e-01
99	PAB100136	63.5220	63.7509	63.6248	6.7076e-02	6.0142e-01
100	PAB125136	64.6330	64.9076	64.7647	5.9563e-02	6.0218e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.8831	60.2493	60.0799	9.2619e-02	7.6489e-01
102	PRV0000001	19.7336	19.8557	19.8233	5.4452e-02	7.5164e-01
103	PSR0000001	64.7001	64.9442	64.8345	5.1338e-02	7.6731e-01
104	PFM0000001	2.2641	2.4472	2.3594	7.2280e-02	5.0003e-01
105	PAN000136	-129.2384	-126.4918	-128.0799	6.2753e-01	4.9304e+00
106	PFM0000002	2.4076	2.4579	2.4254	1.4291e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0018	3.9485e-03	0.0000e+00
108	EMPTY	-10.0000	-4.2773	-9.6506	1.1479e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0000	2.6370e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.7615e-04	0.0000e+00
112	VPW0000001	102.3287	103.3053	102.6675	1.9026e-01	1.0176e+00
113	VPW0000002	119.1782	119.9594	119.5888	1.5566e-01	1.0821e+00
114	VPW0000003	147.4985	148.0844	147.8692	1.5566e-01	1.2014e+00
115	VPW0000004	105.3598	105.9458	105.5432	1.4044e-01	1.0282e+00
116	VPW0000005	139.8738	140.4597	140.2525	1.5649e-01	1.1680e+00
117	VPW0000006	146.4769	147.0628	146.6722	1.2607e-01	1.1961e+00
118	IPW0000001	547.1817	553.0388	549.7316	1.6530e+00	9.1908e+00
119	IPW0000002	1303.8234	1319.4335	1309.9158	4.2271e+00	1.3141e+01
120	IPW0000003	1325.0248	1332.8248	1328.2883	2.4011e+00	1.3256e+01
121	IPW0000004	383.5167	385.9581	384.3837	5.6615e-01	3.6361e+00
122	IPW0000005	254.2939	256.2469	255.3801	4.1410e-01	2.8408e+00
123	IPW0000006	267.6815	270.1229	268.6581	4.7800e-01	2.9163e+00
124	EMPTY	-0.0293	-0.0146	-0.0228	4.0348e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0132	3.4819e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0190	4.1390e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0148	3.7239e-03	0.0000e+00
128	IHT0000001	130.6866	133.4210	131.9860	6.2091e-01	4.3072e+00
129	IHT0000002	130.2547	132.7937	131.4027	6.0019e-01	4.3054e+00
130	IHT0000003	129.1504	131.6894	130.2744	6.1445e-01	4.3020e+00
131	IHT0000004	131.2988	134.0332	132.5185	6.0664e-01	4.3088e+00
132	IHT0000005	129.4509	132.3806	130.7064	6.2403e-01	4.3033e+00
133	IHT0000006	125.1916	127.9259	126.4471	5.6943e-01	4.2906e+00
134	IHT0000007	131.5880	134.1271	132.7758	5.7889e-01	4.3096e+00
135	IHT0000008	130.2584	132.6021	131.5618	5.4429e-01	4.3059e+00
136	IHT0000009	129.9016	132.6360	131.1412	5.3422e-01	4.3046e+00
137	IHT0000010	130.3185	133.0529	131.4824	5.9530e-01	4.3057e+00
138	IHT0000011	131.4153	133.7590	132.5392	5.2063e-01	4.3089e+00
139	IHT0000012	130.6077	132.7562	131.5883	5.3857e-01	4.3060e+00
140	IHT0000013	91.8119	93.9603	92.9320	5.3157e-01	4.2040e+00
141	IHT0000014	127.6668	129.6199	128.6035	4.6831e-01	4.2970e+00
142	IHT0000015	94.7341	96.4919	95.5393	4.8112e-01	4.2098e+00
143	IHT0000016	88.9987	90.7565	89.8795	4.9815e-01	4.1974e+00
144	IHT0000017	104.0753	107.3956	105.5899	8.1854e-01	4.2338e+00
145	IHT0000018	106.8134	108.9618	107.7940	5.0664e-01	4.2393e+00
146	IHT0000019	107.2303	109.1834	108.2109	4.7086e-01	4.2404e+00
147	IHT0000020	105.3861	107.7299	106.5142	4.5328e-01	4.2361e+00
148	IHT0000021	-2.7907	-0.4470	-1.7464	5.3570e-01	4.1000e+00
149	IHT0000022	92.4316	94.7754	93.4919	4.4752e-01	4.2052e+00
150	IHT0000023	105.1570	107.1101	105.9981	4.5141e-01	4.2348e+00
151	IHT0000024	70.4965	72.2543	71.2061	4.3799e-01	4.1614e+00
152	IHT0000025	102.6630	104.6161	103.3845	4.7709e-01	4.2283e+00
153	IHT0000026	104.8903	107.0388	105.8788	4.7743e-01	4.2345e+00
154	IHT0000027	89.8625	92.4016	90.9826	4.8136e-01	4.1997e+00
155	IHT0000028	91.1846	93.3331	91.9898	5.0529e-01	4.2019e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0021	108.3458	106.8870	5.3355e-01	4.2370e+00
157	IHT000030	108.5073	110.4605	109.4799	5.2209e-01	4.2437e+00
158	IHT000031	106.5881	108.3459	107.4729	4.9971e-01	4.2385e+00
159	IHT000032	107.2378	109.1910	108.2941	5.0259e-01	4.2406e+00
160	IHT000033	107.2190	109.1722	108.2355	5.1978e-01	4.2405e+00
161	IHT000034	94.1293	95.8872	95.0262	4.1608e-01	4.2087e+00
162	IHT000035	124.1587	125.9165	124.9718	4.3371e-01	4.2862e+00
163	IHT000036	92.8110	94.3735	93.6919	4.0091e-01	4.2057e+00

Velocity 1 = 0.048300 (ft/sec)
 Velocity 2 = 0.007300 (ft/sec)
 Pressure Drop = 0.004900 (psi)
 Tsat in = 0.085815 (deg F) Tsat out = 0.112396 (deg F)
 Phi inner = 1.086594 (kBtu/hr-ft2) Phi outer = 0.491898 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1710	0.2268
1	TRF000002	0.1248	0.1648
2	TFM000001	1.4391	1.6414
3	TIN000001	1.3151	1.5025
4	TRV000001	0.7017	0.7972
5	TSR000001	0.5929	0.3670
6	EMPTY	0.0231	0.0600
7	TAO050136	1.1526	0.5631
8	TAO070136	3.1400	1.4272
9	TAO080136	3.8834	1.7561
10	TAO090136	2.5907	1.3788
11	TAO100136	0.7286	0.3042
12	TAO105136	1.3692	0.5577
13	EMPTY	0.0000	0.0000
14	TAO115136	0.5750	0.2214
15	EMPTY	0.3391	0.8976
16	TAO125136	0.7684	0.2845
17	EMPTY	0.0816	0.1805
18	EMPTY	0.0249	0.0600
19	TAO130048	0.6057	0.2435
20	TAO120224	0.3441	0.1339
21	EMPTY	0.0116	0.0296
22	TAO120312	0.7168	0.2727
23	TAO130312	0.8363	0.3314
24	EMPTY	0.0493	0.1248
25	TRT070000	0.0491	0.0224
26	TRT100000	1.2651	0.5017
27	TRT120000	1.1399	0.4385
28	TRT125000	1.1199	0.4246
29	EMPTY	0.0008	0.0020
30	EMPTY	0.0840	0.2122
31	TAF050136	1.1608	0.8471
32	TAF070136	1.3491	0.8791
33	TAF080136	1.5552	0.9651
34	TAF090136	1.1269	0.6659
35	TAF100136	1.1274	0.6256
36	TAF105136	0.9849	0.5263
37	TAF110136	0.8011	0.4096
38	TAF115136	1.0055	0.4998
39	TAF120136	0.9991	0.4828
40	TAF125136	0.9627	0.4541
41	TAF130136	1.0645	0.4941
42	TAF120048	1.0116	0.4917
43	TAF130048	1.0494	0.4949
44	TAF120224	0.4713	0.2301
45	TAF130224	0.7170	0.3359

#	Name	Abs Diff	%Diff
46	EMPTY	0.0223	0.0588
47	EMPTY	0.0549	0.1388
48	TAI130048	0.9556	0.3603
49	TAI130136	0.7874	0.2949
50	TAI130224	0.8431	0.3175
51	TAI130312	0.8845	0.3353
52	TRR130000	4.8715	3.7881
53	TSI000001	0.3064	0.7248
54	TSI000002	0.1147	0.1440
55	TSO000001	0.4978	1.2327
56	TSO000002	0.3720	0.6811
57	TAF020136	1.4102	1.3057
58	EMPTY	0.0069	0.0160
59	TAF130312	1.1493	0.5263
60	EMPTY	0.0323	0.8824
61	EMPTY	0.0316	0.8654
62	EMPTY	0.0316	0.8670
63	EMPTY	0.0316	0.8673
64	EMPTY	0.0114	0.6653
65	EMPTY	0.0128	0.7411
66	EMPTY	0.0120	0.6915
67	EMPTY	0.0127	0.7273
68	EMPTY	0.0124	0.7076
69	EMPTY	0.0112	0.6354
70	EMPTY	0.0126	0.7110
71	EMPTY	0.0102	0.5707
72	EMPTY	0.0119	0.6631
73	EMPTY	0.0110	0.6089
74	EMPTY	0.0113	0.6232
75	EMPTY	0.0120	0.6580
76	EMPTY	0.0099	0.5407
77	EMPTY	0.0115	0.6235
78	EMPTY	0.0099	0.5321
79	EMPTY	0.0116	0.6174
80	PAN020136	0.0083	0.0507
81	PAN050136	0.0065	0.0209
82	PAN070136	0.3782	1.8221
83	PAN080136	0.3866	3.9597
84	PAN090136	0.0385	0.3689
85	PAN100136	0.3765	3.5848
86	PAN105136	0.5338	10.9849
87	PAN110136	0.1075	2.2411
88	PAN115136	0.3785	5.7794
89	PAN120136	0.0562	0.9912
90	PAN125136	0.3412	6.3841
91	PAN130136	0.5055	23.5642
92	PAN120048	0.0571	0.4865
93	PAN130048	0.0623	0.6765
94	PAN120224	0.0545	0.4437
95	PAN130224	0.0655	0.8231
96	PAN120312	0.0992	1.0292
97	PAN130312	0.0736	0.7304
98	PAB000136	0.0778	0.1293
99	PAB100136	0.0662	0.1042
100	PAB125136	0.1070	0.1655

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1187	0.1980
102	PRV000001	0.0482	0.2437
103	PSR000001	0.1101	0.1701
104	PFM000001	0.0585	2.4195
105	PAN000136	0.1331	0.1038
106	PFM000002	0.0083	0.3410
107	EMPTY	0.0020	1000.0000
108	EMPTY	2.2306	30.0620
109	EMPTY	0.0009	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.0362	0.0352
113	VPW000002	0.0425	0.0355
114	VPW000003	0.2261	0.1531
115	VPW000004	0.0237	0.0225
116	VPW000005	0.1833	0.1309
117	VPW000006	0.2226	0.1520
118	IPW000001	7.4850	1.3433
119	IPW000002	17.6049	1.3623
120	IPW000003	12.8961	0.9804
121	IPW000004	0.3147	0.0818
122	IPW000005	0.9690	0.3809
123	IPW000006	1.8359	0.6881
124	EMPTY	0.0036	18.7500
125	EMPTY	0.0001	0.7634
126	EMPTY	0.0049	34.7518
127	EMPTY	0.0018	10.8434
128	IHT000001	0.0365	0.0277
129	IHT000002	0.0044	0.0034
130	IHT000003	0.0420	0.0322
131	IHT000004	0.0244	0.0184
132	IHT000005	0.0329	0.0252
133	IHT000006	0.0446	0.0353
134	IHT000007	0.0237	0.0179
135	IHT000008	0.0105	0.0080
136	IHT000009	0.0248	0.0189
137	IHT000010	0.1639	0.1248
138	IHT000011	0.1435	0.1084
139	IHT000012	0.1602	0.1219
140	IHT000013	0.0010	0.0011
141	IHT000014	0.1242	0.0967
142	IHT000015	0.0463	0.0484
143	IHT000016	0.0761	0.0846
144	IHT000017	1.2471	1.1673
145	IHT000018	0.2226	0.2061
146	IHT000019	0.1366	0.1261
147	IHT000020	0.1689	0.1583
148	IHT000021	0.2135	13.9279
149	IHT000022	0.1468	0.1568
150	IHT000023	0.0964	0.0909
151	IHT000024	0.0795	0.1115
152	IHT000025	0.0598	0.0578
153	IHT000026	0.0467	0.0441
154	IHT000027	0.0362	0.0398
155	IHT000028	0.0786	0.0855

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0294	0.0275
157	IHT000030	0.0273	0.0249
158	IHT000031	0.0724	0.0674
159	IHT000032	0.0133	0.0123
160	IHT000033	0.0242	0.0224
161	IHT000034	0.0843	0.0888
162	IHT000035	0.2467	0.1978
163	IHT000036	0.1543	0.1650

Velocity 1 = 3.4647 (ft/sec) (+/- 14.3783 %)
Velocity 2 = 3.5165 (ft/sec) (+/- 5.9824 %)
Pressure drop = -4.8268 (psi)
Tsat in = 292.6571 (deg F) Tsat out = 297.5909 (deg F)
Phi inner = 100.6774 (kBtu/hr-ft2) (+/- 1.5699 %)
Phi outer = 100.9949 (kBtu/hr-ft2) (+/- 1.5502 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.2911	75.9284	75.6651	1.6377e-01	1.9000e+00
1	TRF000002	75.7184	76.1411	75.9762	1.3015e-01	1.9000e+00
2	TFM000001	85.5274	86.2617	85.9325	1.6689e-01	1.9002e+00
3	TIN000001	85.5879	86.2180	85.9134	1.4436e-01	1.9002e+00
4	TRV000001	86.1581	86.9967	86.5501	2.2484e-01	1.9002e+00
5	TSR000001	156.2270	159.3956	157.7464	9.4611e-01	1.9052e+00
6	EMPTY	37.9974	38.6870	38.3790	2.4400e-01	1.9010e+00
7	TAO050136	216.9746	217.6413	217.3196	1.5481e-01	1.9146e+00
8	TAO070136	229.6772	230.5320	230.1881	1.9639e-01	1.9172e+00
9	TAO080136	230.4465	231.2012	230.8484	1.5784e-01	1.9174e+00
10	TAO090136	198.6015	199.4691	199.0509	2.2517e-01	1.9112e+00
11	TAO100136	255.1062	255.8508	255.5249	1.8053e-01	1.9230e+00
12	TAO105136	260.9029	262.2021	261.4841	2.6158e-01	1.9245e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	278.3388	279.3538	278.8576	2.4908e-01	1.9292e+00
15	EMPTY	31.5371	42.8139	38.4875	3.5375e+00	1.9010e+00
16	TAO125136	289.9764	291.1578	290.6946	2.3253e-01	1.9325e+00
17	EMPTY	45.0988	45.5552	45.2860	1.7668e-01	1.9014e+00
18	EMPTY	41.4403	42.1273	41.5777	1.4634e-01	1.9012e+00
19	TAO130048	266.7003	267.5291	267.1513	1.6679e-01	1.9260e+00
20	TAO120224	276.1028	276.9309	276.5024	1.9810e-01	1.9285e+00
21	EMPTY	39.1464	39.6057	39.4633	1.5995e-01	1.9010e+00
22	TAO120312	281.1034	282.3894	281.7411	2.6659e-01	1.9300e+00
23	TAO130312	270.1558	271.0767	270.5815	1.9776e-01	1.9269e+00
24	EMPTY	39.1464	39.8352	39.5414	2.1275e-01	1.9011e+00
25	TRT070000	226.9973	230.0479	227.9487	1.0173e+00	1.9167e+00
26	TRT100000	270.4479	271.5533	270.8812	2.4143e-01	1.9270e+00
27	TRT120000	278.9436	279.8619	279.4338	1.9244e-01	1.9293e+00
28	TRT125000	282.9987	283.7287	283.4491	1.6310e-01	1.9304e+00
29	EMPTY	39.8352	40.2940	40.0922	8.8429e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6653	2.2627e-01	1.9011e+00
31	TAF050136	141.9396	144.0413	142.9505	4.5225e-01	1.9036e+00
32	TAF070136	161.0109	163.0795	161.8874	5.4349e-01	1.9057e+00
33	TAF080136	168.9967	171.0496	170.0697	4.4709e-01	1.9067e+00
34	TAF090136	179.4891	180.9551	180.2418	3.7248e-01	1.9082e+00
35	TAF100136	193.2283	194.3924	193.7927	2.4459e-01	1.9103e+00
36	TAF105136	200.6012	202.1286	201.5086	3.5487e-01	1.9116e+00
37	TAF110136	209.0008	212.9057	210.8521	7.6572e-01	1.9133e+00
38	TAF115136	216.4307	218.3331	217.2284	5.5923e-01	1.9145e+00
39	TAF120136	222.7100	225.2604	224.4308	6.2142e-01	1.9160e+00
40	TAF125136	228.7025	232.4569	230.2866	8.4831e-01	1.9172e+00
41	TAF130136	233.8950	235.7757	234.7852	4.4196e-01	1.9182e+00
42	TAF120048	221.0287	224.3774	222.7041	7.7308e-01	1.9156e+00
43	TAF130048	229.7874	231.9597	230.8364	5.0642e-01	1.9173e+00
44	TAF120224	219.8317	224.1948	222.0168	8.6787e-01	1.9155e+00
45	TAF130224	231.1897	233.6562	232.0304	4.9396e-01	1.9176e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	38.0204	1.9295e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.7158	1.1583e-01	1.9011e+00
48	TAI130048	285.8956	286.8104	286.2669	1.8332e-01	1.9313e+00
49	TAI130136	288.3438	289.1642	288.7757	1.7530e-01	1.9320e+00
50	TAI130224	282.5219	283.7160	283.1850	2.9760e-01	1.9304e+00
51	TAI130312	283.9143	284.9230	284.6313	2.4542e-01	1.9308e+00
52	TRR130000	139.5537	141.7601	140.6107	6.2358e-01	1.9034e+00
53	TSI000001	42.3762	43.0294	42.7182	1.7299e-01	1.9005e+00
54	TSI000002	80.3450	82.3433	81.4668	4.4134e-01	1.9001e+00
55	TSO000001	40.2851	41.1606	40.7691	2.0022e-01	1.9006e+00
56	TSO000002	56.0115	56.9804	56.3324	2.0918e-01	1.9001e+00
57	TAF020136	108.3651	110.5418	109.4868	4.7396e-01	1.9011e+00
58	EMPTY	42.8139	43.7285	43.2027	2.7430e-01	1.9013e+00
59	TAF130312	235.4218	237.8660	236.6989	5.3180e-01	1.9186e+00
60	EMPTY	4.1064	4.1357	4.1235	8.0293e-03	0.0000e+00
61	EMPTY	4.0967	4.1211	4.1113	6.9053e-03	0.0000e+00
62	EMPTY	4.0918	4.1064	4.1010	4.9951e-03	0.0000e+00
63	EMPTY	4.0869	4.1016	4.0974	4.3011e-03	0.0000e+00
64	EMPTY	1.9141	1.9189	1.9171	2.3941e-03	0.0000e+00
65	EMPTY	1.9238	1.9336	1.9281	1.8821e-03	0.0000e+00
66	EMPTY	1.9336	1.9385	1.9357	2.4484e-03	0.0000e+00
67	EMPTY	1.9385	1.9482	1.9441	2.0598e-03	0.0000e+00
68	EMPTY	1.9482	1.9531	1.9489	1.7115e-03	0.0000e+00
69	EMPTY	1.9580	1.9629	1.9587	1.7115e-03	0.0000e+00
70	EMPTY	1.9629	1.9678	1.9676	9.6655e-04	0.0000e+00
71	EMPTY	1.9824	1.9873	1.9825	6.9053e-04	0.0000e+00
72	EMPTY	1.9873	1.9922	1.9874	6.9053e-04	0.0000e+00
73	EMPTY	1.9971	2.0020	1.9973	9.6655e-04	0.0000e+00
74	EMPTY	2.0020	2.0068	2.0067	6.9053e-04	0.0000e+00
75	EMPTY	2.0117	2.0166	2.0156	1.9730e-03	0.0000e+00
76	EMPTY	2.0166	2.0215	2.0214	6.9053e-04	0.0000e+00
77	EMPTY	2.0264	2.0361	2.0314	1.3811e-03	0.0000e+00
78	EMPTY	2.0459	2.0508	2.0462	1.1714e-03	0.0000e+00
79	EMPTY	2.0605	2.0654	2.0653	6.9053e-04	0.0000e+00
80	PAN020136	-17.2716	-16.8139	-16.9496	1.0373e-01	8.7103e-01
81	PAN050136	-32.3055	-31.8478	-32.0889	1.2366e-01	1.6819e+00
82	PAN070136	-21.8945	-21.2079	-21.5390	1.3579e-01	8.7166e-01
83	PAN080136	-10.3524	-9.6657	-10.0564	1.2199e-01	8.7036e-01
84	PAN090136	-12.8964	-12.2098	-12.5729	1.6994e-01	8.7057e-01
85	PAN100136	-12.3947	-11.5554	-11.9033	2.2922e-01	8.7051e-01
86	PAN105136	-6.0939	-4.4154	-5.1753	3.7786e-01	8.7010e-01
87	PAN110136	-4.8746	-2.8910	-3.8324	6.0500e-01	8.7005e-01
88	PAN115136	-4.8599	2.0828	-3.3646	1.3909e+00	8.7004e-01
89	PAN120136	-7.0491	-0.0300	-5.1539	1.2978e+00	8.7010e-01
90	PAN125136	-6.0983	-0.7577	-5.4300	9.1027e-01	8.7011e-01
91	PAN130136	-7.1562	-1.8156	-4.8354	9.6740e-01	8.7008e-01
92	PAN120048	-12.0895	-3.0869	-10.6003	1.5109e+00	8.7040e-01
93	PAN130048	-12.7175	-7.5295	-10.9978	1.3930e+00	8.7043e-01
94	PAN120224	-13.7313	-3.5079	-9.5549	1.5450e+00	8.7033e-01
95	PAN130224	-13.7606	-9.3356	-11.0720	1.0510e+00	8.7044e-01
96	PAN120312	-12.0278	-3.2540	-9.9954	1.6380e+00	8.7036e-01
97	PAN130312	-14.4810	-8.9116	-11.4827	1.1588e+00	8.7047e-01
98	PAB000136	59.9074	60.1820	60.0438	7.5411e-02	5.9911e-01
99	PAB100136	63.5678	63.7967	63.6749	6.3813e-02	6.0145e-01
100	PAB125136	64.3583	64.7703	64.6192	9.2135e-02	6.0208e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.6389	60.1272	59.8733	1.3244e-01	7.6479e-01
102	PRV0000001	19.7336	19.8557	19.7800	5.9853e-02	7.5163e-01
103	PSR0000001	64.7001	64.9442	64.7855	8.6317e-02	7.6729e-01
104	PFM0000001	1.6233	1.8979	1.7917	7.4813e-02	5.0002e-01
105	PAN000136	-136.5626	-129.2384	-133.6329	1.1364e+00	4.9313e+00
106	PFM0000002	1.8203	1.8706	1.8471	1.5535e-02	2.0005e-01
107	EMPTY	-0.0049	-0.0049	-0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	9.9951	-8.6123	4.8012e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0023	2.6543e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0020	2.4164e-03	0.0000e+00
112	VPW0000001	101.5475	102.9147	102.4537	3.1754e-01	1.0168e+00
113	VPW0000002	118.9829	119.9594	119.5649	1.6023e-01	1.0820e+00
114	VPW0000003	147.1079	148.2798	147.8188	2.4566e-01	1.2011e+00
115	VPW0000004	104.5786	105.7505	105.3950	2.3241e-01	1.0276e+00
116	VPW0000005	139.0925	140.6550	140.0536	2.9749e-01	1.1672e+00
117	VPW0000006	145.6956	146.8675	146.4730	2.3836e-01	1.1952e+00
118	IPW0000001	545.2294	558.8958	552.8434	3.8897e+00	9.2024e+00
119	IPW0000002	1296.0183	1305.7747	1301.7938	1.8890e+00	1.3091e+01
120	IPW0000003	1317.2247	1328.9248	1323.3087	2.6905e+00	1.3225e+01
121	IPW0000004	376.6808	380.5870	379.1222	6.9053e-01	3.6014e+00
122	IPW0000005	252.3410	254.7822	254.1084	5.4822e-01	2.8337e+00
123	IPW0000006	265.7283	267.6815	266.9296	5.2395e-01	2.9063e+00
124	EMPTY	-0.0293	-0.0146	-0.0226	4.5088e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.2058e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0188	3.9471e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0180	3.9998e-03	0.0000e+00
128	IHT0000001	130.6866	133.0303	131.9287	5.5909e-01	4.3070e+00
129	IHT0000002	129.8640	132.5984	131.3055	5.3363e-01	4.3051e+00
130	IHT0000003	128.9551	131.2988	130.1738	5.3896e-01	4.3017e+00
131	IHT0000004	131.2988	133.4473	132.4434	5.2201e-01	4.3086e+00
132	IHT0000005	129.4509	131.7946	130.6540	5.3722e-01	4.3031e+00
133	IHT0000006	125.1916	127.3400	126.3634	5.0839e-01	4.2903e+00
134	IHT0000007	131.3927	133.7365	132.7208	5.2645e-01	4.3095e+00
135	IHT0000008	130.2584	132.6021	131.5123	5.3100e-01	4.3058e+00
136	IHT0000009	129.7063	132.2454	131.0851	5.3585e-01	4.3045e+00
137	IHT0000010	129.9279	132.0763	131.1427	5.4717e-01	4.3046e+00
138	IHT0000011	131.0246	132.9778	131.9894	4.9033e-01	4.3072e+00
139	IHT0000012	129.8265	132.3655	131.0921	5.3705e-01	4.3045e+00
140	IHT0000013	91.4213	93.5697	92.5190	5.4375e-01	4.2031e+00
141	IHT0000014	126.8855	129.2293	128.1668	5.3257e-01	4.2957e+00
142	IHT0000015	93.9528	96.1013	95.2067	4.8503e-01	4.2091e+00
143	IHT0000016	88.2174	90.7565	89.5845	5.2940e-01	4.1967e+00
144	IHT0000017	103.8800	108.3722	105.9698	1.0930e+00	4.2347e+00
145	IHT0000018	106.6181	108.7665	107.7080	4.8663e-01	4.2391e+00
146	IHT0000019	106.8397	109.1834	108.2264	5.2087e-01	4.2404e+00
147	IHT0000020	105.1908	107.9252	106.5112	5.4040e-01	4.2361e+00
148	IHT0000021	-3.1814	-0.4470	-1.7009	6.3022e-01	4.1000e+00
149	IHT0000022	92.0410	94.3848	93.3574	5.3788e-01	4.2049e+00
150	IHT0000023	104.5711	106.9148	105.9149	5.0477e-01	4.2346e+00
151	IHT0000024	70.1059	72.0590	71.1372	4.8815e-01	4.1613e+00
152	IHT0000025	102.2724	104.6161	103.3505	4.9794e-01	4.2283e+00
153	IHT0000026	104.8903	107.2341	105.8395	5.1450e-01	4.2344e+00
154	IHT0000027	89.6672	92.0110	90.7805	4.6396e-01	4.1993e+00
155	IHT0000028	90.5987	93.3331	92.0557	5.4990e-01	4.2021e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0021	108.7365	107.0607	5.7194e-01	4.2375e+00
157	IHT000030	108.5073	111.0464	109.6441	5.8085e-01	4.2441e+00
158	IHT000031	106.5881	109.1271	107.6232	5.8693e-01	4.2389e+00
159	IHT000032	107.4332	109.9722	108.4917	5.9984e-01	4.2411e+00
160	IHT000033	107.4144	110.1487	108.4222	6.2060e-01	4.2409e+00
161	IHT000034	94.3247	96.2778	94.9458	5.0020e-01	4.2085e+00
162	IHT000035	123.9633	126.3071	124.8618	5.3815e-01	4.2859e+00
163	IHT000036	92.8110	94.7641	93.5649	4.6018e-01	4.2054e+00

Velocity 1 = 3.4149 (ft/sec) (+/- 14.7883 %)
 Velocity 2 = 3.4730 (ft/sec) (+/- 6.0858 %)
 Pressure drop = -4.8199 (psi)
 Tsat in = 292.9065 (deg F) Tsat out = 297.8742 (deg F)
 Phi inner = 99.2458 (kBtu/hr-ft2) (+/- 1.5736 %)
 Phi outer = 100.8479 (kBtu/hr-ft2) (+/- 1.5497 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.5036	76.1408	75.7290	1.7021e-01	1.9000e+00
1	TRF000002	75.7184	76.3524	76.0505	1.4307e-01	1.9000e+00
2	TFM000001	86.0516	87.1003	86.4521	2.0940e-01	1.9002e+00
3	TIN000001	85.9030	86.7430	86.2653	1.8081e-01	1.9002e+00
4	TRV000001	87.3090	88.0422	87.6128	1.5738e-01	1.9002e+00
5	TSR000001	159.2969	163.8374	162.0148	1.3588e+00	1.9057e+00
6	EMPTY	37.9974	38.9168	38.4619	2.4146e-01	1.9010e+00
7	TAO050136	225.3100	226.2561	225.8951	1.9848e-01	1.9163e+00
8	TAO070136	230.4380	231.7660	231.1599	2.6322e-01	1.9174e+00
9	TAO080136	231.1053	231.6718	231.3748	1.6996e-01	1.9175e+00
10	TAO090136	202.3559	203.4139	202.9173	2.3009e-01	1.9119e+00
11	TAO100136	256.1291	257.1521	256.6112	2.1784e-01	1.9233e+00
12	TAO105136	261.7381	262.9438	262.3931	2.8730e-01	1.9248e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	279.5386	280.3669	279.9069	2.1595e-01	1.9295e+00
15	EMPTY	31.7686	43.0426	38.3951	3.3558e+00	1.9010e+00
16	TAO125136	291.5201	292.7015	292.1899	2.7421e-01	1.9330e+00
17	EMPTY	44.8706	45.5552	45.2665	1.9077e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5758	1.3158e-01	1.9012e+00
19	TAO130048	269.3680	270.4727	269.8903	2.1043e-01	1.9267e+00
20	TAO120224	277.0230	278.2183	277.6214	2.5601e-01	1.9288e+00
21	EMPTY	39.1464	39.8352	39.4838	1.6963e-01	1.9010e+00
22	TAO120312	283.1237	284.0417	283.5904	2.2930e-01	1.9305e+00
23	TAO130312	272.0879	272.8245	272.4281	1.7653e-01	1.9274e+00
24	EMPTY	39.3761	40.0646	39.5963	1.6204e-01	1.9011e+00
25	TRT070000	238.0307	239.1656	238.5790	2.3251e-01	1.9190e+00
26	TRT100000	273.6690	274.7729	274.3542	2.1161e-01	1.9279e+00
27	TRT120000	281.9706	282.8871	282.3989	2.0616e-01	1.9302e+00
28	TRT125000	286.1836	287.0030	286.5344	2.0032e-01	1.9313e+00
29	EMPTY	40.0646	40.5234	40.1302	1.1470e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6712	2.1471e-01	1.9011e+00
31	TAF050136	143.9411	146.1401	145.1834	4.5974e-01	1.9038e+00
32	TAF070136	161.6996	164.0643	162.6811	5.9894e-01	1.9058e+00
33	TAF080136	169.7787	172.1234	170.7978	4.7356e-01	1.9068e+00
34	TAF090136	180.5642	181.9312	181.1162	3.4028e-01	1.9083e+00
35	TAF100136	193.0334	195.8465	194.6098	5.3659e-01	1.9104e+00
36	TAF105136	201.7492	203.2737	202.4391	3.7207e-01	1.9118e+00
37	TAF110136	210.2408	215.2824	212.2791	9.3982e-01	1.9136e+00
38	TAF115136	216.8115	219.4738	218.3471	5.9812e-01	1.9148e+00
39	TAF120136	223.8437	226.8639	225.6717	7.0429e-01	1.9163e+00
40	TAF125136	229.7382	233.8648	231.2100	9.0015e-01	1.9174e+00
41	TAF130136	235.0242	236.9042	236.0582	3.6192e-01	1.9185e+00
42	TAF120048	223.9958	226.9549	225.5275	6.7964e-01	1.9162e+00
43	TAF130048	232.8088	234.5062	233.4655	3.4318e-01	1.9179e+00
44	TAF120224	221.2563	225.0475	223.1857	8.3513e-01	1.9157e+00
45	TAF130224	232.3279	234.4144	233.0134	4.4695e-01	1.9178e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9505	2.2985e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6666	1.1260e-01	1.9011e+00
48	TAI130048	288.2729	289.2776	288.6924	2.4306e-01	1.9320e+00
49	TAI130136	289.9816	290.6194	290.2755	1.5482e-01	1.9324e+00
50	TAI130224	283.4409	284.4496	284.0755	1.8139e-01	1.9306e+00
51	TAI130312	286.2050	287.1201	286.5936	2.1835e-01	1.9313e+00
52	TRR130000	140.0549	141.6601	140.9129	4.1308e-01	1.9034e+00
53	TSI000001	42.3774	43.0294	42.7563	1.8051e-01	1.9005e+00
54	TSI000002	80.3455	81.8187	81.1296	3.7754e-01	1.9001e+00
55	TSO000001	40.2851	41.1596	40.6825	2.0050e-01	1.9006e+00
56	TSO000002	56.0115	56.7652	56.3543	2.1043e-01	1.9001e+00
57	TAF020136	109.1943	111.3708	110.0765	5.4771e-01	1.9011e+00
58	EMPTY	42.5851	43.5000	43.0613	2.2793e-01	1.9012e+00
59	TAF130312	237.5838	240.0251	238.5060	5.4735e-01	1.9190e+00
60	EMPTY	4.1553	4.1797	4.1662	6.1060e-03	0.0000e+00
61	EMPTY	4.1455	4.1602	4.1537	4.0348e-03	0.0000e+00
62	EMPTY	4.1357	4.1504	4.1428	3.4615e-03	0.0000e+00
63	EMPTY	4.1357	4.1455	4.1380	3.0070e-03	0.0000e+00
64	EMPTY	1.9336	1.9434	1.9350	2.4414e-03	0.0000e+00
65	EMPTY	1.9434	1.9531	1.9465	2.5511e-03	0.0000e+00
66	EMPTY	1.9531	1.9580	1.9541	1.9883e-03	0.0000e+00
67	EMPTY	1.9580	1.9678	1.9629	2.8191e-03	0.0000e+00
68	EMPTY	1.9629	1.9727	1.9685	1.9934e-03	0.0000e+00
69	EMPTY	1.9727	1.9824	1.9776	2.5391e-03	0.0000e+00
70	EMPTY	1.9824	1.9873	1.9847	2.4621e-03	0.0000e+00
71	EMPTY	1.9971	2.0068	2.0004	2.8866e-03	0.0000e+00
72	EMPTY	2.0020	2.0117	2.0055	2.3953e-03	0.0000e+00
73	EMPTY	2.0117	2.0215	2.0167	2.3353e-03	0.0000e+00
74	EMPTY	2.0215	2.0313	2.0239	2.6600e-03	0.0000e+00
75	EMPTY	2.0313	2.0361	2.0333	2.4414e-03	0.0000e+00
76	EMPTY	2.0361	2.0410	2.0388	2.4538e-03	0.0000e+00
77	EMPTY	2.0459	2.0557	2.0508	1.9934e-03	0.0000e+00
78	EMPTY	2.0605	2.0703	2.0655	1.2165e-03	0.0000e+00
79	EMPTY	2.0801	2.0850	2.0829	2.4414e-03	0.0000e+00
80	PAN020136	-17.2716	-16.8901	-17.0272	7.9378e-02	8.7104e-01
81	PAN050136	-34.2892	-33.3736	-33.7100	1.9446e-01	1.6821e+00
82	PAN070136	-20.5975	-19.9872	-20.2425	1.5771e-01	8.7147e-01
83	PAN080136	-10.1235	-9.6657	-9.8853	1.2423e-01	8.7035e-01
84	PAN090136	-12.8964	-12.2098	-12.5227	1.6352e-01	8.7056e-01
85	PAN100136	-12.2421	-8.5800	-11.2643	1.0524e+00	8.7046e-01
86	PAN105136	-6.1702	-4.1102	-5.5333	5.4786e-01	8.7011e-01
87	PAN110136	-6.0190	-1.8229	-3.9124	9.5161e-01	8.7005e-01
88	PAN115136	-5.3940	0.9384	-3.6704	1.2009e+00	8.7005e-01
89	PAN120136	-7.0491	0.5040	-4.9269	1.5148e+00	8.7009e-01
90	PAN125136	-6.0983	-5.0302	-5.6405	2.9052e-01	8.7011e-01
91	PAN130136	-6.0118	-0.5186	-4.5435	1.0229e+00	8.7007e-01
92	PAN120048	-12.0895	-6.6727	-11.4013	8.9171e-01	8.7047e-01
93	PAN130048	-12.7175	-10.1998	-11.6774	7.9770e-01	8.7049e-01
94	PAN120224	-11.8239	-7.1700	-9.8247	1.1088e+00	8.7035e-01
95	PAN130224	-13.6843	-9.2593	-11.0919	1.0074e+00	8.7044e-01
96	PAN120312	-12.9434	-9.2813	-11.2509	9.1310e-01	8.7045e-01
97	PAN130312	-13.5655	-9.1404	-11.2393	1.0878e+00	8.7045e-01
98	PAB000136	60.1820	60.3652	60.2699	5.4354e-02	5.9925e-01
99	PAB100136	63.7051	64.0256	63.8994	6.7076e-02	6.0160e-01
100	PAB125136	64.7703	65.0450	64.8889	5.1110e-02	6.0226e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.8831	60.1272	59.9852	7.1989e-02	7.6485e-01
102	PRV000001	19.9778	20.0998	19.9852	2.9569e-02	7.5166e-01
103	PSR000001	64.9442	65.0663	65.0214	5.9458e-02	7.6741e-01
104	PFM000001	1.5317	1.8979	1.7391	7.6543e-02	5.0002e-01
105	PAN000136	-135.6471	-127.4073	-133.4423	1.1844e+00	4.9313e+00
106	PFM000002	1.7699	1.8371	1.8004	1.4801e-02	2.0005e-01
107	EMPTY	-0.0049	0.0000	-0.0046	1.1827e-03	0.0000e+00
108	EMPTY	-10.0000	3.1250	-9.5408	2.0847e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0015	2.2737e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0006	1.6172e-03	0.0000e+00
112	VPW000001	102.1334	102.9147	102.5319	2.2183e-01	1.0171e+00
113	VPW000002	119.1782	119.9594	119.5130	1.7378e-01	1.0818e+00
114	VPW000003	147.1079	148.0844	147.6261	2.1303e-01	1.2003e+00
115	VPW000004	104.9692	105.7505	105.3080	1.9844e-01	1.0273e+00
116	VPW000005	139.4832	140.4597	139.9456	2.4150e-01	1.1667e+00
117	VPW000006	146.2816	147.0628	146.5487	2.0981e-01	1.1955e+00
118	IPW000001	566.7051	574.5145	570.5699	1.8474e+00	9.2697e+00
119	IPW000002	1272.6030	1284.3107	1279.4122	2.1122e+00	1.2953e+01
120	IPW000003	1297.7247	1307.4747	1303.2565	2.2286e+00	1.3100e+01
121	IPW000004	382.0519	385.9581	384.2542	7.6637e-01	3.6352e+00
122	IPW000005	252.8292	255.2704	253.9850	5.6106e-01	2.8330e+00
123	IPW000006	264.7518	267.6815	265.9576	5.2836e-01	2.9008e+00
124	EMPTY	-0.0293	-0.0146	-0.0220	3.3240e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0155	3.4054e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0195	3.4527e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	3.0070e-03	0.0000e+00
128	IHT000001	130.6866	132.8350	131.7110	5.4596e-01	4.3064e+00
129	IHT000002	130.0594	132.4031	131.1875	5.6137e-01	4.3048e+00
130	IHT000003	128.9551	131.6894	130.0951	5.6991e-01	4.3014e+00
131	IHT000004	131.2988	133.6426	132.3352	5.7250e-01	4.3083e+00
132	IHT000005	129.4509	131.5993	130.5310	5.6255e-01	4.3028e+00
133	IHT000006	124.9963	127.3400	126.2717	5.5972e-01	4.2900e+00
134	IHT000007	131.1974	133.7365	132.5566	5.3926e-01	4.3090e+00
135	IHT000008	130.0631	132.4068	131.3385	5.3206e-01	4.3052e+00
136	IHT000009	129.5110	131.8547	130.8781	5.2286e-01	4.3038e+00
137	IHT000010	129.7326	132.2716	131.0320	5.6459e-01	4.3043e+00
138	IHT000011	131.0246	133.3684	132.1765	5.5708e-01	4.3078e+00
139	IHT000012	130.0218	132.5609	131.2256	5.8505e-01	4.3049e+00
140	IHT000013	91.4213	93.7650	92.5812	5.2044e-01	4.2032e+00
141	IHT000014	126.8855	129.4246	128.1133	5.9268e-01	4.2955e+00
142	IHT000015	94.1481	96.2966	95.2523	5.4161e-01	4.2092e+00
143	IHT000016	88.4127	90.7565	89.6005	5.6218e-01	4.1968e+00
144	IHT000017	103.8800	106.2237	104.8844	5.4373e-01	4.2320e+00
145	IHT000018	106.4228	108.9618	107.5628	5.3836e-01	4.2387e+00
146	IHT000019	107.0350	109.9647	108.1391	5.6319e-01	4.2402e+00
147	IHT000020	105.3861	107.9252	106.3827	5.2171e-01	4.2358e+00
148	IHT000021	-2.7907	0.1390	-1.6627	5.9169e-01	4.1000e+00
149	IHT000022	92.2363	94.7754	93.3006	5.2296e-01	4.2048e+00
150	IHT000023	104.7664	107.1101	105.7908	4.8588e-01	4.2343e+00
151	IHT000024	69.7153	72.2543	71.0147	4.8755e-01	4.1610e+00
152	IHT000025	101.8818	104.2255	103.2171	5.0954e-01	4.2279e+00
153	IHT000026	104.3044	106.6481	105.6716	5.2740e-01	4.2340e+00
154	IHT000027	89.2766	91.8157	90.7594	5.6229e-01	4.1993e+00
155	IHT000028	90.4034	93.3331	91.5832	4.9789e-01	4.2010e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4162	107.9552	106.4884	4.6515e-01	4.2360e+00
157	IHT000030	107.9214	110.6558	109.0614	4.7399e-01	4.2426e+00
158	IHT000031	105.6115	108.3459	107.0106	4.5691e-01	4.2373e+00
159	IHT000032	106.4566	109.3863	107.8516	5.1828e-01	4.2395e+00
160	IHT000033	106.2425	109.3675	107.7970	5.3184e-01	4.2393e+00
161	IHT000034	93.1528	95.4965	94.5519	4.2818e-01	4.2076e+00
162	IHT000035	122.7915	125.5258	124.4098	4.8337e-01	4.2846e+00
163	IHT000036	91.8344	94.3735	93.3093	4.3866e-01	4.2048e+00

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Velocity 1 = 0.049800 (ft/sec)

Velocity 2 = 0.043500 (ft/sec)

Pressure Drop = 0.006900 (psi)

Tsat in = 0.249390 (deg F) Tsat out = 0.283295 (deg F)

Phi inner = 1.431602 (kBtu/hr-ft2) Phi outer = 0.147003 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0639	0.0844
1	TRF000002	0.0743	0.0978
2	TFM000001	0.5196	0.6047
3	TIN000001	0.3519	0.4096
4	TRV000001	1.0627	1.2278
5	TSR000001	4.2684	2.7059
6	EMPTY	0.0829	0.2160
7	TAO050136	8.5755	3.9460
8	TAO070136	0.9718	0.4222
9	TAO080136	0.5264	0.2280
10	TAO090136	3.8664	1.9424
11	TAO100136	1.0863	0.4251
12	TAO105136	0.9090	0.3476
13	EMPTY	0.0000	0.0000
14	TAO115136	1.0493	0.3763
15	EMPTY	0.0924	0.2401
16	TAO125136	1.4953	0.5144
17	EMPTY	0.0195	0.0431
18	EMPTY	0.0019	0.0046
19	TAO130048	2.7390	1.0253
20	TAO120224	1.1190	0.4047
21	EMPTY	0.0205	0.0519
22	TAO120312	1.8493	0.6564
23	TAO130312	1.8466	0.6825
24	EMPTY	0.0549	0.1388
25	TRT070000	10.6303	4.6635
26	TRT100000	3.4730	1.2821
27	TRT120000	2.9651	1.0611
28	TRT125000	3.0853	1.0885
29	EMPTY	0.0380	0.0948
30	EMPTY	0.0059	0.0149
31	TAF050136	2.2329	1.5620
32	TAF070136	0.7937	0.4903
33	TAF080136	0.7281	0.4281
34	TAF090136	0.8744	0.4851
35	TAF100136	0.8171	0.4216
36	TAF105136	0.9305	0.4618
37	TAF110136	1.4270	0.6768
38	TAF115136	1.1187	0.5150
39	TAF120136	1.2409	0.5529
40	TAF125136	0.9234	0.4010
41	TAF130136	1.2730	0.5422
42	TAF120048	2.8234	1.2678
43	TAF130048	2.6291	1.1389
44	TAF120224	1.1689	0.5265
45	TAF130224	0.9830	0.4237

#	Name	Abs Diff	%Diff
46	EMPTY	0.0699	0.1839
47	EMPTY	0.0492	0.1239
48	TAI130048	2.4255	0.8473
49	TAI130136	1.4998	0.5194
50	TAI130224	0.8905	0.3145
51	TAI130312	1.9623	0.6894
52	TRR130000	0.3022	0.2149
53	TSI000001	0.0381	0.0892
54	TSI000002	0.3372	0.4139
55	TSO000001	0.0866	0.2124
56	TSO000002	0.0219	0.0389
57	TAF020136	0.5897	0.5386
58	EMPTY	0.1414	0.3273
59	TAF130312	1.8071	0.7635
60	EMPTY	0.0427	1.0355
61	EMPTY	0.0424	1.0313
62	EMPTY	0.0418	1.0193
63	EMPTY	0.0406	0.9909
64	EMPTY	0.0179	0.9337
65	EMPTY	0.0184	0.9543
66	EMPTY	0.0184	0.9506
67	EMPTY	0.0188	0.9670
68	EMPTY	0.0196	1.0057
69	EMPTY	0.0189	0.9649
70	EMPTY	0.0171	0.8691
71	EMPTY	0.0179	0.9029
72	EMPTY	0.0181	0.9107
73	EMPTY	0.0194	0.9713
74	EMPTY	0.0172	0.8571
75	EMPTY	0.0177	0.8781
76	EMPTY	0.0174	0.8608
77	EMPTY	0.0194	0.9550
78	EMPTY	0.0193	0.9432
79	EMPTY	0.0176	0.8522
80	PAN020136	0.0776	0.4578
81	PAN050136	1.6211	5.0519
82	PAN070136	1.2965	6.0193
83	PAN080136	0.1711	1.7014
84	PAN090136	0.0502	0.3993
85	PAN100136	0.6390	5.3683
86	PAN105136	0.3580	6.9175
87	PAN110136	0.0800	2.0875
88	PAN115136	0.3058	9.0887
89	PAN120136	0.2270	4.4044
90	PAN125136	0.2105	3.8766
91	PAN130136	0.2919	6.0367
92	PAN120048	0.8010	7.5564
93	PAN130048	0.6796	6.1794
94	PAN120224	0.2698	2.8237
95	PAN130224	0.0199	0.1797
96	PAN120312	1.2555	12.5608
97	PAN130312	0.2434	2.1197
98	PAB000136	0.2261	0.3766
99	PAB100136	0.2245	0.3526
100	PAB125136	0.2697	0.4174

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1119	0.1869
102	PRV000001	0.2052	1.0374
103	PSR000001	0.2359	0.3641
104	PFM000001	0.0526	2.9358
105	PAN000136	0.1906	0.1426
106	PFM000002	0.0467	2.5283
107	EMPTY	0.0003	6.1224
108	EMPTY	0.9285	10.7811
109	EMPTY	0.0008	34.7826
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0014	70.0000
112	VPW000001	0.0782	0.0763
113	VPW000002	0.0519	0.0434
114	VPW000003	0.1927	0.1304
115	VPW000004	0.0870	0.0825
116	VPW000005	0.1080	0.0771
117	VPW000006	0.0757	0.0517
118	IPW000001	17.7265	3.2064
119	IPW000002	22.3816	1.7193
120	IPW000003	20.0522	1.5153
121	IPW000004	5.1320	1.3537
122	IPW000005	0.1234	0.0486
123	IPW000006	0.9720	0.3641
124	EMPTY	0.0006	2.6549
125	EMPTY	0.0009	6.1644
126	EMPTY	0.0007	3.7234
127	EMPTY	0.0011	6.1111
128	IHT000001	0.2177	0.1650
129	IHT000002	0.1180	0.0899
130	IHT000003	0.0787	0.0605
131	IHT000004	0.1082	0.0817
132	IHT000005	0.1230	0.0941
133	IHT000006	0.0917	0.0726
134	IHT000007	0.1642	0.1237
135	IHT000008	0.1738	0.1322
136	IHT000009	0.2070	0.1579
137	IHT000010	0.1107	0.0844
138	IHT000011	0.1871	0.1418
139	IHT000012	0.1335	0.1018
140	IHT000013	0.0622	0.0672
141	IHT000014	0.0535	0.0417
142	IHT000015	0.0456	0.0479
143	IHT000016	0.0160	0.0179
144	IHT000017	1.0854	1.0243
145	IHT000018	0.1452	0.1348
146	IHT000019	0.0873	0.0807
147	IHT000020	0.1285	0.1206
148	IHT000021	0.0382	2.2459
149	IHT000022	0.0568	0.0608
150	IHT000023	0.1241	0.1172
151	IHT000024	0.1225	0.1722
152	IHT000025	0.1334	0.1291
153	IHT000026	0.1679	0.1586
154	IHT000027	0.0211	0.0232
155	IHT000028	0.4725	0.5133

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#	Name	Abs Diff	%Diff
156	IHT000029	0.5723	0.5346
157	IHT000030	0.5827	0.5314
158	IHT000031	0.6126	0.5692
159	IHT000032	0.6401	0.5900
160	IHT000033	0.6252	0.5766
161	IHT000034	0.3939	0.4149
162	IHT000035	0.4520	0.3620
163	IHT000036	0.2556	0.2732

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8068	108.3458	106.9044	6.2626e-01	4.2371e+00
157	IHT000030	108.3120	110.8511	109.4800	6.1192e-01	4.2437e+00
158	IHT000031	106.3927	108.9318	107.4318	5.7377e-01	4.2384e+00
159	IHT000032	107.2378	109.7769	108.2964	6.1775e-01	4.2406e+00
160	IHT000033	107.2190	109.7581	108.2386	5.9227e-01	4.2405e+00
161	IHT000034	93.9340	96.0825	94.9067	5.4888e-01	4.2084e+00
162	IHT000035	123.7680	126.1118	124.8071	5.6969e-01	4.2858e+00
163	IHT000036	92.6157	94.5688	93.5962	4.4902e-01	4.2055e+00

Velocity 1 = 2.9479 (ft/sec) (+/- 19.7613 %)
 Velocity 2 = 3.0010 (ft/sec) (+/- 7.5902 %)
 Pressure drop = -4.9097 (psi)
 Tsat in = 292.9023 (deg F) Tsat out = 297.9281 (deg F)
 Phi inner = 100.1993 (kBtu/hr-ft2) (+/- 1.5712 %)
 Phi outer = 101.0127 (kBtu/hr-ft2) (+/- 1.5499 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.7160	76.3531	75.9804	1.6526e-01	1.9000e+00
1	TRF000002	75.9298	76.5637	76.3050	1.1626e-01	1.9000e+00
2	TFM000001	85.5285	86.4723	86.1126	2.0536e-01	1.9002e+00
3	TIN000001	85.6926	86.4285	86.0743	1.5576e-01	1.9002e+00
4	TRV000001	86.6831	87.5210	87.0909	1.7654e-01	1.9002e+00
5	TSR000001	157.5161	161.5697	159.3614	1.0302e+00	1.9054e+00
6	EMPTY	37.9974	38.6870	38.3868	2.1089e-01	1.9010e+00
7	TAO050136	238.6679	239.7928	239.1885	2.2063e-01	1.9192e+00
8	TAO070136	249.9860	251.0168	250.5269	2.3391e-01	1.9218e+00
9	TAO080136	249.8866	250.4455	250.2060	1.6343e-01	1.9218e+00
10	TAO090136	216.8992	217.5664	217.2941	1.7819e-01	1.9146e+00
11	TAO100136	278.9413	279.6759	279.3425	2.1254e-01	1.9293e+00
12	TAO105136	285.5973	286.7868	286.1803	2.8362e-01	1.9312e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	304.1746	305.3573	304.7909	2.6859e-01	1.9368e+00
15	EMPTY	31.3055	42.8139	38.8631	3.6206e+00	1.9010e+00
16	TAO125136	317.8470	318.5646	318.1658	2.0299e-01	1.9410e+00
17	EMPTY	44.8706	45.7833	45.2479	2.1623e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5712	1.1454e-01	1.9012e+00
19	TAO130048	295.3826	296.2886	295.9553	1.7302e-01	1.9341e+00
20	TAO120224	303.1317	304.2198	303.6833	2.0087e-01	1.9364e+00
21	EMPTY	39.6057	40.2940	39.7743	1.6744e-01	1.9011e+00
22	TAO120312	312.2683	313.0812	312.7808	2.0816e-01	1.9393e+00
23	TAO130312	299.9174	300.5522	300.2636	1.6304e-01	1.9354e+00
24	EMPTY	39.1464	40.0646	39.6150	2.1452e-01	1.9011e+00
25	TRT070000	240.6816	241.5309	241.0681	1.8517e-01	1.9196e+00
26	TRT100000	298.6882	299.7771	299.2403	2.2365e-01	1.9351e+00
27	TRT120000	309.2610	309.9841	309.6338	1.8954e-01	1.9383e+00
28	TRT125000	311.4622	312.2717	311.7633	1.6151e-01	1.9390e+00
29	EMPTY	40.0646	40.2940	40.1068	8.9751e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6712	1.9318e-01	1.9011e+00
31	TAF050136	153.7057	156.6820	155.1319	6.5878e-01	1.9049e+00
32	TAF070136	174.7381	177.6638	176.0525	6.9420e-01	1.9076e+00
33	TAF080136	184.4614	187.1669	185.6112	6.1788e-01	1.9090e+00
34	TAF090136	195.8172	198.2312	196.7222	5.7160e-01	1.9108e+00
35	TAF100136	211.1732	215.1001	212.6695	1.1615e+00	1.9137e+00
36	TAF105136	219.9624	225.7050	221.6710	1.4178e+00	1.9154e+00
37	TAF110136	232.0000	240.2472	236.1652	2.5910e+00	1.9185e+00
38	TAF115136	238.5434	241.1692	239.5624	6.4795e-01	1.9193e+00
39	TAF120136	245.6033	247.1869	246.3605	3.8282e-01	1.9208e+00
40	TAF125136	252.3044	253.8799	253.0948	4.2072e-01	1.9225e+00
41	TAF130136	258.5469	260.4931	259.3947	4.1696e-01	1.9240e+00
42	TAF120048	244.7916	248.9371	246.6348	6.8092e-01	1.9209e+00
43	TAF130048	255.6621	258.1723	256.8806	5.8307e-01	1.9234e+00
44	TAF120224	242.6517	244.1490	243.3223	3.7791e-01	1.9201e+00
45	TAF130224	254.8464	256.9971	255.7779	4.7221e-01	1.9231e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9927	2.1758e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8586	1.4994e-01	1.9011e+00
48	TAI130048	313.5046	314.2263	313.8987	1.4340e-01	1.9397e+00
49	TAI130136	314.1096	314.8291	314.4951	1.7018e-01	1.9399e+00
50	TAI130224	304.0792	304.7145	304.4422	1.5501e-01	1.9367e+00
51	TAI130312	310.4031	310.9453	310.7697	1.2015e-01	1.9387e+00
52	TRR130000	143.6616	145.5628	144.6867	3.9075e-01	1.9038e+00
53	TSI000001	42.5947	43.3550	42.9676	1.9841e-01	1.9005e+00
54	TSI000002	82.5546	84.0232	83.2761	3.3592e-01	1.9001e+00
55	TSO000001	40.1744	41.0499	40.6121	1.7593e-01	1.9006e+00
56	TSO000002	57.4100	58.5926	58.0949	2.4507e-01	1.9001e+00
57	TAF020136	112.6122	115.0954	113.9738	4.9913e-01	1.9013e+00
58	EMPTY	42.8139	43.5000	43.1966	2.6973e-01	1.9013e+00
59	TAF130312	263.4924	266.2644	264.7069	6.1413e-01	1.9254e+00
60	EMPTY	4.8291	4.8535	4.8408	5.8811e-03	0.0000e+00
61	EMPTY	4.8193	4.8291	4.8222	2.9765e-03	0.0000e+00
62	EMPTY	4.8047	4.8096	4.8066	2.4037e-03	0.0000e+00
63	EMPTY	4.7949	4.7998	4.7983	2.2737e-03	0.0000e+00
64	EMPTY	2.2217	2.2314	2.2263	1.5467e-03	0.0000e+00
65	EMPTY	2.2314	2.2412	2.2355	2.0781e-03	0.0000e+00
66	EMPTY	2.2363	2.2412	2.2409	1.1827e-03	0.0000e+00
67	EMPTY	2.2461	2.2510	2.2472	2.0584e-03	0.0000e+00
68	EMPTY	2.2461	2.2510	2.2508	9.7615e-04	0.0000e+00
69	EMPTY	2.2559	2.2607	2.2601	1.6172e-03	0.0000e+00
70	EMPTY	2.2607	2.2656	2.2655	6.9754e-04	0.0000e+00
71	EMPTY	2.2754	2.2803	2.2795	1.8234e-03	0.0000e+00
72	EMPTY	2.2803	2.2852	2.2811	1.8234e-03	0.0000e+00
73	EMPTY	2.2900	2.2949	2.2902	9.7615e-04	0.0000e+00
74	EMPTY	2.2949	2.2998	2.2953	1.3508e-03	0.0000e+00
75	EMPTY	2.2998	2.3096	2.3046	1.2165e-03	0.0000e+00
76	EMPTY	2.3047	2.3096	2.3086	1.9883e-03	0.0000e+00
77	EMPTY	2.3145	2.3193	2.3190	1.1827e-03	0.0000e+00
78	EMPTY	2.3291	2.3340	2.3314	2.4621e-03	0.0000e+00
79	EMPTY	2.3438	2.3486	2.3477	1.9103e-03	0.0000e+00
80	PAN020136	-18.4160	-17.0427	-17.4086	2.8884e-01	8.7109e-01
81	PAN050136	-35.3573	-31.5426	-34.4013	9.3117e-01	1.6822e+00
82	PAN070136	-25.6329	-18.1561	-23.3254	1.5598e+00	8.7195e-01
83	PAN080136	-13.9382	-5.8510	-7.7226	1.4226e+00	8.7021e-01
84	PAN090136	-13.1253	-7.4032	-11.9326	1.2331e+00	8.7051e-01
85	PAN100136	-12.9287	-5.2230	-10.3690	1.1992e+00	8.7039e-01
86	PAN105136	-6.0176	-0.2192	-4.8265	9.1617e-01	8.7008e-01
87	PAN110136	-6.0953	-4.6457	-5.3604	3.1752e-01	8.7010e-01
88	PAN115136	-5.3177	-3.9444	-4.7696	3.0584e-01	8.7008e-01
89	PAN120136	-5.6758	-4.6840	-5.2445	2.5330e-01	8.7010e-01
90	PAN125136	-5.1065	-4.2672	-4.7842	1.9654e-01	8.7008e-01
91	PAN130136	-5.7066	-5.3252	-5.4715	9.7052e-02	8.7011e-01
92	PAN120048	-11.4792	-10.2585	-10.9903	2.6333e-01	8.7043e-01
93	PAN130048	-10.8864	-10.3524	-10.6529	1.2786e-01	8.7041e-01
94	PAN120224	-10.5269	-8.6959	-9.8325	3.9406e-01	8.7035e-01
95	PAN130224	-10.7089	-10.0222	-10.4053	1.4650e-01	8.7039e-01
96	PAN120312	-10.5020	-9.3575	-9.9399	2.3240e-01	8.7035e-01
97	PAN130312	-10.7426	-10.0560	-10.4390	1.5377e-01	8.7039e-01
98	PAB000136	60.1363	60.3652	60.2661	5.5554e-02	5.9925e-01
99	PAB100136	63.7051	64.0256	63.9209	5.9097e-02	6.0161e-01
100	PAB125136	64.8161	65.0450	64.9403	5.2858e-02	6.0229e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.8831	60.3713	60.1471	1.2790e-01	7.6493e-01
102	PRV0000001	19.6116	19.8557	19.7336	3.5239e-02	7.5162e-01
103	PSR0000001	65.0663	65.3104	65.1709	5.5717e-02	7.6749e-01
104	PFM0000001	1.1655	1.4402	1.2851	7.7514e-02	5.0001e-01
105	PAN000136	-137.9359	-134.7315	-135.9274	7.0432e-01	4.9317e+00
106	PFM0000002	1.3001	1.3672	1.3333	1.8600e-02	2.0003e-01
107	EMPTY	-0.0049	0.0000	-0.0044	1.4934e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0022	2.4538e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0018	2.3783e-03	0.0000e+00
112	VPW0000001	101.9381	102.9147	102.4642	2.1545e-01	1.0169e+00
113	VPW0000002	119.3735	119.9594	119.6525	1.4917e-01	1.0824e+00
114	VPW0000003	147.4985	148.2798	147.8254	1.7096e-01	1.2012e+00
115	VPW0000004	105.1645	105.7505	105.4595	1.6497e-01	1.0279e+00
116	VPW0000005	139.6785	140.4597	140.0493	2.1926e-01	1.1671e+00
117	VPW0000006	146.2816	146.8675	146.6005	1.7237e-01	1.1957e+00
118	IPW0000001	553.0388	560.8481	556.7841	1.5350e+00	9.2172e+00
119	IPW0000002	1288.2131	1303.8234	1294.6644	3.5671e+00	1.3047e+01
120	IPW0000003	1311.3748	1321.1248	1315.7921	1.8574e+00	1.3178e+01
121	IPW0000004	381.5636	384.4933	382.8690	7.8092e-01	3.6261e+00
122	IPW0000005	252.8292	254.7822	253.8356	5.0235e-01	2.8322e+00
123	IPW0000006	265.7283	267.1932	266.6153	3.9459e-01	2.9045e+00
124	EMPTY	-0.0293	-0.0146	-0.0221	3.9995e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0153	3.3057e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0187	3.7752e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.4083e-03	0.0000e+00
128	IHT0000001	130.4913	132.6397	131.6711	5.4658e-01	4.3062e+00
129	IHT0000002	130.0594	132.2078	131.0798	5.2022e-01	4.3044e+00
130	IHT0000003	128.9551	131.1035	129.9914	5.3071e-01	4.3011e+00
131	IHT0000004	131.1035	133.6426	132.2435	5.4131e-01	4.3080e+00
132	IHT0000005	129.4509	131.9899	130.4832	5.1366e-01	4.3026e+00
133	IHT0000006	125.1916	127.9259	126.1721	5.5885e-01	4.2897e+00
134	IHT0000007	131.5880	134.3224	132.6283	5.6717e-01	4.3092e+00
135	IHT0000008	130.2584	132.6021	131.3505	5.6652e-01	4.3053e+00
136	IHT0000009	129.9016	132.4407	130.9498	5.5629e-01	4.3040e+00
137	IHT0000010	130.1232	132.2716	131.0957	4.7423e-01	4.3045e+00
138	IHT0000011	131.0246	133.3684	132.1008	5.1847e-01	4.3076e+00
139	IHT0000012	129.8265	132.1702	131.1578	5.0693e-01	4.3047e+00
140	IHT0000013	91.6166	93.7650	92.5932	4.9795e-01	4.2033e+00
141	IHT0000014	127.0808	129.6199	128.1212	5.3248e-01	4.2955e+00
142	IHT0000015	94.3435	96.1013	95.2283	4.7358e-01	4.2091e+00
143	IHT0000016	88.4127	90.7565	89.4530	4.7238e-01	4.1964e+00
144	IHT0000017	103.2340	108.1768	105.8291	9.9390e-01	4.2344e+00
145	IHT0000018	106.4228	108.9618	107.6146	5.4262e-01	4.2389e+00
146	IHT0000019	107.0350	109.1834	108.1471	5.2469e-01	4.2402e+00
147	IHT0000020	105.3861	107.3392	106.3468	5.0087e-01	4.2357e+00
148	IHT0000021	-2.7907	-0.0564	-1.7464	6.4106e-01	4.1000e+00
149	IHT0000022	91.8457	94.3848	93.0574	5.9131e-01	4.2043e+00
150	IHT0000023	104.7664	106.7195	105.6872	5.1675e-01	4.2340e+00
151	IHT0000024	69.9106	72.0590	70.9430	4.7675e-01	4.1609e+00
152	IHT0000025	102.0771	104.2255	103.1653	5.0744e-01	4.2278e+00
153	IHT0000026	104.4997	106.6481	105.6118	4.8041e-01	4.2338e+00
154	IHT0000027	89.2766	91.6204	90.5162	4.9403e-01	4.1987e+00
155	IHT0000028	90.0128	92.9425	91.7387	7.2022e-01	4.2014e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6115	108.1505	106.8671	6.3037e-01	4.2370e+00
157	IHT000030	108.5073	110.8511	109.4400	6.0234e-01	4.2435e+00
158	IHT000031	106.5881	108.7365	107.4052	5.8549e-01	4.2383e+00
159	IHT000032	107.4332	109.7769	108.3300	6.0845e-01	4.2407e+00
160	IHT000033	107.2190	109.7581	108.2674	6.1981e-01	4.2405e+00
161	IHT000034	94.1293	96.0825	94.8588	4.9439e-01	4.2083e+00
162	IHT000035	123.7680	125.9165	124.6370	4.8512e-01	4.2853e+00
163	IHT000036	92.6157	94.7641	93.5684	5.0055e-01	4.2054e+00

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Velocity 1 = 0.005600 (ft/sec)

Velocity 2 = 0.004900 (ft/sec)

Pressure Drop = 0.002400 (psi)

Tsat in = 0.164398 (deg F) Tsat out = 0.141815 (deg F)

Phi inner = 1.104294 (kBtu/hr-ft2) Phi outer = 0.530098 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF0000001	0.1284	0.1693
1	TRF0000002	0.0836	0.1097
2	TFM0000001	0.8011	0.9217
3	TIN0000001	0.9064	1.0421
4	TRV0000001	0.1634	0.1880
5	TSR0000001	4.0630	2.6163
6	EMPTY	0.1347	0.3497
7	TAO050136	0.1588	0.0664
8	TAO070136	2.4260	0.9778
9	TAO080136	0.2809	0.1121
10	TAO090136	8.1863	3.9149
11	TAO100136	0.3146	0.1128
12	TAO105136	0.5515	0.1931
13	EMPTY	0.0000	0.0000
14	TAO115136	0.6034	0.1984
15	EMPTY	0.5997	1.5197
16	TAO125136	0.7003	0.2196
17	EMPTY	0.0350	0.0774
18	EMPTY	0.0072	0.0173
19	TAO130048	0.3036	0.1027
20	TAO120224	0.2590	0.0852
21	EMPTY	0.0517	0.1298
22	TAO120312	0.8616	0.2762
23	TAO130312	0.8332	0.2783
24	EMPTY	0.0090	0.0227
25	TRT070000	1.6883	0.7053
26	TRT100000	0.0495	0.0165
27	TRT120000	0.7030	0.2276
28	TRT125000	0.0874	0.0280
29	EMPTY	0.0146	0.0364
30	EMPTY	0.0492	0.1239
31	TAF050136	0.5481	0.3521
32	TAF070136	0.0725	0.0412
33	TAF080136	0.4128	0.2219
34	TAF090136	0.6153	0.3118
35	TAF100136	0.1598	0.0752
36	TAF105136	0.3831	0.1731
37	TAF110136	0.0070	0.0030
38	TAF115136	0.1725	0.0720
39	TAF120136	0.1389	0.0563
40	TAF125136	0.1073	0.0424
41	TAF130136	0.0549	0.0211
42	TAF120048	0.1503	0.0609
43	TAF130048	0.1261	0.0491
44	TAF120224	0.1547	0.0635
45	TAF130224	0.0360	0.0141

#	Name	Abs Diff	%Diff
46	EMPTY	0.0459	0.1210
47	EMPTY	0.0096	0.0241
48	TAI130048	0.1323	0.0422
49	TAI130136	0.2182	0.0694
50	TAI130224	0.5212	0.1715
51	TAI130312	0.3544	0.1142
52	TRR130000	2.1303	1.4510
53	TSI000001	0.1099	0.2564
54	TSI000002	1.0592	1.2559
55	TSO000001	0.0245	0.0603
56	TSO000002	0.0761	0.1312
57	TAF020136	0.3619	0.3165
58	EMPTY	0.1083	0.2514
59	TAF130312	0.5255	0.1989
60	EMPTY	0.0120	0.2485
61	EMPTY	0.0118	0.2453
62	EMPTY	0.0115	0.2398
63	EMPTY	0.0118	0.2465
64	EMPTY	0.0052	0.2341
65	EMPTY	0.0055	0.2466
66	EMPTY	0.0055	0.2460
67	EMPTY	0.0051	0.2275
68	EMPTY	0.0049	0.2182
69	EMPTY	0.0066	0.2929
70	EMPTY	0.0051	0.2256
71	EMPTY	0.0072	0.3169
72	EMPTY	0.0050	0.2197
73	EMPTY	0.0050	0.2188
74	EMPTY	0.0051	0.2227
75	EMPTY	0.0061	0.2654
76	EMPTY	0.0056	0.2432
77	EMPTY	0.0063	0.2724
78	EMPTY	0.0062	0.2666
79	EMPTY	0.0061	0.2605
80	PAN020136	0.1285	0.7327
81	PAN050136	0.5959	1.7027
82	PAN070136	0.0698	0.3001
83	PAN080136	0.4113	5.6255
84	PAN090136	0.5854	4.6765
85	PAN100136	0.4753	4.8041
86	PAN105136	0.2679	5.2587
87	PAN110136	0.2004	3.8837
88	PAN115136	0.0760	1.6192
89	PAN120136	0.1821	3.5971
90	PAN125136	0.0797	1.6386
91	PAN130136	0.1024	1.8371
92	PAN120048	0.1215	1.1179
93	PAN130048	0.0916	0.8525
94	PAN120224	0.0350	0.3572
95	PAN130224	0.0594	0.5676
96	PAN120312	0.1810	1.8547
97	PAN130312	0.1373	1.2982
98	PAB000136	0.1491	0.2480
99	PAB100136	0.1334	0.2091
100	PAB125136	0.1352	0.2086

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1884	0.3142
102	PRV000001	0.1196	0.6098
103	PSR000001	0.1535	0.2361
104	PFM000001	0.0049	0.3798
105	PAN000136	0.0675	0.0496
106	PFM000002	0.0047	0.3538
107	EMPTY	0.0010	29.4118
108	EMPTY	0.0743	0.7486
109	EMPTY	0.0011	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0010	125.0000
112	VPW000001	0.6340	0.6149
113	VPW000002	0.2992	0.2494
114	VPW000003	0.5052	0.3406
115	VPW000004	0.4121	0.3892
116	VPW000005	0.4808	0.3421
117	VPW000006	0.3803	0.2587
118	IPW000001	3.8234	0.6914
119	IPW000002	8.2224	0.6311
120	IPW000003	11.1047	0.8369
121	IPW000004	1.8522	0.4861
122	IPW000005	0.6732	0.2645
123	IPW000006	1.0955	0.4092
124	EMPTY	0.0002	0.9132
125	EMPTY	0.0021	15.9091
126	EMPTY	0.0009	5.0562
127	EMPTY	0.0005	3.1446
128	IHT000001	0.3631	0.2750
129	IHT000002	0.4015	0.3054
130	IHT000003	0.3973	0.3047
131	IHT000004	0.3952	0.2980
132	IHT000005	0.3544	0.2709
133	IHT000006	0.3397	0.2685
134	IHT000007	0.2839	0.2136
135	IHT000008	0.3805	0.2889
136	IHT000009	0.3541	0.2697
137	IHT000010	0.2540	0.1934
138	IHT000011	0.2636	0.1991
139	IHT000012	0.2898	0.2205
140	IHT000013	0.2891	0.3113
141	IHT000014	0.4089	0.3181
142	IHT000015	0.3183	0.3331
143	IHT000016	0.5690	0.6321
144	IHT000017	0.1758	0.1658
145	IHT000018	0.3277	0.3036
146	IHT000019	0.3215	0.2964
147	IHT000020	0.4144	0.3882
148	IHT000021	0.1275	7.8757
149	IHT000022	0.6047	0.6456
150	IHT000023	0.3722	0.3509
151	IHT000024	0.3309	0.4643
152	IHT000025	0.3493	0.3374
153	IHT000026	0.3449	0.3255
154	IHT000027	0.5924	0.6502
155	IHT000028	0.2936	0.3190

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0373	0.0349
157	IHT000030	0.0400	0.0365
158	IHT000031	0.0266	0.0248
159	IHT000032	0.0336	0.0310
160	IHT000033	0.0288	0.0266
161	IHT000034	0.0479	0.0505
162	IHT000035	0.1701	0.1363
163	IHT000036	0.0278	0.0297

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sum1

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Velocity 1 = 2.9535 (ft/sec) (+/- 19.6881 %)
 Velocity 2 = 2.9961 (ft/sec) (+/- 7.6114 %)
 Pressure drop = -4.9121 (psi)
 Tsat in = 292.7379 (deg F) Tsat out = 297.7863 (deg F)
 Phi inner = 101.3036 (kBtu/hr-ft2) (+/- 1.5686 %)
 Phi outer = 101.5428 (kBtu/hr-ft2) (+/- 1.5487 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.5036	76.1408	75.8520	1.5328e-01	1.9000e+00
1	TRF000002	75.9298	76.5637	76.2214	1.5327e-01	1.9000e+00
2	TFM000001	86.4713	87.6238	86.9137	2.2434e-01	1.9002e+00
3	TIN000001	86.5335	87.3736	86.9807	1.6685e-01	1.9002e+00
4	TRV000001	86.5775	87.3111	86.9275	1.7015e-01	1.9002e+00
5	TSR000001	154.3445	156.8228	155.2984	6.6733e-01	1.9049e+00
6	EMPTY	37.9974	38.9168	38.5215	2.4144e-01	1.9010e+00
7	TAO050136	238.6675	239.4183	239.0297	1.8661e-01	1.9192e+00
8	TAO070136	247.4488	248.8578	248.1009	3.5573e-01	1.9213e+00
9	TAO080136	250.0718	250.9090	250.4869	1.9907e-01	1.9218e+00
10	TAO090136	208.6882	209.5504	209.1078	2.1181e-01	1.9130e+00
11	TAO100136	278.5745	279.4918	279.0279	2.2510e-01	1.9292e+00
12	TAO105136	284.9569	286.1468	285.6288	2.6572e-01	1.9311e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	303.4477	304.7201	304.1875	2.9679e-01	1.9366e+00
15	EMPTY	31.5371	42.8139	39.4628	3.1295e+00	1.9010e+00
16	TAO125136	318.2958	319.1905	318.8661	1.8791e-01	1.9413e+00
17	EMPTY	44.8706	45.7833	45.2129	2.1746e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5640	1.2427e-01	1.9012e+00
19	TAO130048	295.3809	296.0162	295.6517	1.5728e-01	1.9340e+00
20	TAO120224	303.5851	304.3106	303.9423	1.8436e-01	1.9365e+00
21	EMPTY	39.6057	40.0646	39.8260	1.3879e-01	1.9011e+00
22	TAO120312	311.3645	312.4488	311.9192	2.9044e-01	1.9390e+00
23	TAO130312	299.1021	299.8279	299.4304	1.7754e-01	1.9351e+00
24	EMPTY	39.3761	40.0646	39.6240	1.9587e-01	1.9011e+00
25	TRT070000	239.0725	239.7333	239.3798	1.6824e-01	1.9192e+00
26	TRT100000	298.6887	299.7762	299.1908	2.3908e-01	1.9351e+00
27	TRT120000	308.5387	309.3512	308.9308	2.0540e-01	1.9381e+00
28	TRT125000	311.2829	312.0912	311.6759	1.8504e-01	1.9389e+00
29	EMPTY	39.8352	40.2940	40.0922	8.8429e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7204	2.1377e-01	1.9011e+00
31	TAF050136	154.6981	157.1765	155.6800	5.6548e-01	1.9049e+00
32	TAF070136	174.6402	177.3708	176.1250	5.6553e-01	1.9076e+00
33	TAF080136	184.4593	187.9385	186.0240	7.8906e-01	1.9090e+00
34	TAF090136	196.3002	198.8102	197.3375	5.5090e-01	1.9109e+00
35	TAF100136	211.2695	214.1432	212.5097	5.6078e-01	1.9136e+00
36	TAF105136	220.3400	222.6958	221.2879	5.4751e-01	1.9154e+00
37	TAF110136	231.9068	240.6194	236.1582	2.5981e+00	1.9185e+00
38	TAF115136	238.3557	241.6376	239.7349	7.1424e-01	1.9193e+00
39	TAF120136	245.7896	247.5596	246.4994	4.0614e-01	1.9209e+00
40	TAF125136	252.3030	253.7850	252.9875	3.7051e-01	1.9224e+00
41	TAF130136	258.1761	260.9550	259.4496	5.2661e-01	1.9240e+00
42	TAF120048	245.4528	248.0902	246.7851	5.5929e-01	1.9209e+00
43	TAF130048	255.9415	258.1719	257.0067	5.7637e-01	1.9234e+00
44	TAF120224	242.5581	244.6170	243.4770	4.0226e-01	1.9202e+00
45	TAF130224	254.3782	257.1848	255.8139	5.7521e-01	1.9231e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9468	2.2419e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8490	1.4959e-01	1.9011e+00
48	TAI130048	313.5045	314.1355	313.7664	1.6010e-01	1.9396e+00
49	TAI130136	313.9293	314.5592	314.2769	1.5532e-01	1.9398e+00
50	TAI130224	303.3528	304.2608	303.9210	2.0732e-01	1.9365e+00
51	TAI130312	310.1317	310.6739	310.4153	1.4258e-01	1.9385e+00
52	TRR130000	145.8604	147.7571	146.8170	4.9770e-01	1.9040e+00
53	TSI000001	42.3774	43.2471	42.8577	1.8250e-01	1.9005e+00
54	TSI000002	83.0783	85.5952	84.3353	5.2652e-01	1.9001e+00
55	TSO000001	40.1754	41.1596	40.6366	2.1232e-01	1.9006e+00
56	TSO000002	57.4105	58.5926	58.0188	2.9022e-01	1.9001e+00
57	TAF020136	112.7173	115.9198	114.3357	6.6562e-01	1.9013e+00
58	EMPTY	42.8139	43.5000	43.0883	2.4008e-01	1.9013e+00
59	TAF130312	262.9366	265.4328	264.1814	4.7918e-01	1.9252e+00
60	EMPTY	4.8193	4.8389	4.8288	4.2327e-03	0.0000e+00
61	EMPTY	4.8047	4.8145	4.8104	3.2253e-03	0.0000e+00
62	EMPTY	4.7900	4.7998	4.7951	3.4116e-03	0.0000e+00
63	EMPTY	4.7803	4.7949	4.7865	2.6174e-03	0.0000e+00
64	EMPTY	2.2168	2.2217	2.2211	1.6028e-03	0.0000e+00
65	EMPTY	2.2266	2.2314	2.2300	2.2603e-03	0.0000e+00
66	EMPTY	2.2314	2.2412	2.2354	2.2058e-03	0.0000e+00
67	EMPTY	2.2412	2.2461	2.2421	1.8950e-03	0.0000e+00
68	EMPTY	2.2412	2.2510	2.2459	1.3811e-03	0.0000e+00
69	EMPTY	2.2510	2.2559	2.2535	2.4642e-03	0.0000e+00
70	EMPTY	2.2559	2.2607	2.2604	1.1714e-03	0.0000e+00
71	EMPTY	2.2705	2.2754	2.2723	2.3675e-03	0.0000e+00
72	EMPTY	2.2754	2.2852	2.2761	1.9754e-03	0.0000e+00
73	EMPTY	2.2852	2.2852	2.2852	0.0000e+00	0.0000e+00
74	EMPTY	2.2852	2.2949	2.2902	1.3811e-03	0.0000e+00
75	EMPTY	2.2949	2.2998	2.2985	2.1635e-03	0.0000e+00
76	EMPTY	2.2998	2.3047	2.3030	2.3365e-03	0.0000e+00
77	EMPTY	2.3096	2.3145	2.3127	2.3675e-03	0.0000e+00
78	EMPTY	2.3242	2.3340	2.3252	2.2058e-03	0.0000e+00
79	EMPTY	2.3389	2.3438	2.3416	2.4484e-03	0.0000e+00
80	PAN020136	-17.8057	-17.1953	-17.5371	1.2450e-01	8.7110e-01
81	PAN050136	-35.6625	-33.2211	-34.9972	5.1746e-01	1.6823e+00
82	PAN070136	-25.4041	-22.4286	-23.2556	6.7774e-01	8.7194e-01
83	PAN080136	-7.8347	-6.6903	-7.3113	2.6609e-01	8.7019e-01
84	PAN090136	-13.1253	-6.6403	-12.5180	1.1418e+00	8.7056e-01
85	PAN100136	-12.9287	-8.0459	-9.8937	1.1269e+00	8.7035e-01
86	PAN105136	-6.0939	-4.4154	-5.0944	3.2815e-01	8.7009e-01
87	PAN110136	-6.0953	-4.1880	-5.1600	3.9981e-01	8.7010e-01
88	PAN115136	-5.6229	-3.8681	-4.6936	3.5642e-01	8.7008e-01
89	PAN120136	-5.5232	-4.0736	-5.0624	3.3803e-01	8.7009e-01
90	PAN125136	-5.0302	-4.4961	-4.8639	1.2587e-01	8.7009e-01
91	PAN130136	-5.9355	-5.3252	-5.5739	1.4526e-01	8.7011e-01
92	PAN120048	-11.4792	-9.4955	-10.8688	3.7661e-01	8.7042e-01
93	PAN130048	-11.1153	-10.4286	-10.7445	1.5644e-01	8.7041e-01
94	PAN120224	-10.5269	-8.3907	-9.7975	4.7836e-01	8.7034e-01
95	PAN130224	-10.8615	-10.0222	-10.4647	1.8752e-01	8.7039e-01
96	PAN120312	-10.3494	-8.3657	-9.7589	3.9352e-01	8.7034e-01
97	PAN130312	-10.8189	-10.3611	-10.5763	1.1188e-01	8.7040e-01
98	PAB000136	59.9989	60.2278	60.1170	5.9282e-02	5.9916e-01
99	PAB100136	63.7051	63.8882	63.7875	4.8055e-02	6.0152e-01
100	PAB125136	64.6788	64.9076	64.8051	4.6756e-02	6.0220e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.7610	60.1272	59.9587	1.0719e-01	7.6483e-01
102	PRV0000001	19.6116	19.7336	19.6140	1.7263e-02	7.5160e-01
103	PSR0000001	64.9442	65.0663	65.0174	6.0409e-02	7.6741e-01
104	PFM0000001	1.1655	1.4402	1.2900	6.8612e-02	5.0001e-01
105	PAN000136	-137.0204	-134.7315	-135.9949	5.5149e-01	4.9317e+00
106	PFM0000002	1.3001	1.3672	1.3286	2.6961e-02	2.0003e-01
107	EMPTY	-0.0049	0.0049	-0.0034	3.0003e-03	0.0000e+00
108	EMPTY	-10.0000	-6.5771	-9.9257	4.8499e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0011	2.6635e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0008	1.8082e-03	0.0000e+00
112	VPW0000001	102.1334	104.2819	103.0982	4.2574e-01	1.0192e+00
113	VPW0000002	119.1782	120.3501	119.9517	2.6162e-01	1.0836e+00
114	VPW0000003	147.4985	148.8657	148.3306	3.3900e-01	1.2034e+00
115	VPW0000004	105.1645	106.5317	105.8716	3.2751e-01	1.0294e+00
116	VPW0000005	139.6785	141.0457	140.5301	3.9015e-01	1.1692e+00
117	VPW0000006	146.0862	147.6487	146.9808	3.4869e-01	1.1974e+00
118	IPW0000001	547.1817	558.8958	552.9607	2.6152e+00	9.2029e+00
119	IPW0000002	1294.0670	1311.6284	1302.8868	3.6821e+00	1.3098e+01
120	IPW0000003	1313.3248	1334.7748	1326.8969	3.9388e+00	1.3247e+01
121	IPW0000004	377.6573	384.0050	381.0168	1.3295e+00	3.6139e+00
122	IPW0000005	252.3410	256.2469	254.5088	9.4177e-01	2.8359e+00
123	IPW0000006	265.7283	269.6346	267.7108	8.1592e-01	2.9108e+00
124	EMPTY	-0.0342	-0.0098	-0.0219	4.4381e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	3.0003e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	4.2727e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0159	3.2434e-03	0.0000e+00
128	IHT0000001	130.8819	133.4210	132.0342	5.7487e-01	4.3074e+00
129	IHT0000002	130.4500	132.5984	131.4813	5.7594e-01	4.3057e+00
130	IHT0000003	129.3457	131.4941	130.3887	5.6305e-01	4.3023e+00
131	IHT0000004	131.2988	133.8379	132.6387	5.7455e-01	4.3092e+00
132	IHT0000005	129.4509	132.1852	130.8376	5.5699e-01	4.3037e+00
133	IHT0000006	125.3869	127.9259	126.5118	5.1834e-01	4.2907e+00
134	IHT0000007	131.9787	134.1271	132.9122	5.0268e-01	4.3101e+00
135	IHT0000008	130.6490	132.9928	131.7310	5.6663e-01	4.3064e+00
136	IHT0000009	130.0969	132.6360	131.3039	5.7951e-01	4.3051e+00
137	IHT0000010	130.3185	132.6623	131.3497	5.3385e-01	4.3053e+00
138	IHT0000011	131.6106	133.5637	132.3644	5.3381e-01	4.3084e+00
139	IHT0000012	130.4124	132.5609	131.4476	5.1183e-01	4.3056e+00
140	IHT0000013	92.0072	94.3510	92.8823	4.9950e-01	4.2039e+00
141	IHT0000014	127.4715	130.0105	128.5301	5.3683e-01	4.2967e+00
142	IHT0000015	94.5388	97.0778	95.5466	5.1654e-01	4.2099e+00
143	IHT0000016	88.9987	91.1471	90.0220	5.4898e-01	4.1977e+00
144	IHT0000017	104.4659	107.5909	106.0049	8.4964e-01	4.2348e+00
145	IHT0000018	107.0087	109.1572	107.9423	4.9172e-01	4.2397e+00
146	IHT0000019	107.0350	109.7694	108.4686	6.3944e-01	4.2411e+00
147	IHT0000020	105.1908	108.1205	106.7612	6.3006e-01	4.2367e+00
148	IHT0000021	-3.1814	-0.0564	-1.6189	6.5554e-01	4.1000e+00
149	IHT0000022	92.2363	94.7754	93.6621	6.1289e-01	4.2056e+00
150	IHT0000023	104.5711	107.1101	106.0594	5.4375e-01	4.2350e+00
151	IHT0000024	69.7153	72.2543	71.2739	5.4603e-01	4.1615e+00
152	IHT0000025	102.2724	104.6161	103.5146	5.2757e-01	4.2287e+00
153	IHT0000026	104.6950	107.2341	105.9567	5.3845e-01	4.2347e+00
154	IHT0000027	89.6672	92.4016	91.1086	5.8513e-01	4.2000e+00
155	IHT0000028	90.7940	93.3331	92.0323	6.0310e-01	4.2020e+00

Velocity 1 = 2.7553 (ft/sec) (+/- 22.6313 %)
Velocity 2 = 2.8416 (ft/sec) (+/- 8.3136 %)
Pressure drop = -4.9409 (psi)
Tsats in = 292.9368 (deg F) Tsats out = 298.0099 (deg F)
Phi inner = 100.5274 (kBtu/hr-ft2) (+/- 1.5704 %)
Phi outer = 100.9590 (kBtu/hr-ft2) (+/- 1.5507 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.7160	76.3531	76.1408	1.6616e-01	1.9000e+00
1	TRF000002	76.3524	76.7749	76.4623	1.1484e-01	1.9000e+00
2	TFM000001	85.5285	86.3681	85.8938	1.8627e-01	1.9002e+00
3	TIN000001	85.2714	86.0076	85.6798	1.6813e-01	1.9002e+00
4	TRV000001	87.2054	88.7752	88.0597	4.1196e-01	1.9002e+00
5	TSR000001	162.2607	165.6118	164.3070	1.0441e+00	1.9060e+00
6	EMPTY	37.9974	38.9168	38.4250	2.6680e-01	1.9010e+00
7	TAO050136	242.5970	243.7201	243.1552	2.3973e-01	1.9201e+00
8	TAO070136	256.0742	257.1021	256.5797	2.4179e-01	1.9233e+00
9	TAO080136	256.0064	256.8422	256.3523	2.1606e-01	1.9233e+00
10	TAO090136	220.5136	221.4640	220.9927	1.9674e-01	1.9153e+00
11	TAO100136	286.4496	287.3641	286.7755	2.1862e-01	1.9314e+00
12	TAO105136	290.6235	291.9921	291.3535	3.2242e-01	1.9327e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	310.5326	311.8917	311.0333	3.1771e-01	1.9387e+00
15	EMPTY	31.7686	42.8139	37.3566	3.4019e+00	1.9009e+00
16	TAO125136	321.2479	322.5005	321.9278	2.6618e-01	1.9423e+00
17	EMPTY	44.8706	45.5552	45.1901	1.7250e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6144	1.3540e-01	1.9012e+00
19	TAO130048	302.7991	303.5220	303.2288	1.9190e-01	1.9363e+00
20	TAO120224	308.2022	309.2869	308.7915	2.6354e-01	1.9380e+00
21	EMPTY	39.6057	40.0646	39.8811	1.4661e-01	1.9011e+00
22	TAO120312	318.4047	319.3055	318.8154	2.0683e-01	1.9413e+00
23	TAO130312	307.1493	308.1420	307.5967	1.9898e-01	1.9377e+00
24	EMPTY	39.3761	40.0646	39.6516	1.9121e-01	1.9011e+00
25	TRT070000	248.2327	249.6432	249.1433	2.9765e-01	1.9215e+00
26	TRT100000	307.2851	308.5494	307.9174	3.0581e-01	1.9378e+00
27	TRT120000	317.0131	317.7334	317.3626	1.7307e-01	1.9408e+00
28	TRT125000	315.9414	317.0178	316.6125	1.9857e-01	1.9405e+00
29	EMPTY	40.0646	40.2940	40.1473	1.1123e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6745	2.2360e-01	1.9011e+00
31	TAF050136	156.3850	159.8491	157.9651	7.9784e-01	1.9052e+00
32	TAF070136	178.5402	180.9715	179.8548	5.7945e-01	1.9081e+00
33	TAF080136	189.6758	192.9469	191.0085	6.9832e-01	1.9098e+00
34	TAF090136	201.5084	204.6823	202.9400	6.2593e-01	1.9119e+00
35	TAF100136	218.0625	220.3526	219.0513	5.8742e-01	1.9149e+00
36	TAF105136	228.1457	232.8324	229.8829	1.1557e+00	1.9171e+00
37	TAF110136	239.8728	248.9161	244.0496	2.9869e+00	1.9203e+00
38	TAF115136	246.5948	249.7659	248.3300	7.3717e-01	1.9213e+00
39	TAF120136	254.6164	256.9303	255.6980	4.7227e-01	1.9231e+00
40	TAF125136	262.0915	263.9337	262.9072	4.5915e-01	1.9249e+00
41	TAF130136	267.9744	269.8185	269.0774	4.0830e-01	1.9265e+00
42	TAF120048	254.3875	257.2914	255.8190	6.9606e-01	1.9231e+00
43	TAF130048	265.1230	267.7113	266.0702	5.3532e-01	1.9257e+00
44	TAF120224	250.6838	252.7326	251.7156	4.2354e-01	1.9221e+00
45	TAF130224	263.1533	265.4799	264.1031	5.0127e-01	1.9252e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.2273	37.9422	1.7107e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8260	1.3081e-01	1.9011e+00
48	TAI130048	318.9977	319.6273	319.3215	1.6457e-01	1.9414e+00
49	TAI130136	319.4015	320.1194	319.7317	1.3505e-01	1.9416e+00
50	TAI130224	308.6146	309.3390	309.0094	1.6129e-01	1.9381e+00
51	TAI130312	316.2693	316.8103	316.5219	1.1942e-01	1.9405e+00
52	TRR130000	151.5421	155.2162	153.4338	7.7210e-01	1.9047e+00
53	TSI000001	42.5954	43.2478	42.9389	1.5744e-01	1.9005e+00
54	TSI000002	84.2336	86.8529	85.5707	6.1537e-01	1.9002e+00
55	TSO000001	40.1735	41.0490	40.6333	2.0497e-01	1.9006e+00
56	TSO000002	58.3778	59.3447	58.8075	2.1486e-01	1.9001e+00
57	TAF020136	113.2317	116.4354	114.7001	6.4845e-01	1.9013e+00
58	EMPTY	42.8139	43.5000	43.1066	2.3121e-01	1.9013e+00
59	TAF130312	273.0820	274.8298	273.8588	4.2615e-01	1.9278e+00
60	EMPTY	5.0684	5.0830	5.0760	4.2038e-03	0.0000e+00
61	EMPTY	5.0488	5.0586	5.0559	2.6396e-03	0.0000e+00
62	EMPTY	5.0293	5.0391	5.0373	2.5648e-03	0.0000e+00
63	EMPTY	5.0244	5.0342	5.0283	2.2058e-03	0.0000e+00
64	EMPTY	2.3242	2.3291	2.3287	1.3381e-03	0.0000e+00
65	EMPTY	2.3340	2.3389	2.3381	1.8082e-03	0.0000e+00
66	EMPTY	2.3389	2.3438	2.3431	1.7115e-03	0.0000e+00
67	EMPTY	2.3438	2.3486	2.3485	6.9053e-04	0.0000e+00
68	EMPTY	2.3486	2.3535	2.3501	2.2603e-03	0.0000e+00
69	EMPTY	2.3584	2.3633	2.3585	6.9053e-04	0.0000e+00
70	EMPTY	2.3633	2.3633	2.3633	0.0000e+00	0.0000e+00
71	EMPTY	2.3730	2.3779	2.3774	1.4797e-03	0.0000e+00
72	EMPTY	2.3779	2.3828	2.3797	2.3675e-03	0.0000e+00
73	EMPTY	2.3877	2.3926	2.3878	6.9053e-04	0.0000e+00
74	EMPTY	2.3926	2.3926	2.3926	0.0000e+00	0.0000e+00
75	EMPTY	2.3975	2.4023	2.4003	2.4344e-03	0.0000e+00
76	EMPTY	2.4023	2.4072	2.4035	2.1065e-03	0.0000e+00
77	EMPTY	2.4121	2.4170	2.4132	2.0432e-03	0.0000e+00
78	EMPTY	2.4219	2.4268	2.4265	1.1714e-03	0.0000e+00
79	EMPTY	2.4365	2.4463	2.4414	1.3951e-03	0.0000e+00
80	PAN020136	-18.8738	-16.7376	-17.6439	3.5238e-01	8.7112e-01
81	PAN050136	-37.1883	-33.6788	-35.8517	1.0779e+00	1.6824e+00
82	PAN070136	-25.7092	-17.2406	-23.3441	2.1071e+00	8.7196e-01
83	PAN080136	-13.7093	-4.1726	-6.8139	1.9641e+00	8.7017e-01
84	PAN090136	-13.2016	-12.2098	-12.9513	2.7445e-01	8.7060e-01
85	PAN100136	-12.9287	-7.9696	-9.8632	1.0625e+00	8.7035e-01
86	PAN105136	-6.1702	-4.0339	-5.3706	6.4300e-01	8.7010e-01
87	PAN110136	-6.0953	-3.2724	-4.8349	6.4171e-01	8.7008e-01
88	PAN115136	-6.8436	-2.3422	-4.7226	7.3260e-01	8.7008e-01
89	PAN120136	-6.0573	-3.0818	-5.0135	5.7661e-01	8.7009e-01
90	PAN125136	-5.8694	-4.1146	-5.0927	4.3833e-01	8.7009e-01
91	PAN130136	-5.4777	-4.1045	-4.8643	3.2146e-01	8.7009e-01
92	PAN120048	-12.0895	-10.4874	-11.5021	4.4547e-01	8.7048e-01
93	PAN130048	-10.6575	-8.2924	-9.5574	5.6214e-01	8.7033e-01
94	PAN120224	-11.4424	-8.0092	-10.2858	6.6572e-01	8.7038e-01
95	PAN130224	-10.4800	-8.1149	-9.7964	5.4254e-01	8.7034e-01
96	PAN120312	-11.4938	-8.6709	-10.2410	5.4192e-01	8.7038e-01
97	PAN130312	-10.5137	-8.4538	-9.7020	4.9366e-01	8.7034e-01
98	PAB000136	60.1363	60.4567	60.2974	5.3320e-02	5.9927e-01
99	PAB100136	63.8425	64.1171	63.9944	6.4367e-02	6.0166e-01
100	PAB125136	64.9076	65.1365	65.0184	5.6323e-02	6.0235e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.8831	60.3713	60.1101	8.8954e-02	7.6491e-01
102	PRV000001	19.9778	20.0998	19.9900	3.6993e-02	7.5166e-01
103	PSR000001	65.1883	65.4325	65.2347	6.4735e-02	7.6753e-01
104	PFM000001	0.9824	1.2570	1.1179	5.3095e-02	5.0001e-01
105	PAN000136	-139.3092	-135.6471	-136.7915	7.2379e-01	4.9319e+00
106	PFM000002	1.1659	1.1994	1.1914	1.0305e-02	2.0002e-01
107	EMPTY	-0.0049	0.0000	-0.0045	1.3381e-03	0.0000e+00
108	EMPTY	-10.0000	7.4365	-9.4747	2.5448e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0011	2.0432e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0003	1.1714e-03	0.0000e+00
112	VPW000001	102.5240	103.3053	102.8326	1.5828e-01	1.0182e+00
113	VPW000002	119.3735	119.9594	119.7173	1.3416e-01	1.0826e+00
114	VPW000003	147.6938	148.2798	147.9829	1.7308e-01	1.2019e+00
115	VPW000004	105.1645	105.9458	105.6333	1.5282e-01	1.0285e+00
116	VPW000005	140.0691	140.6550	140.3973	1.2750e-01	1.1686e+00
117	VPW000006	146.4769	147.0628	146.8363	1.4423e-01	1.1968e+00
118	IPW000001	551.0864	558.8958	553.8977	1.9388e+00	9.2064e+00
119	IPW000002	1288.2131	1296.0183	1291.6086	1.6163e+00	1.3028e+01
120	IPW000003	1315.2748	1321.1248	1318.7852	1.6714e+00	1.3197e+01
121	IPW000004	381.5636	384.0050	382.8820	4.8578e-01	3.6262e+00
122	IPW000005	253.3175	255.2704	254.2939	3.5565e-01	2.8347e+00
123	IPW000006	266.2166	268.1697	266.9687	4.0924e-01	2.9066e+00
124	EMPTY	-0.0342	-0.0146	-0.0237	4.0685e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0150	2.3839e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0201	3.5072e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.2133e-03	0.0000e+00
128	IHT000001	130.2960	132.6397	131.6162	5.1230e-01	4.3061e+00
129	IHT000002	129.8640	132.2078	131.0789	5.2392e-01	4.3044e+00
130	IHT000003	128.9551	131.1035	129.9941	5.1816e-01	4.3011e+00
131	IHT000004	130.9082	133.4473	132.2441	5.7231e-01	4.3080e+00
132	IHT000005	129.2556	131.5993	130.4704	5.4001e-01	4.3026e+00
133	IHT000006	124.9963	127.3400	126.1681	4.9284e-01	4.2897e+00
134	IHT000007	131.5880	133.7365	132.5450	4.6897e-01	4.3089e+00
135	IHT000008	130.2584	132.4068	131.3482	4.8342e-01	4.3053e+00
136	IHT000009	129.9016	132.0500	130.9132	5.0020e-01	4.3039e+00
137	IHT000010	129.9279	131.8810	130.9396	4.4589e-01	4.3040e+00
138	IHT000011	131.2200	132.7825	132.0285	4.1009e-01	4.3073e+00
139	IHT000012	130.2171	131.9749	131.0999	3.9309e-01	4.3045e+00
140	IHT000013	91.4213	93.3744	92.5268	3.9971e-01	4.2031e+00
141	IHT000014	127.0808	128.8387	128.1317	3.6993e-01	4.2956e+00
142	IHT000015	93.9528	96.1013	95.2341	4.3074e-01	4.2092e+00
143	IHT000016	88.2174	90.7565	89.6431	4.5549e-01	4.1969e+00
144	IHT000017	103.2940	105.8331	104.8135	5.2243e-01	4.2319e+00
145	IHT000018	106.2275	108.7665	107.6181	5.3327e-01	4.2389e+00
146	IHT000019	107.2303	109.3788	108.1210	4.8353e-01	4.2402e+00
147	IHT000020	105.3861	107.9252	106.3549	4.9750e-01	4.2357e+00
148	IHT000021	-2.9860	0.1390	-1.7634	6.2616e-01	4.1000e+00
149	IHT000022	92.2363	94.7754	93.2441	5.0124e-01	4.2047e+00
150	IHT000023	104.7664	107.1101	105.7156	5.0994e-01	4.2341e+00
151	IHT000024	69.9106	72.2543	70.9302	4.9957e-01	4.1609e+00
152	IHT000025	102.2724	104.4208	103.2334	5.0198e-01	4.2280e+00
153	IHT000026	104.3044	106.6481	105.5856	5.2223e-01	4.2338e+00
154	IHT000027	89.4719	92.0110	90.7375	5.2828e-01	4.1992e+00
155	IHT000028	90.5987	93.1378	91.6573	5.2658e-01	4.2012e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4162	107.7599	106.5451	5.1492e-01	4.2362e+00
157	IHT000030	107.9214	110.0698	109.1284	4.8918e-01	4.2427e+00
158	IHT000031	106.0021	108.1506	107.0802	4.9950e-01	4.2375e+00
159	IHT000032	107.0425	108.9957	107.9409	4.6186e-01	4.2397e+00
160	IHT000033	106.8284	108.9769	107.8792	5.0361e-01	4.2396e+00
161	IHT000034	93.7387	95.8872	94.6020	4.3600e-01	4.2077e+00
162	IHT000035	123.5727	125.3305	124.4712	4.2864e-01	4.2848e+00
163	IHT000036	92.4204	94.5688	93.2642	4.1655e-01	4.2047e+00

Test: Feb05_11

sum2

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Page: 1

Velocity 1 = 2.7940 (ft/sec) (+/- 22.0042 %)

Velocity 2 = 2.8331 (ft/sec) (+/- 8.3562 %)

Pressure drop = -4.9404 (psi)

Tsat in = 292.7592 (deg F) Tsat out = 297.8635 (deg F)

Phi inner = 99.5649 (kBtu/hr-ft2) (+/- 1.5729 %)

Phi outer = 100.6241 (kBtu/hr-ft2) (+/- 1.5510 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.9284	76.5654	76.2318	1.7338e-01	1.9000e+00
1	TRF000002	76.3524	76.7749	76.5249	1.4088e-01	1.9000e+00
2	TFM000001	85.5285	86.5776	86.0940	1.9951e-01	1.9002e+00
3	TIN000001	85.5872	86.3232	86.0164	1.6315e-01	1.9002e+00
4	TRV000001	86.4746	87.2083	86.8592	1.7550e-01	1.9002e+00
5	TSR000001	152.0613	155.5365	154.0477	9.7438e-01	1.9048e+00
6	EMPTY	37.9974	38.9168	38.3821	2.6700e-01	1.9010e+00
7	TAO050136	242.8780	243.8136	243.2794	2.1765e-01	1.9201e+00
8	TAO070136	255.2333	256.4483	255.9428	2.5876e-01	1.9232e+00
9	TAO080136	256.8399	257.4893	257.1698	1.7238e-01	1.9235e+00
10	TAO090136	228.1891	228.8519	228.5118	1.6816e-01	1.9169e+00
11	TAO100136	286.9980	288.1862	287.6863	2.7978e-01	1.9317e+00
12	TAO105136	291.3533	293.0860	292.3808	4.2227e-01	1.9330e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	311.0760	312.2545	311.5927	2.8420e-01	1.9389e+00
15	EMPTY	31.5371	42.8139	37.6710	3.7369e+00	1.9010e+00
16	TAO125136	321.6956	322.6801	322.1955	2.0980e-01	1.9424e+00
17	EMPTY	44.6423	45.5552	45.2339	1.9718e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5665	1.1512e-01	1.9012e+00
19	TAO130048	303.1601	304.5145	303.9911	2.4518e-01	1.9365e+00
20	TAO120224	308.2022	309.2869	308.9013	2.4392e-01	1.9381e+00
21	EMPTY	39.6057	40.2940	39.9148	1.6594e-01	1.9011e+00
22	TAO120312	318.0443	319.3053	318.6379	2.7518e-01	1.9412e+00
23	TAO130312	307.6003	308.4130	308.0810	1.8920e-01	1.9378e+00
24	EMPTY	39.1464	40.0646	39.6150	2.1958e-01	1.9011e+00
25	TRT070000	243.7992	246.2517	244.6981	5.1368e-01	1.9205e+00
26	TRT100000	308.4584	309.6323	309.0574	2.5576e-01	1.9381e+00
27	TRT120000	316.4734	317.5536	317.0155	2.0988e-01	1.9407e+00
28	TRT125000	316.8372	317.5555	317.1468	1.6881e-01	1.9407e+00
29	EMPTY	39.8352	40.2940	40.1255	1.2190e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6665	1.9754e-01	1.9011e+00
31	TAF050136	156.6815	159.9481	158.5066	7.0432e-01	1.9053e+00
32	TAF070136	178.6366	181.8463	180.6556	6.7636e-01	1.9082e+00
33	TAF080136	190.9275	193.7192	192.0302	6.1017e-01	1.9100e+00
34	TAF090136	202.2784	206.2185	204.0031	9.8280e-01	1.9121e+00
35	TAF100136	219.5890	223.3046	221.3592	1.1231e+00	1.9154e+00
36	TAF105136	229.8355	234.1412	231.7422	1.1588e+00	1.9175e+00
37	TAF110136	241.9281	251.2382	246.7650	2.7556e+00	1.9209e+00
38	TAF115136	249.0197	252.2812	250.4562	7.6301e-01	1.9218e+00
39	TAF120136	257.0236	258.5964	257.7336	3.6282e-01	1.9236e+00
40	TAF125136	263.7498	266.8757	264.9383	5.4979e-01	1.9254e+00
41	TAF130136	270.0026	271.8429	271.0560	4.3212e-01	1.9270e+00
42	TAF120048	255.7929	258.5092	256.9778	6.2733e-01	1.9234e+00
43	TAF130048	266.6022	269.0041	267.5435	4.9517e-01	1.9261e+00
44	TAF120224	251.9876	253.9418	253.1196	4.4443e-01	1.9225e+00
45	TAF130224	264.3633	266.3170	265.3829	4.9565e-01	1.9255e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0068	2.0436e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8727	1.4321e-01	1.9011e+00
48	TAI130048	319.5371	320.1666	319.8492	1.4809e-01	1.9416e+00
49	TAI130136	319.9388	320.6569	320.3746	1.4650e-01	1.9418e+00
50	TAI130224	308.5240	309.1578	308.8565	1.5392e-01	1.9381e+00
51	TAI130312	316.3597	317.0808	316.6871	1.4566e-01	1.9406e+00
52	TRR130000	149.0535	150.4484	149.6780	3.4195e-01	1.9043e+00
53	TSI000001	43.0295	43.6817	43.3780	1.8156e-01	1.9005e+00
54	TSI000002	86.6429	87.7944	87.2902	2.9416e-01	1.9002e+00
55	TSO000001	40.6112	41.4869	40.9889	1.9846e-01	1.9006e+00
56	TSO000002	58.9151	59.6670	59.2240	2.0518e-01	1.9001e+00
57	TAF020136	114.0590	116.8476	115.7794	5.5168e-01	1.9014e+00
58	EMPTY	42.8139	43.5000	43.2153	2.6625e-01	1.9013e+00
59	TAF130312	274.0947	276.0237	274.9982	4.2820e-01	1.9281e+00
60	EMPTY	5.0977	5.1123	5.1055	4.5474e-03	0.0000e+00
61	EMPTY	5.0781	5.0928	5.0848	3.1032e-03	0.0000e+00
62	EMPTY	5.0635	5.0732	5.0675	2.5748e-03	0.0000e+00
63	EMPTY	5.0537	5.0635	5.0569	2.7388e-03	0.0000e+00
64	EMPTY	2.3389	2.3438	2.3393	1.3508e-03	0.0000e+00
65	EMPTY	2.3438	2.3535	2.3486	1.9934e-03	0.0000e+00
66	EMPTY	2.3486	2.3584	2.3533	1.9832e-03	0.0000e+00
67	EMPTY	2.3584	2.3633	2.3595	2.0584e-03	0.0000e+00
68	EMPTY	2.3584	2.3682	2.3634	1.8619e-03	0.0000e+00
69	EMPTY	2.3682	2.3730	2.3698	2.3135e-03	0.0000e+00
70	EMPTY	2.3730	2.3779	2.3753	2.4621e-03	0.0000e+00
71	EMPTY	2.3877	2.3926	2.3889	2.1215e-03	0.0000e+00
72	EMPTY	2.3877	2.3975	2.3919	2.2287e-03	0.0000e+00
73	EMPTY	2.3926	2.4023	2.3997	2.6485e-03	0.0000e+00
74	EMPTY	2.4023	2.4072	2.4046	2.4621e-03	0.0000e+00
75	EMPTY	2.4072	2.4170	2.4118	1.8400e-03	0.0000e+00
76	EMPTY	2.4121	2.4219	2.4159	2.2871e-03	0.0000e+00
77	EMPTY	2.4219	2.4316	2.4252	2.5191e-03	0.0000e+00
78	EMPTY	2.4365	2.4414	2.4378	2.1781e-03	0.0000e+00
79	EMPTY	2.4512	2.4561	2.4527	2.2737e-03	0.0000e+00
80	PAN020136	-19.3316	-16.5850	-17.6048	6.1386e-01	8.7111e-01
81	PAN050136	-37.1883	-34.1366	-35.3511	8.1695e-01	1.6823e+00
82	PAN070136	-25.7092	-19.4531	-24.0603	1.8944e+00	8.7208e-01
83	PAN080136	-11.0390	-4.4015	-6.3851	1.8759e+00	8.7015e-01
84	PAN090136	-13.2016	-11.9046	-12.9960	2.6254e-01	8.7061e-01
85	PAN100136	-11.1740	-3.3157	-8.5955	1.7359e+00	8.7027e-01
86	PAN105136	-6.1702	-3.3473	-5.7062	5.5974e-01	8.7012e-01
87	PAN110136	-6.0953	-3.3487	-4.8419	7.2763e-01	8.7008e-01
88	PAN115136	-5.4703	-3.7155	-4.7416	4.6774e-01	8.7008e-01
89	PAN120136	-6.2861	-3.4633	-5.1075	6.4814e-01	8.7009e-01
90	PAN125136	-6.0983	-3.4280	-5.1002	5.9625e-01	8.7009e-01
91	PAN130136	-5.3252	-3.1126	-4.5077	5.8602e-01	8.7007e-01
92	PAN120048	-12.0132	-10.4874	-11.2799	4.2416e-01	8.7046e-01
93	PAN130048	-10.8864	-8.2161	-9.8043	5.4254e-01	8.7035e-01
94	PAN120224	-11.8239	-8.6959	-10.0022	6.8782e-01	8.7036e-01
95	PAN130224	-10.4037	-8.4201	-9.7560	4.9496e-01	8.7034e-01
96	PAN120312	-11.1123	-9.2050	-10.2684	4.0950e-01	8.7038e-01
97	PAN130312	-10.2849	-8.4538	-9.5811	4.5889e-01	8.7033e-01
98	PAB000136	59.9989	60.3194	60.1363	7.8178e-02	5.9917e-01
99	PAB100136	63.4762	63.9340	63.8163	9.7106e-02	6.0154e-01
100	PAB125136	64.7245	65.0450	64.8787	7.1587e-02	6.0225e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.6389	60.1272	59.9553	1.1929e-01	7.6483e-01
102	PRV0000001	19.7336	19.8557	19.8158	5.7837e-02	7.5163e-01
103	PSR0000001	64.9442	65.1883	65.0463	6.7539e-02	7.6743e-01
104	PFM0000001	0.9824	1.3486	1.1505	6.8274e-02	5.0001e-01
105	PAN000136	-139.7669	-135.1893	-136.7775	9.8047e-01	4.9319e+00
106	PFM0000002	1.1491	1.2162	1.1840	2.5364e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	-0.0033	2.8866e-03	0.0000e+00
108	EMPTY	-10.0000	-8.5010	-9.9694	2.1415e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0016	2.5191e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0016	2.3135e-03	0.0000e+00
112	VPW0000001	102.3287	102.9147	102.6595	1.6049e-01	1.0176e+00
113	VPW0000002	119.3735	119.9594	119.6725	1.2028e-01	1.0824e+00
114	VPW0000003	147.6938	148.0844	147.8971	1.1933e-01	1.2015e+00
115	VPW0000004	105.3598	105.9458	105.5990	1.1462e-01	1.0284e+00
116	VPW0000005	139.8738	140.4597	140.2406	1.5251e-01	1.1680e+00
117	VPW0000006	146.2816	146.6722	146.5527	1.1146e-01	1.1955e+00
118	IPW0000001	560.8481	570.6098	564.7528	2.4566e+00	9.2475e+00
119	IPW0000002	1270.6517	1284.3107	1275.5497	3.2632e+00	1.2929e+01
120	IPW0000003	1303.5748	1309.4248	1306.9976	1.2917e+00	1.3123e+01
121	IPW0000004	582.5402	385.9581	383.8854	9.0547e-01	3.6328e+00
122	IPW0000005	253.3175	254.7822	253.9651	3.7802e-01	2.8329e+00
123	IPW0000006	264.2635	265.7283	264.8416	3.9459e-01	2.8944e+00
124	EMPTY	-0.0244	-0.0098	-0.0203	3.7752e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.9629e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0171	4.2430e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0187	3.2061e-03	0.0000e+00
128	IHT0000001	130.6866	133.2257	131.7827	6.1352e-01	4.3066e+00
129	IHT0000002	130.0594	132.9890	131.1715	5.7802e-01	4.3047e+00
130	IHT0000003	128.9551	131.6894	130.1110	5.5363e-01	4.3015e+00
131	IHT0000004	131.2988	133.8379	132.3312	5.7636e-01	4.3083e+00
132	IHT0000005	129.6462	131.7946	130.5908	5.2943e-01	4.3030e+00
133	IHT0000006	125.3869	127.5353	126.2638	5.1847e-01	4.2900e+00
134	IHT0000007	131.7833	133.9318	132.6483	5.2134e-01	4.3092e+00
135	IHT0000008	130.6490	132.7975	131.4023	5.3191e-01	4.3054e+00
136	IHT0000009	130.0969	132.0500	130.9618	5.4080e-01	4.3041e+00
137	IHT0000010	130.1232	132.2716	131.0599	5.6940e-01	4.3044e+00
138	IHT0000011	131.2200	132.9778	131.9413	4.7038e-01	4.3071e+00
139	IHT0000012	130.2171	131.9749	131.0422	4.0709e-01	4.3043e+00
140	IHT0000013	91.8119	93.5697	92.6729	3.9652e-01	4.2034e+00
141	IHT0000014	127.4715	129.0340	128.2528	3.5210e-01	4.2959e+00
142	IHT0000015	94.5388	96.1013	95.3120	3.4054e-01	4.2093e+00
143	IHT0000016	88.8033	90.3658	89.6124	3.6756e-01	4.1968e+00
144	IHT0000017	104.2706	107.9815	106.4668	8.0186e-01	4.2360e+00
145	IHT0000018	106.8134	108.7665	107.8817	4.9007e-01	4.2396e+00
146	IHT0000019	107.6209	108.9881	108.3464	3.9063e-01	4.2407e+00
147	IHT0000020	105.5814	107.7299	106.6139	4.6322e-01	4.2363e+00
148	IHT0000021	-2.5954	-0.2517	-1.4196	5.5169e-01	4.1000e+00
149	IHT0000022	92.4316	94.3848	93.4441	4.5224e-01	4.2051e+00
150	IHT0000023	104.9617	107.1101	105.9502	4.5876e-01	4.2347e+00
151	IHT0000024	70.3012	72.4497	71.1702	4.6675e-01	4.1613e+00
152	IHT0000025	102.2724	104.6161	103.4602	5.0561e-01	4.2285e+00
153	IHT0000026	104.6950	106.8435	105.8430	5.0999e-01	4.2344e+00
154	IHT0000027	89.8625	92.2063	90.8550	5.3315e-01	4.1995e+00
155	IHT0000028	90.5987	92.9425	91.6191	6.7572e-01	4.2011e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8068	107.9552	106.7076	6.0307e-01	4.2366e+00
157	IHT000030	108.1167	110.2652	109.2647	5.5190e-01	4.2431e+00
158	IHT000031	106.0021	108.1506	107.1979	5.3878e-01	4.2378e+00
159	IHT000032	106.8472	109.1910	108.0669	5.8936e-01	4.2400e+00
160	IHT000033	106.8284	109.1722	108.0003	6.0199e-01	4.2399e+00
161	IHT000034	93.5434	95.6918	94.6755	5.1978e-01	4.2079e+00
162	IHT000035	123.3774	125.5258	124.4935	5.7498e-01	4.2848e+00
163	IHT000036	92.4204	94.5688	93.3491	5.3419e-01	4.2049e+00

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Velocity 1 = 0.038700 (ft/sec)

Velocity 2 = 0.008500 (ft/sec)

Pressure Drop = 0.000500 (psi)

Tsat in = 0.177612 (deg F) Tsat out = 0.146393 (deg F)

Phi inner = 0.962494 (kBtu/hr-ft2) Phi outer = 0.334900 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0910	0.1195
1	TRF000002	0.0626	0.0819
2	TFM000001	0.2002	0.2331
3	TIN000001	0.3366	0.3929
4	TRV000001	1.2005	1.3633
5	TSR000001	10.2593	6.2440
6	EMPTY	0.0429	0.1116
7	TAO050136	0.1242	0.0511
8	TAO070136	0.6369	0.2482
9	TAO080136	0.8175	0.3189
10	TAO090136	7.5191	3.4024
11	TAO100136	0.9108	0.3176
12	TAO105136	1.0273	0.3526
13	EMPTY	0.0000	0.0000
14	TAO115136	0.5594	0.1799
15	EMPTY	0.3144	0.8416
16	TAO125136	0.2677	0.0832
17	EMPTY	0.0438	0.0969
18	EMPTY	0.0479	0.1151
19	TAO130048	0.7623	0.2514
20	TAO120224	0.1098	0.0356
21	EMPTY	0.0337	0.0845
22	TAO120312	0.1775	0.0557
23	TAO130312	0.4843	0.1574
24	EMPTY	0.0366	0.0923
25	TRT070000	4.4452	1.7842
26	TRT100000	1.1400	0.3702
27	TRT120000	0.3471	0.1094
28	TRT125000	0.5343	0.1688
29	EMPTY	0.0218	0.0543
30	EMPTY	0.0080	0.0202
31	TAF050136	0.5415	0.3428
32	TAF070136	0.8008	0.4452
33	TAF080136	1.0217	0.5349
34	TAF090136	1.0631	0.5238
35	TAF100136	2.3079	1.0536
36	TAF105136	1.8593	0.8088
37	TAF110136	2.7154	1.1126
38	TAF115136	2.1262	0.8562
39	TAF120136	2.0356	0.7961
40	TAF125136	2.0311	0.7726
41	TAF130136	1.9786	0.7353
42	TAF120048	1.1588	0.4530
43	TAF130048	1.4733	0.5537
44	TAF120224	1.4040	0.5578
45	TAF130224	1.2798	0.4846

#	Name	Abs Diff	%Diff
46	EMPTY	0.0646	0.1703
47	EMPTY	0.0467	0.1173
48	TAI130048	0.5277	0.1653
49	TAI130136	0.6429	0.2011
50	TAI130224	0.1529	0.0495
51	TAI130312	0.1652	0.0522
52	TRR130000	3.7558	2.4478
53	TSI000001	0.4391	1.0226
54	TSI000002	1.7195	2.0094
55	TSO000001	0.3556	0.8751
56	TSO000002	0.4165	0.7082
57	TAF020136	1.0793	0.9410
58	EMPTY	0.1087	0.2522
59	TAF130312	1.1394	0.4161
60	EMPTY	0.0295	0.5812
61	EMPTY	0.0289	0.5716
62	EMPTY	0.0302	0.5995
63	EMPTY	0.0286	0.5688
64	EMPTY	0.0106	0.4552
65	EMPTY	0.0105	0.4491
66	EMPTY	0.0102	0.4353
67	EMPTY	0.0110	0.4684
68	EMPTY	0.0133	0.5659
69	EMPTY	0.0113	0.4791
70	EMPTY	0.0120	0.5078
71	EMPTY	0.0115	0.4837
72	EMPTY	0.0122	0.5127
73	EMPTY	0.0119	0.4984
74	EMPTY	0.0120	0.5015
75	EMPTY	0.0115	0.4791
76	EMPTY	0.0124	0.5159
77	EMPTY	0.0120	0.4973
78	EMPTY	0.0113	0.4657
79	EMPTY	0.0113	0.4628
80	PAN020136	0.0391	0.2216
81	PAN050136	0.5006	1.3963
82	PAN070136	0.7162	3.0680
83	PAN080136	0.4288	6.2930
84	PAN090136	0.0447	0.3451
85	PAN100136	1.2677	12.8528
86	PAN105136	0.3356	6.2488
87	PAN110136	0.0070	0.1448
88	PAN115136	0.0190	0.4023
89	PAN120136	0.0940	1.8749
90	PAN125136	0.0075	0.1473
91	PAN130136	0.3566	7.3310
92	PAN120048	0.2222	1.9318
93	PAN130048	0.2469	2.5833
94	PAN120224	0.2836	2.7572
95	PAN130224	0.0404	0.4124
96	PAN120312	0.0274	0.2676
97	PAN130312	0.1209	1.2461
98	PAB000136	0.1611	0.2672
99	PAB100136	0.1781	0.2783
100	PAB125136	0.1397	0.2149

#	Name	Abs Diff	%Diff
101	PIN000001	0.1548	0.2575
102	PRV000001	0.1742	0.8714
103	PSR000001	0.1884	0.2888
104	PFM000001	0.0326	2.9162
105	PAN000136	0.0140	0.0102
106	PFM000002	0.0074	0.6211
107	EMPTY	0.0012	26.6667
108	EMPTY	0.4947	5.2213
109	EMPTY	0.0005	45.4545
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0013	433.3333
112	VPW000001	0.1731	0.1683
113	VPW000002	0.0448	0.0374
114	VPW000003	0.0858	0.0580
115	VPW000004	0.0343	0.0325
116	VPW000005	0.1567	0.1116
117	VPW000006	0.2836	0.1931
118	IPW000001	10.8551	1.9598
119	IPW000002	16.0590	1.2433
120	IPW000003	11.7876	0.8938
121	IPW000004	1.0034	0.2621
122	IPW000005	0.3288	0.1293
123	IPW000006	2.1271	0.7968
124	EMPTY	0.0034	14.3460
125	EMPTY	0.0008	5.3333
126	EMPTY	0.0030	14.9254
127	EMPTY	0.0024	14.7239
128	IHT000001	0.1665	0.1265
129	IHT000002	0.0926	0.0706
130	IHT000003	0.1169	0.0899
131	IHT000004	0.0871	0.0659
132	IHT000005	0.1204	0.0923
133	IHT000006	0.0957	0.0759
134	IHT000007	0.1033	0.0779
135	IHT000008	0.0541	0.0412
136	IHT000009	0.0486	0.0371
137	IHT000010	0.1203	0.0919
138	IHT000011	0.0872	0.0660
139	IHT000012	0.0577	0.0440
140	IHT000013	0.1461	0.1579
141	IHT000014	0.1211	0.0945
142	IHT000015	0.0779	0.0818
143	IHT000016	0.0307	0.0342
144	IHT000017	1.6533	1.5774
145	IHT000018	0.2636	0.2449
146	IHT000019	0.2254	0.2085
147	IHT000020	0.2590	0.2435
148	IHT000021	0.3438	19.4964
149	IHT000022	0.2000	0.2145
150	IHT000023	0.2346	0.2219
151	IHT000024	0.2400	0.3384
152	IHT000025	0.2268	0.2197
153	IHT000026	0.2574	0.2438
154	IHT000027	0.1175	0.1295
155	IHT000028	0.0382	0.0417

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1625	0.1525
157	IHT000030	0.1363	0.1249
158	IHT000031	0.1177	0.1099
159	IHT000032	0.1260	0.1167
160	IHT000033	0.1211	0.1122
161	IHT000034	0.0735	0.0777
162	IHT000035	0.0223	0.0179
163	IHT000036	0.0849	0.0910

Velocity 1 = 2.5930 (ft/sec) (+/- 25.5901 %)
Velocity 2 = 2.6086 (ft/sec) (+/- 9.6595 %)
Pressure drop = -4.9508 (psi)
Tsats in = 292.9621 (deg F) Tsats out = 298.1248 (deg F)
Phi inner = 100.8755 (kBtu/hr-ft2) (+/- 1.5695 %)
Phi outer = 100.8874 (kBtu/hr-ft2) (+/- 1.5516 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.1408	76.7777	76.4678	1.8304e-01	1.9000e+00
1	TRF000002	76.5637	76.9861	76.8171	1.2801e-01	1.9000e+00
2	TFM000001	85.0056	85.7397	85.3599	1.8477e-01	1.9002e+00
3	TIN000001	84.7457	85.4820	85.1812	1.5766e-01	1.9002e+00
4	TRV000001	85.9515	86.8947	86.5407	2.3557e-01	1.9002e+00
5	TSR000001	158.7048	160.1884	159.4594	3.3207e-01	1.9054e+00
6	EMPTY	37.9974	38.9168	38.4066	2.5130e-01	1.9010e+00
7	TAO050136	249.2192	250.2440	249.8029	1.9181e-01	1.9217e+00
8	TAO070136	261.3034	262.3286	261.8232	2.2506e-01	1.9246e+00
9	TAO080136	265.3304	266.1616	265.8455	1.9816e-01	1.9257e+00
10	TAO090136	237.8018	238.5541	238.1350	1.7631e-01	1.9190e+00
11	TAO100136	294.1096	295.2019	294.6942	2.3627e-01	1.9337e+00
12	TAO105136	298.9090	300.2720	299.5323	3.4576e-01	1.9352e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	315.2415	316.0555	315.6417	1.9758e-01	1.9402e+00
15	EMPTY	31.5371	42.3562	37.3154	3.3349e+00	1.9009e+00
16	TAO125136	323.2169	324.4660	323.9819	2.7312e-01	1.9430e+00
17	EMPTY	44.6423	45.5552	45.2312	2.3093e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5777	1.1336e-01	1.9012e+00
19	TAO130048	307.4890	308.6595	308.1244	3.3121e-01	1.9378e+00
20	TAO120224	312.0861	313.4395	312.6040	2.6152e-01	1.9392e+00
21	EMPTY	39.6057	40.2940	39.9958	1.6874e-01	1.9011e+00
22	TAO120312	322.3650	323.7132	323.1291	2.9910e-01	1.9427e+00
23	TAO130312	310.5746	311.7460	311.2254	2.4177e-01	1.9388e+00
24	EMPTY	39.3761	40.0646	39.6607	1.8293e-01	1.9011e+00
25	TRT070000	266.4053	268.5454	267.5083	4.6412e-01	1.9261e+00
26	TRT100000	317.3715	318.1809	317.7619	2.0272e-01	1.9409e+00
27	TRT120000	321.9555	322.6736	322.3738	1.6085e-01	1.9424e+00
28	TRT125000	319.3412	320.0586	319.6910	1.8576e-01	1.9415e+00
29	EMPTY	39.8352	40.2940	40.1335	1.1587e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6378	1.9680e-01	1.9011e+00
31	TAF050136	162.9104	165.5701	164.0788	6.2026e-01	1.9060e+00
32	TAF070136	188.3343	190.6535	189.0989	4.9807e-01	1.9095e+00
33	TAF080136	198.7062	201.2924	199.9471	5.6414e-01	1.9113e+00
34	TAF090136	213.0159	214.9263	213.9504	5.4778e-01	1.9139e+00
35	TAF100136	230.3293	232.2226	231.3347	4.0382e-01	1.9175e+00
36	TAF105136	241.5051	244.4830	242.8848	5.5063e-01	1.9200e+00
37	TAF110136	254.2991	266.6725	263.1125	3.2778e+00	1.9250e+00
38	TAF115136	262.5781	266.8270	264.3654	7.1900e-01	1.9253e+00
39	TAF120136	271.3962	274.0555	272.7226	5.9747e-01	1.9275e+00
40	TAF125136	281.2301	283.5076	282.2134	5.5910e-01	1.9301e+00
41	TAF130136	290.5972	293.6900	292.0039	7.5763e-01	1.9329e+00
42	TAF120048	267.0941	269.7924	268.3988	6.1464e-01	1.9263e+00
43	TAF130048	278.5759	281.1440	279.8032	4.8036e-01	1.9294e+00
44	TAF120224	264.8774	267.2786	265.9290	5.0258e-01	1.9257e+00
45	TAF130224	276.5108	278.9102	277.5351	5.5432e-01	1.9288e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0664	2.2874e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9866	1.4371e-01	1.9011e+00
48	TAI130048	321.8732	322.5020	322.2414	1.3246e-01	1.9424e+00
49	TAI130136	323.4288	324.3244	323.8568	1.9337e-01	1.9429e+00
50	TAI130224	309.9729	310.6964	310.3292	1.5009e-01	1.9385e+00
51	TAI130312	320.0510	320.6806	320.3552	1.6041e-01	1.9418e+00
52	TRR130000	151.5421	153.1330	152.3247	3.6209e-01	1.9046e+00
53	TSI000001	43.0308	43.9000	43.5671	1.9308e-01	1.9005e+00
54	TSI000002	87.7937	89.4669	88.7750	3.8137e-01	1.9002e+00
55	TSO000001	40.6108	41.7040	41.1027	2.1103e-01	1.9006e+00
56	TSO000002	59.5588	60.5249	60.1022	2.5411e-01	1.9001e+00
57	TAF020136	115.8137	119.2151	117.3095	7.7063e-01	1.9015e+00
58	EMPTY	42.8139	43.7285	43.2256	2.3100e-01	1.9013e+00
59	TAF130312	291.2907	294.0197	292.2792	5.9082e-01	1.9330e+00
60	EMPTY	5.5469	5.5762	5.5563	7.0338e-03	0.0000e+00
61	EMPTY	5.5225	5.5420	5.5319	5.3498e-03	0.0000e+00
62	EMPTY	5.4980	5.5225	5.5095	5.3679e-03	0.0000e+00
63	EMPTY	5.4834	5.5029	5.4954	5.6849e-03	0.0000e+00
64	EMPTY	2.5293	2.5391	2.5330	2.3261e-03	0.0000e+00
65	EMPTY	2.5342	2.5439	2.5405	3.3087e-03	0.0000e+00
66	EMPTY	2.5391	2.5488	2.5435	3.4527e-03	0.0000e+00
67	EMPTY	2.5439	2.5537	2.5495	3.8219e-03	0.0000e+00
68	EMPTY	2.5439	2.5537	2.5502	3.8257e-03	0.0000e+00
69	EMPTY	2.5488	2.5635	2.5565	3.1335e-03	0.0000e+00
70	EMPTY	2.5537	2.5635	2.5603	3.5030e-03	0.0000e+00
71	EMPTY	2.5684	2.5781	2.5726	3.6924e-03	0.0000e+00
72	EMPTY	2.5684	2.5781	2.5735	3.8725e-03	0.0000e+00
73	EMPTY	2.5732	2.5879	2.5804	3.3029e-03	0.0000e+00
74	EMPTY	2.5781	2.5879	2.5839	3.3728e-03	0.0000e+00
75	EMPTY	2.5830	2.5928	2.5896	2.8946e-03	0.0000e+00
76	EMPTY	2.5879	2.5977	2.5913	3.1583e-03	0.0000e+00
77	EMPTY	2.5977	2.6025	2.6001	2.4662e-03	0.0000e+00
78	EMPTY	2.6074	2.6172	2.6116	3.2733e-03	0.0000e+00
79	EMPTY	2.6221	2.6318	2.6249	2.6267e-03	0.0000e+00
80	PAN020136	-17.8820	-17.4242	-17.6302	1.1764e-01	8.7112e-01
81	PAN050136	-33.9840	-32.7633	-33.2668	2.8795e-01	1.6821e+00
82	PAN070136	-18.9954	-17.6221	-18.4186	3.3244e-01	8.7122e-01
83	PAN080136	-14.0908	-13.4041	-13.8695	1.7926e-01	8.7069e-01
84	PAN090136	-9.0817	-7.5558	-8.2028	3.4267e-01	8.7024e-01
85	PAN100136	-12.0895	-9.4192	-10.9481	5.6507e-01	8.7043e-01
86	PAN105136	-6.1702	-6.0176	-6.0740	4.5750e-02	8.7013e-01
87	PAN110136	-3.1199	-0.6785	-1.9831	4.3220e-01	8.7001e-01
88	PAN115136	-7.4539	-7.2250	-7.3395	4.9348e-02	8.7019e-01
89	PAN120136	-6.9728	-0.7167	-4.5283	1.6431e+00	8.7007e-01
90	PAN125136	-6.0220	-2.9702	-5.0912	8.4171e-01	8.7009e-01
91	PAN130136	-4.4859	-0.4423	-2.5313	9.1577e-01	8.7002e-01
92	PAN120048	-12.0895	-7.5119	-11.0779	1.2098e+00	8.7044e-01
93	PAN130048	-9.8946	-4.9355	-7.8224	1.1487e+00	8.7022e-01
94	PAN120224	-13.6550	-9.0773	-11.2151	1.0493e+00	8.7045e-01
95	PAN130224	-9.1067	-4.7579	-7.6815	9.1960e-01	8.7021e-01
96	PAN120312	-12.7145	-2.4911	-8.2528	2.1373e+00	8.7024e-01
97	PAN130312	-10.5611	-6.2413	-9.0153	9.0361e-01	8.7029e-01
98	PAB000136	60.1820	60.5025	60.3203	8.5008e-02	5.9928e-01
99	PAB100136	63.6593	64.0713	63.8461	9.0538e-02	6.0156e-01
100	PAB125136	64.9534	65.3196	65.1283	8.5610e-02	6.0242e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.8831	60.6155	60.2859	1.2874e-01	7.6499e-01
102	PRV000001	19.8557	19.9778	19.9192	6.1605e-02	7.5165e-01
103	PSR000001	65.1883	65.4325	65.2493	6.6404e-02	7.6753e-01
104	PFM000001	0.8908	1.0739	0.9861	6.6587e-02	5.0001e-01
105	PAN000136	-140.6825	-132.4427	-137.0661	2.2583e+00	4.9319e+00
106	PFM000002	0.9645	1.0316	0.9984	2.0196e-02	2.0002e-01
107	EMPTY	-0.0049	0.0000	-0.0044	1.4797e-03	0.0000e+00
108	EMPTY	-10.0000	-7.5684	-9.8353	5.5038e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0023	2.4642e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0024	2.4662e-03	0.0000e+00
112	VPW000001	102.5240	103.1100	102.7193	1.4227e-01	1.0178e+00
113	VPW000002	119.5688	119.9594	119.7017	1.0763e-01	1.0826e+00
114	VPW000003	147.6938	148.2798	147.9595	1.0992e-01	1.2018e+00
115	VPW000004	105.3598	105.7505	105.6372	1.1897e-01	1.0285e+00
116	VPW000005	140.0691	140.6550	140.2879	1.4573e-01	1.1682e+00
117	VPW000006	146.4769	147.0628	146.7933	1.4167e-01	1.1966e+00
118	IPW000001	541.3246	547.1817	544.6436	1.5403e+00	9.1719e+00
119	IPW000002	1296.0183	1301.8721	1298.5546	1.2621e+00	1.3071e+01
120	IPW000003	1321.1248	1326.9747	1324.4003	1.4442e+00	1.3232e+01
121	IPW000004	382.0519	384.0050	382.7746	4.2131e-01	3.6255e+00
122	IPW000005	254.2939	255.2704	254.5478	2.9983e-01	2.8362e+00
123	IPW000006	266.2166	268.1697	267.1249	4.0685e-01	2.9075e+00
124	EMPTY	-0.0293	-0.0098	-0.0212	4.0204e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0146	3.6911e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	3.9162e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0174	2.9856e-03	0.0000e+00
128	IHT000001	130.4913	132.8350	131.6436	5.0571e-01	4.3062e+00
129	IHT000002	129.8640	132.2078	131.0164	5.1788e-01	4.3042e+00
130	IHT000003	128.9551	131.2988	129.9316	4.8808e-01	4.3010e+00
131	IHT000004	131.1035	133.6426	132.1504	4.8770e-01	4.3077e+00
132	IHT000005	129.4509	131.7946	130.4118	5.0198e-01	4.3024e+00
133	IHT000006	125.1916	127.5353	126.0392	4.9538e-01	4.2894e+00
134	IHT000007	131.3927	133.7365	132.4240	5.1906e-01	4.3086e+00
135	IHT000008	130.2584	132.6021	131.1724	5.1515e-01	4.3047e+00
136	IHT000009	129.9016	132.2454	130.7336	4.6322e-01	4.3034e+00
137	IHT000010	130.1232	132.2716	131.1075	5.0062e-01	4.3045e+00
138	IHT000011	131.0246	133.1731	132.1457	4.7155e-01	4.3077e+00
139	IHT000012	130.2171	132.3655	131.1859	5.3227e-01	4.3048e+00
140	IHT000013	91.8119	93.7650	92.6440	4.5645e-01	4.2034e+00
141	IHT000014	127.4715	129.6199	128.2684	4.8140e-01	4.2960e+00
142	IHT000015	94.5388	96.6872	95.2575	4.2396e-01	4.2092e+00
143	IHT000016	88.9987	90.7565	89.6236	4.0434e-01	4.1968e+00
144	IHT000017	105.6378	107.9815	106.8252	5.4224e-01	4.2369e+00
145	IHT000018	107.0087	108.9618	107.8369	4.7607e-01	4.2394e+00
146	IHT000019	107.0350	109.3788	108.3436	4.9166e-01	4.2407e+00
147	IHT000020	105.3861	107.7299	106.5463	4.7582e-01	4.2362e+00
148	IHT000021	-2.9860	-0.2517	-1.5524	5.5046e-01	4.1000e+00
149	IHT000022	92.2363	94.7754	93.3535	4.9291e-01	4.2049e+00
150	IHT000023	104.9617	107.1101	105.9031	4.4414e-01	4.2346e+00
151	IHT000024	70.1059	72.2543	71.1059	4.4053e-01	4.1612e+00
152	IHT000025	102.4677	104.6161	103.4560	4.9507e-01	4.2285e+00
153	IHT000026	104.8903	107.0388	105.8239	5.0268e-01	4.2344e+00
154	IHT000027	89.8625	92.0110	90.8157	5.0012e-01	4.1994e+00
155	IHT000028	90.7940	93.7237	92.1026	5.7352e-01	4.2022e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8068	108.5412	107.2169	5.6122e-01	4.2379e+00
157	IHT000030	108.5073	111.0464	109.8198	5.5669e-01	4.2445e+00
158	IHT000031	106.3927	108.9318	107.6974	5.8319e-01	4.2391e+00
159	IHT000032	107.2378	109.9722	108.5191	5.8681e-01	4.2412e+00
160	IHT000033	107.2190	109.9534	108.4573	5.7265e-01	4.2410e+00
161	IHT000034	93.9340	96.0825	94.9653	4.9448e-01	4.2085e+00
162	IHT000035	123.7680	125.9165	124.7720	5.3816e-01	4.2857e+00
163	IHT000036	92.6157	94.5688	93.6001	5.0986e-01	4.2055e+00

Velocity 1 = 2.5431 (ft/sec) (+/- 26.6294 %)
Velocity 2 = 2.6120 (ft/sec) (+/- 9.6393 %)
Pressure drop = -4.8736 (psi)
Tsats in = 292.9034 (deg F) Tsats out = 298.0162 (deg F)
Phi inner = 99.4747 (kBtu/hr-ft2) (+/- 1.5731 %)
Phi outer = 100.3552 (kBtu/hr-ft2) (+/- 1.5520 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	76.3531	76.9899	76.6130	1.9506e-01	1.9000e+00
1	TRF0000002	76.5637	77.1973	76.9128	1.4003e-01	1.9000e+00
2	TFM0000001	86.4728	87.3118	86.9716	1.8712e-01	1.9002e+00
3	TIN0000001	86.4285	87.1634	86.7839	1.3008e-01	1.9002e+00
4	TRV0000001	87.3122	88.2544	87.8550	1.9309e-01	1.9002e+00
5	TSR0000001	153.1558	156.6276	154.6893	8.6695e-01	1.9048e+00
6	EMPTY	37.9974	38.9168	38.4337	2.3572e-01	1.9010e+00
7	TAO050136	253.4026	254.2394	253.7992	2.0502e-01	1.9226e+00
8	TAO070136	264.1904	265.2138	264.5819	2.2065e-01	1.9253e+00
9	TAO080136	270.1113	271.0316	270.5657	2.1420e-01	1.9269e+00
10	TAO090136	242.2120	243.2431	242.6178	2.7007e-01	1.9200e+00
11	TAO100136	297.4737	298.5643	298.1672	2.5202e-01	1.9348e+00
12	TAO105136	302.9931	304.0812	303.4557	2.6187e-01	1.9364e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	317.1409	318.6763	317.8377	3.2461e-01	1.9409e+00
15	EMPTY	31.5371	43.0426	37.5174	3.4014e+00	1.9009e+00
16	TAO125136	323.3947	324.3779	323.8596	2.2263e-01	1.9429e+00
17	EMPTY	44.8706	45.5552	45.1873	2.1252e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5618	1.3309e-01	1.9012e+00
19	TAO130048	310.2778	311.7182	311.2144	2.6612e-01	1.9388e+00
20	TAO120224	313.8900	315.0615	314.3465	2.4572e-01	1.9398e+00
21	EMPTY	39.8352	40.2940	40.0272	1.5776e-01	1.9011e+00
22	TAO120312	323.5334	324.5222	324.1864	2.6241e-01	1.9430e+00
23	TAO130312	313.8155	314.6246	314.1968	1.5430e-01	1.9398e+00
24	EMPTY	39.3761	40.0646	39.6806	1.8967e-01	1.9011e+00
25	TRT070000	266.2155	270.4991	268.7705	9.4738e-01	1.9264e+00
26	TRT100000	318.4495	319.2581	318.8787	2.1638e-01	1.9413e+00
27	TRT120000	322.4046	323.1224	322.7763	1.7385e-01	1.9426e+00
28	TRT125000	318.5379	319.1655	318.8893	1.4149e-01	1.9413e+00
29	EMPTY	40.0646	40.2940	40.1442	1.1033e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6947	1.9213e-01	1.9011e+00
31	TAF050136	165.1764	168.8152	166.8891	7.5809e-01	1.9063e+00
32	TAF070136	189.0145	193.1599	191.6005	7.9916e-01	1.9099e+00
33	TAF080136	201.6764	203.9669	202.9641	5.4669e-01	1.9119e+00
34	TAF090136	215.1164	218.3573	216.8933	5.9728e-01	1.9145e+00
35	TAF100136	234.2077	236.4743	235.0753	4.3686e-01	1.9183e+00
36	TAF105136	244.9460	248.4693	246.9828	6.8190e-01	1.9210e+00
37	TAF110136	258.9296	272.4589	267.2806	3.7101e+00	1.9260e+00
38	TAF115136	266.7354	269.3161	267.8265	6.0319e-01	1.9262e+00
39	TAF120136	275.2462	278.7218	276.6094	6.1308e-01	1.9285e+00
40	TAF125136	284.7800	288.6853	286.6403	7.8795e-01	1.9314e+00
41	TAF130136	295.4146	298.5900	297.0464	8.3967e-01	1.9344e+00
42	TAF120048	269.8838	273.2282	271.6495	7.4139e-01	1.9272e+00
43	TAF130048	279.5853	282.4269	281.2542	6.6015e-01	1.9298e+00
44	TAF120224	267.8325	271.6095	269.1282	6.8493e-01	1.9265e+00
45	TAF130224	279.3708	282.3211	280.8339	6.6085e-01	1.9297e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0490	2.0059e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8867	1.5723e-01	1.9011e+00
48	TAI130048	322.6811	323.3100	323.0203	1.7504e-01	1.9427e+00
49	TAI130136	323.5188	324.1456	323.8041	1.7310e-01	1.9429e+00
50	TAI130224	310.7869	311.6919	311.2839	1.8839e-01	1.9388e+00
51	TAI130312	321.0404	321.9396	321.4185	1.8255e-01	1.9421e+00
52	TRR130000	155.0199	156.4070	155.7099	3.3982e-01	1.9049e+00
53	TSI000001	43.5733	44.2254	43.8486	1.7606e-01	1.9005e+00
54	TSI000002	90.5106	91.6576	91.1748	2.8627e-01	1.9003e+00
55	TSO000001	40.9387	41.8132	41.4207	2.1850e-01	1.9006e+00
56	TSO000002	60.7393	61.4895	61.1115	1.9221e-01	1.9001e+00
57	TAF020136	118.7011	121.6832	120.1059	6.6392e-01	1.9017e+00
58	EMPTY	42.5851	43.5000	43.0519	2.4686e-01	1.9012e+00
59	TAF130312	294.3838	296.5646	295.4852	5.8930e-01	1.9339e+00
60	EMPTY	5.6250	5.6494	5.6371	6.2325e-03	0.0000e+00
61	EMPTY	5.6006	5.6201	5.6110	4.7800e-03	0.0000e+00
62	EMPTY	5.5811	5.6006	5.5884	3.8759e-03	0.0000e+00
63	EMPTY	5.5664	5.5811	5.5738	3.4702e-03	0.0000e+00
64	EMPTY	2.5635	2.5732	2.5692	2.0781e-03	0.0000e+00
65	EMPTY	2.5684	2.5781	2.5744	2.3440e-03	0.0000e+00
66	EMPTY	2.5732	2.5830	2.5784	1.8400e-03	0.0000e+00
67	EMPTY	2.5830	2.5977	2.5835	2.2826e-03	0.0000e+00
68	EMPTY	2.5781	2.5879	2.5840	2.2241e-03	0.0000e+00
69	EMPTY	2.5879	2.5928	2.5909	2.4037e-03	0.0000e+00
70	EMPTY	2.5928	2.5977	2.5934	1.6172e-03	0.0000e+00
71	EMPTY	2.6025	2.6074	2.6063	2.0584e-03	0.0000e+00
72	EMPTY	2.6074	2.6123	2.6077	1.1827e-03	0.0000e+00
73	EMPTY	2.6123	2.6172	2.6143	2.4247e-03	0.0000e+00
74	EMPTY	2.6172	2.6270	2.6177	1.7954e-03	0.0000e+00
75	EMPTY	2.6221	2.6270	2.6226	1.4934e-03	0.0000e+00
76	EMPTY	2.6221	2.6270	2.6263	1.7263e-03	0.0000e+00
77	EMPTY	2.6318	2.6367	2.6334	2.3135e-03	0.0000e+00
78	EMPTY	2.6416	2.6465	2.6461	1.3508e-03	0.0000e+00
79	EMPTY	2.6563	2.6660	2.6592	2.6022e-03	0.0000e+00
80	PAN020136	-17.1190	-15.5931	-16.3872	3.4188e-01	8.7096e-01
81	PAN050136	-35.3573	-32.9159	-34.0525	5.3863e-01	1.6822e+00
82	PAN070136	-19.6820	-17.0117	-18.3788	4.5051e-01	8.7121e-01
83	PAN080136	-13.7093	-12.0309	-12.8794	3.4496e-01	8.7060e-01
84	PAN090136	-10.9128	-9.8446	-10.4285	2.5568e-01	8.7039e-01
85	PAN100136	-10.5636	-8.6563	-9.7181	4.8349e-01	8.7034e-01
86	PAN105136	-6.1702	-6.0176	-6.0861	4.4717e-02	8.7013e-01
87	PAN110136	-6.0953	1.2289	-4.9307	1.7067e+00	8.7009e-01
88	PAN115136	-7.3776	-1.4267	-4.3586	1.4145e+00	8.7007e-01
89	PAN120136	-7.0491	-3.0055	-6.0152	9.6153e-01	8.7013e-01
90	PAN125136	-6.0983	-3.5043	-5.0239	7.1567e-01	8.7009e-01
91	PAN130136	-2.6549	0.0154	-1.4451	6.0496e-01	8.7001e-01
92	PAN120048	-12.0895	-5.2994	-10.2927	1.9186e+00	8.7038e-01
93	PAN130048	-8.3687	-5.0118	-7.0608	6.6439e-01	8.7018e-01
94	PAN120224	-13.1972	-6.1782	-10.0115	1.5306e+00	8.7036e-01
95	PAN130224	-8.5726	-5.2157	-6.8599	6.8187e-01	8.7017e-01
96	PAN120312	-11.2649	-3.9407	-8.0730	1.9173e+00	8.7023e-01
97	PAN130312	-8.5301	-5.6309	-7.0151	5.9220e-01	8.7018e-01
98	PAB000136	59.9989	60.4567	60.2671	1.2039e-01	5.9925e-01
99	PAB100136	63.5678	64.0256	63.7799	9.6969e-02	6.0152e-01
100	PAB125136	64.8619	65.2281	65.0244	9.6231e-02	6.0235e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.3948	60.6155	60.0450	3.1655e-01	7.6487e-01
102	PRV0000001	19.7336	20.0998	19.8333	6.4370e-02	7.5164e-01
103	PSR0000001	65.0663	65.1883	65.0936	5.1461e-02	7.6745e-01
104	PFM0000001	0.7993	1.0739	0.9469	6.4240e-02	5.0001e-01
105	PAN000136	-142.0558	-127.4073	-134.9277	4.0698e+00	4.9316e+00
106	PFM0000002	0.9477	1.0484	1.0008	2.7045e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	-0.0036	2.5944e-03	0.0000e+00
108	EMPTY	-10.0000	-4.8730	-9.4779	1.3689e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0011	2.6865e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0013	2.1781e-03	0.0000e+00
112	VPW0000001	102.1334	102.7194	102.3924	1.8864e-01	1.0166e+00
113	VPW0000002	119.3735	119.9594	119.6486	1.1219e-01	1.0823e+00
114	VPW0000003	147.4985	148.0844	147.8214	1.3550e-01	1.2011e+00
115	VPW0000004	105.3598	105.7505	105.5313	1.3598e-01	1.0281e+00
116	VPW0000005	139.8738	140.2644	140.0772	1.2582e-01	1.1673e+00
117	VPW0000006	146.4769	146.8675	146.7161	1.1462e-01	1.1963e+00
118	IPW0000001	554.9911	568.6575	562.0036	2.7005e+00	9.2370e+00
119	IPW0000002	1268.7004	1288.2131	1274.9926	4.1443e+00	1.2925e+01
120	IPW0000003	1301.6248	1311.3748	1305.7635	2.3424e+00	1.3116e+01
121	IPW0000004	382.0519	384.9816	383.0185	8.1272e-01	3.6271e+00
122	IPW0000005	252.8292	253.8057	253.4071	3.0997e-01	2.8298e+00
123	JPW0000006	263.7752	266.7049	265.0309	6.6114e-01	2.8955e+00
124	EMPTY	-0.0293	-0.0146	-0.0207	4.0524e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.9041e-03	0.0000e+00
126	EMPTY	-0.0293	-0.0098	-0.0181	4.2286e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	3.1711e-03	0.0000e+00
128	IHT0000001	129.9053	132.4444	131.4837	5.6640e-01	4.3057e+00
129	IHT0000002	129.4734	132.0125	130.8925	5.2556e-01	4.3039e+00
130	IHT0000003	128.3691	130.9082	129.8360	5.2000e-01	4.3007e+00
131	IHT0000004	130.7129	132.8613	132.0442	5.0849e-01	4.3074e+00
132	IHT0000005	129.0602	131.0134	130.2919	4.8861e-01	4.3020e+00
133	IHT0000006	124.6056	126.9494	125.9608	5.1891e-01	4.2891e+00
134	IHT0000007	131.1974	133.3458	132.3653	4.8418e-01	4.3084e+00
135	IHT0000008	130.0631	132.2115	131.1671	5.2823e-01	4.3047e+00
136	IHT0000009	129.5110	131.6594	130.6828	5.0900e-01	4.3032e+00
137	IHT0000010	130.1232	132.4669	131.0081	5.5257e-01	4.3042e+00
138	IHT0000011	131.2200	133.3684	132.0848	5.3340e-01	4.3075e+00
139	IHT0000012	130.0218	132.1702	131.1219	5.2240e-01	4.3046e+00
140	IHT0000013	91.6166	93.5697	92.5334	4.9508e-01	4.2031e+00
141	IHT0000014	127.0808	129.2293	128.1013	5.0155e-01	4.2955e+00
142	IHT0000015	94.3435	96.2966	95.1407	4.8311e-01	4.2089e+00
143	IHT0000016	88.4127	90.5612	89.3932	5.1903e-01	4.1963e+00
144	IHT0000017	104.0753	107.5909	106.0961	9.1917e-01	4.2350e+00
145	IHT0000018	106.6181	108.7665	107.8299	5.1363e-01	4.2394e+00
146	IHT0000019	107.0350	109.1834	108.2707	4.4821e-01	4.2405e+00
147	IHT0000020	105.1908	107.5346	106.4704	5.0281e-01	4.2360e+00
148	IHT0000021	-3.3767	-0.0564	-1.5471	6.4494e-01	4.1000e+00
149	IHT0000022	91.6504	93.9941	93.0256	4.6657e-01	4.2042e+00
150	IHT0000023	104.5711	107.1101	105.7988	4.9954e-01	4.2343e+00
151	IHT0000024	69.9106	72.4497	71.0028	4.7159e-01	4.1610e+00
152	IHT0000025	102.4677	104.8114	103.3207	5.0539e-01	4.2282e+00
153	IHT0000026	104.6950	107.2341	105.6995	4.6834e-01	4.2341e+00
154	IHT0000027	89.6672	92.0110	90.4804	4.1880e-01	4.1987e+00
155	IHT0000028	90.4034	92.7471	91.3959	5.2262e-01	4.2006e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6115	107.9552	106.7036	5.2879e-01	4.2366e+00
157	IHT000030	108.3120	110.2652	109.2129	5.0401e-01	4.2430e+00
158	IHT000031	106.3927	108.3459	107.1540	5.1712e-01	4.2377e+00
159	IHT000032	107.0425	109.3863	108.0031	5.3016e-01	4.2399e+00
160	IHT000033	107.0237	109.1722	107.9166	5.3489e-01	4.2396e+00
161	IHT000034	93.7387	95.6918	94.5120	4.5274e-01	4.2075e+00
162	IHT000035	123.5727	125.9165	124.2982	4.8665e-01	4.2843e+00
163	IHT000036	92.2251	94.1782	93.1299	4.4519e-01	4.2044e+00

Velocity 1 = 0.049900 (ft/sec)
 Velocity 2 = 0.003400 (ft/sec)
 Pressure Drop = 0.077200 (psi)
 Tsat in = 0.058685 (deg F) Tsat out = 0.108582 (deg F)
 Phi inner = 1.400803 (kBtu/hr-ft2) Phi outer = 0.532196 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1452	0.1899
1	TRF000002	0.0957	0.1246
2	TFM000001	1.6117	1.8881
3	TIN000001	1.6027	1.8815
4	TRV000001	1.3143	1.5187
5	TSR000001	4.7701	2.9914
6	EMPTY	0.0271	0.0706
7	TAO050136	3.9963	1.5998
8	TAO070136	2.7587	1.0536
9	TAO080136	4.7202	1.7755
10	TAO090136	4.4828	1.8825
11	TAO100136	3.4730	1.1785
12	TAO105136	3.9234	1.3098
13	EMPTY	0.0000	0.0000
14	TAO115136	2.1960	0.6957
15	EMPTY	0.2020	0.5413
16	TAO125136	0.1223	0.0378
17	EMPTY	0.0439	0.0971
18	EMPTY	0.0159	0.0383
19	TAO130048	3.0900	1.0028
20	TAO120224	1.7425	0.5574
21	EMPTY	0.0314	0.0785
22	TAO120312	1.0573	0.3272
23	TAO130312	2.9714	0.9547
24	EMPTY	0.0199	0.0502
25	TRT070000	1.2622	0.4718
26	TRT100000	1.1168	0.3515
27	TRT120000	0.4025	0.1249
28	TRT125000	0.8017	0.2508
29	EMPTY	0.0107	0.0267
30	EMPTY	0.0569	0.1435
31	TAF050136	2.8103	1.7128
32	TAF070136	2.5016	1.3229
33	TAF080136	3.0170	1.5089
34	TAF090136	2.9429	1.3755
35	TAF100136	3.7406	1.6170
36	TAF105136	4.0980	1.6872
37	TAF110136	4.1681	1.5842
38	TAF115136	3.4611	1.3092
39	TAF120136	3.8868	1.4252
40	TAF125136	4.4269	1.5686
41	TAF130136	5.0425	1.7269
42	TAF120048	3.2507	1.2111
43	TAF130048	1.4510	0.5186
44	TAF120224	3.1992	1.2030
45	TAF130224	3.2988	1.1886

#	Name	Abs Diff	%Diff
46	EMPTY	0.0174	0.0457
47	EMPTY	0.0999	0.2498
48	TAI130048	0.7789	0.2417
49	TAI130136	0.0527	0.0163
50	TAI130224	0.9547	0.3076
51	TAI130312	1.0633	0.3319
52	TRR130000	3.3852	2.2224
53	TSI000001	0.2815	0.6461
54	TSI000002	2.3998	2.7032
55	TSO000001	0.3180	0.7737
56	TSO000002	1.0093	1.6793
57	TAF020136	2.7964	2.3838
58	EMPTY	0.1737	0.4019
59	TAF130312	3.2060	1.0969
60	EMPTY	0.0808	1.4542
61	EMPTY	0.0791	1.4299
62	EMPTY	0.0789	1.4321
63	EMPTY	0.0784	1.4267
64	EMPTY	0.0362	1.4291
65	EMPTY	0.0339	1.3344
66	EMPTY	0.0349	1.3721
67	EMPTY	0.0340	1.3336
68	EMPTY	0.0338	1.3254
69	EMPTY	0.0344	1.3456
70	EMPTY	0.0331	1.2928
71	EMPTY	0.0337	1.3100
72	EMPTY	0.0342	1.3289
73	EMPTY	0.0339	1.3138
74	EMPTY	0.0338	1.3081
75	EMPTY	0.0330	1.2743
76	EMPTY	0.0350	1.3507
77	EMPTY	0.0333	1.2807
78	EMPTY	0.0345	1.3210
79	EMPTY	0.0343	1.3067
80	PAN020136	1.2430	7.0504
81	PAN050136	0.7857	2.3618
82	PAN070136	0.0398	0.2161
83	PAN080136	0.9901	7.1387
84	PAN090136	2.2257	27.1334
85	PAN100136	1.2300	11.2348
86	PAN105136	0.0121	0.1992
87	PAN110136	2.9476	148.6360
88	PAN115136	2.9809	40.6145
89	PAN120136	1.4869	32.8357
90	PAN125136	0.0673	1.3219
91	PAN130136	1.0862	42.9108
92	PAN120048	0.7852	7.0880
93	PAN130048	0.7616	9.7361
94	PAN120224	1.2036	10.7320
95	PAN130224	0.8216	10.6958
96	PAN120312	0.1798	2.1787
97	PAN130312	2.0002	22.1867
98	PAB000136	0.0532	0.0882
99	PAB100136	0.0662	0.1037
100	PAB125136	0.1039	0.1595

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2409	0.3996
102	PRV000001	0.0859	0.4312
103	PSR000001	0.1557	0.2386
104	PFM000001	0.0392	3.9753
105	PAN000136	2.1384	1.5601
106	PFM000002	0.0024	0.2404
107	EMPTY	0.0008	18.1818
108	EMPTY	0.3574	3.6339
109	EMPTY	0.0012	52.1739
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0011	45.8333
112	VPW000001	0.3269	0.3182
113	VPW000002	0.0531	0.0444
114	VPW000003	0.1381	0.0933
115	VPW000004	0.1059	0.1002
116	VPW000005	0.2107	0.1502
117	VPW000006	0.0772	0.0526
118	IPW000001	17.3600	3.1874
119	IPW000002	23.5620	1.8145
120	IPW000003	18.6367	1.4072
121	IPW000004	0.2439	0.0637
122	IPW000005	1.1407	0.4481
123	IPW000006	2.0940	0.7839
124	EMPTY	0.0005	2.3585
125	EMPTY	0.0001	0.6849
126	EMPTY	0.0003	1.6854
127	EMPTY	0.0004	2.2988
128	IHT000001	0.1599	0.1215
129	IHT000002	0.1239	0.0946
130	IHT000003	0.0956	0.0736
131	IHT000004	0.1062	0.0804
132	IHT000005	0.1199	0.0919
133	IHT000006	0.0784	0.0622
134	IHT000007	0.0587	0.0443
135	IHT000008	0.0053	0.0040
136	IHT000009	0.0508	0.0389
137	IHT000010	0.0994	0.0758
138	IHT000011	0.0609	0.0461
139	IHT000012	0.0640	0.0488
140	IHT000013	0.1106	0.1194
141	IHT000014	0.1671	0.1303
142	IHT000015	0.1168	0.1226
143	IHT000016	0.2304	0.2571
144	IHT000017	0.7291	0.6825
145	IHT000018	0.0070	0.0065
146	IHT000019	0.0729	0.0673
147	IHT000020	0.0759	0.0712
148	IHT000021	0.0053	0.3414
149	IHT000022	0.3279	0.3512
150	IHT000023	0.1043	0.0985
151	IHT000024	0.1031	0.1450
152	IHT000025	0.1353	0.1308
153	IHT000026	0.1244	0.1176
154	IHT000027	0.3353	0.3692
155	IHT000028	0.7067	0.7673

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dif

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#	Name	Abs Diff	%Diff
156	IHT000029	0.5133	0.4788
157	IHT000030	0.6069	0.5526
158	IHT000031	0.5434	0.5046
159	IHT000032	0.5160	0.4755
160	IHT000033	0.5407	0.4985
161	IHT000034	0.4533	0.4773
162	IHT000035	0.4738	0.3797
163	IHT000036	0.4702	0.5023

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sum1

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Velocity 1 = 2.3511 (ft/sec) (+/- 31.2577 %)
Velocity 2 = 2.4653 (ft/sec) (+/- 10.7131 %)
Pressure drop = -4.5636 (psi)
Tsats in = 292.8824 (deg F) Tsats out = 297.7411 (deg F)
Phi inner = 99.5515 (kBtu/hr-ft2) (+/- 1.5729 %)
Phi outer = 100.3708 (kBtu/hr-ft2) (+/- 1.5520 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.3531	77.2021	76.7055	2.0390e-01	1.9000e+00
1	TRF000002	76.7749	77.1973	77.0325	1.3003e-01	1.9000e+00
2	TFM000001	85.7392	86.4744	86.1719	1.8562e-01	1.9002e+00
3	TIN000001	86.0075	86.6384	86.3145	1.6154e-01	1.9002e+00
4	TRV000001	86.3709	87.1039	86.7152	1.6261e-01	1.9002e+00
5	TSR000001	161.4724	163.7425	162.8666	5.6000e-01	1.9058e+00
6	EMPTY	37.9974	38.9168	38.4572	2.0766e-01	1.9010e+00
7	TAO050136	262.1986	263.3076	262.7087	2.2192e-01	1.9249e+00
8	TAO070136	275.6026	276.8951	276.3525	2.4443e-01	1.9285e+00
9	TAO080136	284.2823	285.3773	284.8336	2.5249e-01	1.9308e+00
10	TAO090136	244.6463	245.5832	245.1147	2.2382e-01	1.9205e+00
11	TAO100136	308.7943	310.2390	309.6682	3.0815e-01	1.9383e+00
12	TAO105136	310.5932	313.1200	311.5936	5.0461e-01	1.9389e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	321.7448	322.5562	322.1668	1.9128e-01	1.9424e+00
15	EMPTY	31.7686	42.8139	38.7090	3.2809e+00	1.9010e+00
16	TAC125136	319.8188	320.8943	320.4533	2.5261e-01	1.9418e+00
17	EMPTY	44.6423	45.5552	45.2723	2.0389e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6006	1.2461e-01	1.9012e+00
19	TAO130048	319.6985	321.4875	320.7540	4.2834e-01	1.9419e+00
20	TAO120224	315.1517	315.9628	315.5051	1.7733e-01	1.9402e+00
21	EMPTY	39.8352	40.2940	39.9775	1.3021e-01	1.9011e+00
22	TAO120312	323.4436	324.7915	324.1660	2.9937e-01	1.9430e+00
23	TAO130312	318.3951	319.7413	319.2672	3.5052e-01	1.9414e+00
24	EMPTY	39.3761	40.0646	39.7158	1.9254e-01	1.9011e+00
25	TRT070000	269.1020	278.0110	273.1935	2.1546e+00	1.9276e+00
26	TRT100000	324.7245	325.8881	325.1364	2.2011e-01	1.9434e+00
27	TRT120000	318.9918	320.2498	319.6608	2.4104e-01	1.9415e+00
28	TRT125000	318.0017	319.3441	318.6255	3.0868e-01	1.9412e+00
29	EMPTY	39.8352	40.5234	40.1335	1.2479e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6745	2.0868e-01	1.9011e+00
31	TAF050136	169.7959	174.0093	171.7021	1.0201e+00	1.9070e+00
32	TAF070136	195.5661	200.7494	198.4100	1.0248e+00	1.9111e+00
33	TAF080136	209.4949	214.1476	212.0272	1.1423e+00	1.9135e+00
34	TAF090136	223.2991	228.3214	225.8211	1.1851e+00	1.9163e+00
35	TAF100136	242.6889	245.4122	243.7639	5.0457e-01	1.9202e+00
36	TAF105136	253.0026	256.0490	254.1656	6.3342e-01	1.9227e+00
37	TAF110136	265.1088	273.4663	267.6208	2.1825e+00	1.9261e+00
38	TAF115136	274.4673	276.9456	275.5841	5.8383e-01	1.9283e+00
39	TAF120136	282.7368	285.3792	284.0057	5.9098e-01	1.9306e+00
40	TAF125136	287.4166	290.0470	288.5403	6.2724e-01	1.9319e+00
41	TAF130136	288.5028	292.1443	289.8588	7.4913e-01	1.9323e+00
42	TAF120048	284.9726	292.6052	287.6817	1.5957e+00	1.9317e+00
43	TAF130048	298.4753	299.1111	298.7371	1.4984e-01	1.9349e+00
44	TAF120224	274.1837	279.5057	276.3546	1.1048e+00	1.9285e+00
45	TAF130224	298.0948	299.6469	298.8438	2.7524e-01	1.9350e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0480	2.2895e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0647	1.2264e-01	1.9011e+00
48	TAI130048	327.1646	328.5078	327.9237	3.3665e-01	1.9443e+00
49	TAI130136	317.3426	318.2404	317.7662	1.6537e-01	1.9409e+00
50	TAI130224	315.4878	317.1125	316.2533	3.7287e-01	1.9404e+00
51	TAI130312	324.9031	326.1590	325.4521	2.9871e-01	1.9435e+00
52	TRR130000	158.3881	160.4650	159.6028	4.0353e-01	1.9054e+00
53	TSI000001	42.7059	43.4661	43.0319	1.9641e-01	1.9005e+00
54	TSI000002	91.8663	93.7420	92.9416	4.0775e-01	1.9004e+00
55	TSO000001	39.9524	40.8281	40.4730	1.9708e-01	1.9006e+00
56	TSO000002	60.3103	61.3832	60.8510	2.3734e-01	1.9001e+00
57	TAF020136	120.0386	125.0705	122.0161	9.3216e-01	1.9018e+00
58	EMPTY	42.5851	43.7285	43.0929	2.6255e-01	1.9013e+00
59	TAF130312	298.3789	299.5571	298.9119	2.7709e-01	1.9350e+00
60	EMPTY	5.7227	5.7373	5.7281	3.3656e-03	0.0000e+00
61	EMPTY	5.6982	5.7080	5.7032	3.0389e-03	0.0000e+00
62	EMPTY	5.6738	5.6885	5.6810	2.8266e-03	0.0000e+00
63	EMPTY	5.6641	5.6738	5.6671	2.5894e-03	0.0000e+00
64	EMPTY	2.6074	2.6123	2.6093	2.3941e-03	0.0000e+00
65	EMPTY	2.6123	2.6172	2.6166	1.6028e-03	0.0000e+00
66	EMPTY	2.6172	2.6221	2.6189	2.3675e-03	0.0000e+00
67	EMPTY	2.6221	2.6270	2.6243	2.4583e-03	0.0000e+00
68	EMPTY	2.6221	2.6318	2.6265	1.7784e-03	0.0000e+00
69	EMPTY	2.6318	2.6318	2.6318	0.0000e+00	0.0000e+00
70	EMPTY	2.6318	2.6367	2.6361	1.6028e-03	0.0000e+00
71	EMPTY	2.6465	2.6514	2.6468	1.1714e-03	0.0000e+00
72	EMPTY	2.6416	2.6514	2.6488	2.6543e-03	0.0000e+00
73	EMPTY	2.6514	2.6563	2.6556	1.7115e-03	0.0000e+00
74	EMPTY	2.6563	2.6611	2.6597	2.2603e-03	0.0000e+00
75	EMPTY	2.6611	2.6660	2.6646	2.2146e-03	0.0000e+00
76	EMPTY	2.6660	2.6709	2.6661	6.9053e-04	0.0000e+00
77	EMPTY	2.6709	2.6807	2.6756	1.3811e-03	0.0000e+00
78	EMPTY	2.6855	2.6904	2.6858	1.1714e-03	0.0000e+00
79	EMPTY	2.6953	2.7002	2.7001	6.9053e-04	0.0000e+00
80	PAN020136	-19.6367	-16.5087	-18.5213	1.0357e+00	8.7123e-01
81	PAN050136	-36.8832	-30.1693	-34.8232	1.3406e+00	1.6823e+00
82	PAN070136	-25.7092	-13.2733	-22.6376	2.4722e+00	8.7184e-01
83	PAN080136	-14.0145	-1.0445	-9.6230	2.9230e+00	8.7033e-01
84	PAN090136	-13.2016	-7.4795	-11.2469	1.5655e+00	8.7045e-01
85	PAN100136	-12.9287	-8.3511	-10.7772	1.2566e+00	8.7042e-01
86	PAN105136	-6.1702	-0.9059	-4.1942	1.2993e+00	8.7006e-01
87	PAN110136	-5.7139	-1.2125	-4.5298	8.3792e-01	8.7007e-01
88	PAN115136	-4.6310	-3.4103	-4.3076	2.9591e-01	8.7007e-01
89	PAN120136	-3.9973	-3.7684	-3.8813	7.1037e-02	8.7005e-01
90	PAN125136	-1.1392	-0.6814	-0.8874	1.0707e-01	8.7000e-01
91	PAN130136	-0.2898	0.1680	-0.0716	8.7207e-02	8.7000e-01
92	PAN120048	-9.8007	-9.1141	-9.5642	1.4480e-01	8.7033e-01
93	PAN130048	-0.6630	-0.0527	-0.3823	1.1477e-01	8.7000e-01
94	PAN120224	-8.6196	-7.4752	-8.1511	3.1551e-01	8.7024e-01
95	PAN130224	-0.4092	0.0486	-0.1864	1.0549e-01	8.7000e-01
96	PAN120312	-9.3575	-8.5946	-8.9471	1.4695e-01	8.7029e-01
97	PAN130312	-0.5955	0.1674	-0.1439	1.4771e-01	8.7000e-01
98	PAB000136	60.1363	60.4109	60.2480	8.4842e-02	5.9924e-01
99	PAB100136	63.8425	64.1171	63.9871	6.4313e-02	6.0166e-01
100	PAB125136	64.6330	64.8619	64.7621	6.5192e-02	6.0217e-01

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.7610	60.2493	60.0100	1.4582e-01	7.6486e-01
102	PRV0000001	19.7336	19.8557	19.7800	5.9853e-02	7.5163e-01
103	PSR0000001	64.3339	64.5780	64.3875	7.0449e-02	7.6708e-01
104	PFM0000001	0.7077	0.9824	0.8048	6.7733e-02	5.0000e-01
105	PAN000136	-129.2384	-124.2030	-126.3453	8.6973e-01	4.9301e+00
106	PFM0000002	0.8638	0.9142	0.8880	1.0806e-02	2.0001e-01
107	EMPTY	-0.0049	0.0000	-0.0046	1.1714e-03	0.0000e+00
108	EMPTY	-10.0000	-3.7842	-9.8714	8.7895e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0026	2.6488e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0022	2.4583e-03	0.0000e+00
112	VPW0000001	102.3287	103.1100	102.5318	1.9714e-01	1.0171e+00
113	VPW0000002	119.3735	119.9594	119.6977	1.3445e-01	1.0825e+00
114	VPW0000003	147.6938	148.2798	147.9595	1.5160e-01	1.2018e+00
115	VPW0000004	105.1645	105.9458	105.6216	1.7022e-01	1.0285e+00
116	VPW0000005	140.0691	140.8504	140.3504	1.7272e-01	1.1684e+00
117	VPW0000006	146.4769	147.2581	146.7543	1.6312e-01	1.1964e+00
118	IPW0000001	558.8958	568.6575	562.9176	1.9084e+00	9.2405e+00
119	IPW0000002	1268.7004	1276.5056	1272.4076	1.7296e+00	1.2909e+01
120	IPW0000003	1303.5748	1309.4248	1305.8760	1.7920e+00	1.3116e+01
121	IPW0000004	381.5636	384.0050	382.9211	4.4435e-01	3.6264e+00
122	IPW0000005	252.8292	254.7822	253.5908	3.8406e-01	2.8308e+00
123	IPW0000006	263.7752	265.7283	264.8398	3.5141e-01	2.8944e+00
124	EMPTY	-0.0293	-0.0195	-0.0229	3.3087e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0164	2.9197e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0200	3.0003e-03	0.0000e+00
127	EMPTY	-0.0293	-0.0146	-0.0185	3.4583e-03	0.0000e+00
128	IHT0000001	130.4913	132.2491	131.4131	4.9133e-01	4.3055e+00
129	IHT0000002	129.8640	132.0125	130.8719	4.7900e-01	4.3038e+00
130	IHT0000003	128.9551	130.9082	129.7949	5.0417e-01	4.3005e+00
131	IHT0000004	131.1035	133.2520	132.0215	5.3851e-01	4.3073e+00
132	IHT0000005	129.4509	131.4040	130.2751	5.0731e-01	4.3020e+00
133	IHT0000006	124.9963	127.1447	125.9533	4.7556e-01	4.2891e+00
134	IHT0000007	131.3927	133.3458	132.3107	4.8528e-01	4.3082e+00
135	IHT0000008	130.0631	132.4068	131.0591	4.9795e-01	4.3044e+00
136	IHT0000009	129.5110	131.8547	130.6086	5.1432e-01	4.3030e+00
137	IHT0000010	129.5373	132.6623	130.9982	5.5557e-01	4.3042e+00
138	IHT0000011	130.4387	133.3684	132.0168	5.8373e-01	4.3073e+00
139	IHT0000012	129.4359	132.5609	131.0531	5.9587e-01	4.3044e+00
140	IHT0000013	91.2260	93.9603	92.5424	5.3205e-01	4.2031e+00
141	IHT0000014	127.0808	129.6199	128.2137	5.7045e-01	4.2958e+00
142	IHT0000015	94.3435	96.4919	95.1950	5.0956e-01	4.2091e+00
143	IHT0000016	88.4127	90.7565	89.4908	5.8293e-01	4.1965e+00
144	IHT0000017	103.4893	107.7862	105.4971	1.0365e+00	4.2336e+00
145	IHT0000018	106.4228	109.1572	107.7627	6.2889e-01	4.2393e+00
146	IHT0000019	107.2303	109.3788	108.2303	5.4482e-01	4.2404e+00
147	IHT0000020	105.3861	107.5346	106.3549	5.0833e-01	4.2357e+00
148	IHT0000021	-2.9860	-0.2517	-1.6189	6.2887e-01	4.1000e+00
149	IHT0000022	92.0410	94.5801	93.0410	5.8612e-01	4.2042e+00
150	IHT0000023	104.7664	106.9148	105.7195	5.4196e-01	4.2341e+00
151	IHT0000024	69.9106	72.0590	70.9067	5.2534e-01	4.1609e+00
152	IHT0000025	102.0771	104.6161	103.2607	5.5861e-01	4.2280e+00
153	IHT0000026	104.3044	106.8435	105.6169	5.5809e-01	4.2339e+00
154	IHT0000027	89.0813	92.0110	90.5461	6.1289e-01	4.1988e+00
155	IHT0000028	89.8175	93.3331	91.3956	6.1490e-01	4.2006e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2208	108.3458	106.5294	5.6531e-01	4.2361e+00
157	IHT000030	107.7261	110.8511	109.0698	5.8479e-01	4.2426e+00
158	IHT000031	105.8068	108.9318	107.0216	6.0655e-01	4.2374e+00
159	IHT000032	106.6519	109.9722	107.8433	6.1795e-01	4.2395e+00
160	IHT000033	106.6331	109.9534	107.7816	6.1592e-01	4.2393e+00
161	IHT000034	93.5434	95.8872	94.4380	4.9140e-01	4.2074e+00
162	IHT000035	123.3774	125.5258	124.3579	4.9519e-01	4.2844e+00
163	IHT000036	92.2251	94.5688	93.1782	4.5445e-01	4.2045e+00

Velocity 1 = 2.3800 (ft/sec) (+/- 30.4850 %)
 Velocity 2 = 2.4683 (ft/sec) (+/- 10.6893 %)
 Pressure drop = -4.5648 (psi)
 Tsat in = 292.6942 (deg F) Tsat out = 297.5455 (deg F)
 Phi inner = 100.9925 (kBtu/hr-ft2) (+/- 1.5693 %)
 Phi outer = 101.1142 (kBtu/hr-ft2) (+/- 1.5505 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.5654	76.9899	76.8253	1.5779e-01	1.9000e+00
1	TRF000002	76.9861	77.6195	77.1671	1.4930e-01	1.9000e+00
2	TFM000001	85.8451	86.6839	86.2751	2.0775e-01	1.9002e+00
3	TIN000001	85.9021	86.5325	86.1534	1.6164e-01	1.9002e+00
4	TRV000001	86.5810	87.4190	87.0151	2.1588e-01	1.9002e+00
5	TSR000001	155.3394	157.1244	156.3495	4.6120e-01	1.9050e+00
6	EMPTY	37.7675	38.9168	38.4243	2.4379e-01	1.9010e+00
7	TAO050136	261.7370	262.4758	262.0487	1.8167e-01	1.9247e+00
8	TAO070136	274.9542	275.9712	275.4559	2.5595e-01	1.9282e+00
9	TAO080136	284.0098	285.1959	284.6949	2.5087e-01	1.9308e+00
10	TAO090136	244.0856	244.7410	244.3760	1.4837e-01	1.9204e+00
11	TAO100136	308.4335	309.3365	309.0249	2.6135e-01	1.9381e+00
12	TAO105136	309.2386	311.4056	310.2173	4.5729e-01	1.9385e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	320.5723	321.7441	321.2603	2.5146e-01	1.9421e+00
15	EMPTY	31.3055	42.8139	36.7191	3.3353e+00	1.9009e+00
16	TAO125136	320.1789	320.9831	320.6438	1.7997e-01	1.9419e+00
17	EMPTY	44.8706	45.5552	45.2386	1.8524e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5899	1.3673e-01	1.9012e+00
19	TAO130048	319.1623	321.3096	320.3215	4.5619e-01	1.9418e+00
20	TAO120224	315.0620	315.7827	315.4828	1.8876e-01	1.9402e+00
21	EMPTY	39.8352	40.5234	40.0412	1.5705e-01	1.9011e+00
22	TAO120312	322.0050	323.2634	322.6122	2.7135e-01	1.9425e+00
23	TAO130312	318.1260	319.4719	318.7673	2.9975e-01	1.9412e+00
24	EMPTY	39.3761	39.8352	39.6478	1.6009e-01	1.9011e+00
25	TRT070000	257.9001	275.0465	265.3004	5.7096e+00	1.9255e+00
26	TRT100000	323.6502	324.4568	324.1221	2.0263e-01	1.9430e+00
27	TRT120000	318.0033	318.9921	318.5172	2.0763e-01	1.9412e+00
28	TRT125000	317.2876	318.8093	318.1246	2.4605e-01	1.9410e+00
29	EMPTY	40.0646	40.2940	40.1349	1.0683e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7040	1.8741e-01	1.9011e+00
31	TAF050136	168.9132	173.5203	171.2255	9.6538e-01	1.9069e+00
32	TAF070136	195.2798	200.0802	197.9671	1.0811e+00	1.9110e+00
33	TAF080136	208.7320	213.4829	211.7409	1.0601e+00	1.9135e+00
34	TAF090136	223.4889	227.2795	225.2907	1.0185e+00	1.9162e+00
35	TAF100136	242.1249	245.0370	243.3715	7.2026e-01	1.9201e+00
36	TAF105136	252.6344	255.3104	253.9060	6.1260e-01	1.9226e+00
37	TAF110136	265.2001	274.2927	267.3669	2.0616e+00	1.9261e+00
38	TAF115136	274.3759	276.8544	275.5810	5.4489e-01	1.9283e+00
39	TAF120136	283.0110	285.9269	284.4485	6.2035e-01	1.9307e+00
40	TAF125136	288.2322	290.7705	289.5855	6.3173e-01	1.9322e+00
41	TAF130136	288.7776	294.1439	290.7430	1.1431e+00	1.9325e+00
42	TAF120048	282.0179	288.1936	284.3338	1.3933e+00	1.9307e+00
43	TAF130048	298.2030	298.8389	298.4850	1.6180e-01	1.9349e+00
44	TAF120224	274.0923	277.0309	275.4102	6.3046e-01	1.9282e+00
45	TAF130224	295.9014	299.3725	298.6330	4.9119e-01	1.9349e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0021	2.3697e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0131	1.4256e-01	1.9011e+00
48	TAI130048	326.7170	328.4182	327.5537	3.4073e-01	1.9442e+00
49	TAI130136	317.5222	318.2404	317.8320	1.5445e-01	1.9409e+00
50	TAI130224	315.1263	316.5707	316.0016	3.0394e-01	1.9403e+00
51	TAI130312	324.1851	325.0821	324.6556	1.8725e-01	1.9432e+00
52	TRR130000	158.5860	159.9720	159.3718	3.4057e-01	1.9054e+00
53	TSI000001	43.1400	43.9008	43.5084	1.7286e-01	1.9005e+00
54	TSI000002	92.9080	94.3664	93.7520	3.5577e-01	1.9004e+00
55	TSO000001	40.4996	41.2652	40.8251	1.7372e-01	1.9006e+00
56	TSO000002	60.9538	61.9187	61.4308	2.1550e-01	1.9000e+00
57	TAF020136	119.5231	123.9421	121.3216	9.5950e-01	1.9018e+00
58	EMPTY	42.5851	43.5000	43.1126	2.6078e-01	1.9013e+00
59	TAF130312	298.2882	299.1953	298.8194	1.9063e-01	1.9350e+00
60	EMPTY	5.7129	5.7324	5.7224	3.2155e-03	0.0000e+00
61	EMPTY	5.6934	5.7031	5.6974	2.0781e-03	0.0000e+00
62	EMPTY	5.6689	5.6787	5.6758	2.8047e-03	0.0000e+00
63	EMPTY	5.6543	5.6641	5.6613	2.6370e-03	0.0000e+00
64	EMPTY	2.6025	2.6074	2.6073	6.9754e-04	0.0000e+00
65	EMPTY	2.6074	2.6172	2.6141	2.5787e-03	0.0000e+00
66	EMPTY	2.6123	2.6221	2.6172	9.9670e-04	0.0000e+00
67	EMPTY	2.6221	2.6270	2.6222	6.9754e-04	0.0000e+00
68	EMPTY	2.6221	2.6270	2.6235	2.2287e-03	0.0000e+00
69	EMPTY	2.6270	2.6318	2.6312	1.6172e-03	0.0000e+00
70	EMPTY	2.6318	2.6367	2.6333	2.2737e-03	0.0000e+00
71	EMPTY	2.6416	2.6465	2.6464	6.9754e-04	0.0000e+00
72	EMPTY	2.6465	2.6514	2.6468	1.1827e-03	0.0000e+00
73	EMPTY	2.6514	2.6563	2.6535	2.4414e-03	0.0000e+00
74	EMPTY	2.6563	2.6611	2.6566	1.3508e-03	0.0000e+00
75	EMPTY	2.6611	2.6660	2.6619	1.8234e-03	0.0000e+00
76	EMPTY	2.6660	2.6660	2.6660	0.0000e+00	0.0000e+00
77	EMPTY	2.6709	2.6758	2.6740	2.3783e-03	0.0000e+00
78	EMPTY	2.6807	2.6855	2.6854	6.9754e-04	0.0000e+00
79	EMPTY	2.6953	2.7002	2.6984	2.3783e-03	0.0000e+00
80	PAN020136	-19.6367	-15.9746	-18.6714	1.1437e+00	8.7125e-01
81	PAN050136	-37.6461	-32.0004	-35.1923	1.1888e+00	1.6823e+00
82	PAN070136	-25.4041	-12.4341	-22.5905	2.6146e+00	8.7183e-01
83	PAN080136	-14.0908	-0.5105	-8.9931	3.3402e+00	8.7029e-01
84	PAN090136	-13.1253	-6.9455	-11.0731	1.5300e+00	8.7044e-01
85	PAN100136	-13.0050	-9.1140	-11.1677	1.3138e+00	8.7045e-01
86	PAN105136	-6.1702	-1.4399	-4.6163	1.2778e+00	8.7008e-01
87	PAN110136	-6.0190	-2.4332	-4.4137	9.2998e-01	8.7007e-01
88	PAN115136	-4.8599	-3.1052	-4.0861	4.2507e-01	8.7006e-01
89	PAN120136	-4.0736	-3.5396	-3.8478	1.0442e-01	8.7005e-01
90	PAN125136	-1.5969	-1.0629	-1.2996	1.1470e-01	8.7001e-01
91	PAN130136	0.0154	0.4732	0.2350	1.0049e-01	8.7000e-01
92	PAN120048	-9.9533	-8.7326	-9.4379	3.1477e-01	8.7032e-01
93	PAN130048	-1.1208	-0.3578	-0.7051	1.4447e-01	8.7000e-01
94	PAN120224	-8.7722	-7.0937	-8.0108	4.6106e-01	8.7023e-01
95	PAN130224	-0.7907	-0.0277	-0.5026	1.5978e-01	8.7000e-01
96	PAN120312	-9.2813	-8.6709	-8.9870	1.4358e-01	8.7029e-01
97	PAN130312	-0.9770	0.3963	-0.5161	2.6335e-01	8.7000e-01
98	PAB000136	59.9074	60.1820	60.0774	6.7381e-02	5.9913e-01
99	PAB100136	63.7051	63.9798	63.8350	6.6957e-02	6.0155e-01
100	PAB125136	64.5414	64.6330	64.5760	2.1975e-02	6.0205e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.6389	60.2493	59.9752	1.1562e-01	7.6484e-01
102	PRV000001	19.8557	20.0998	19.8881	5.9882e-02	7.5165e-01
103	PSR000001	64.2118	64.3339	64.3139	4.5586e-02	7.6704e-01
104	PFM000001	0.7077	0.9824	0.8254	6.7381e-02	5.0000e-01
105	PAN000136	-130.6117	-123.7452	-126.3797	1.2830e+00	4.9301e+00
106	PFM000002	0.8638	0.9142	0.8902	1.5318e-02	2.0001e-01
107	EMPTY	-0.0049	0.0049	-0.0043	1.8997e-03	0.0000e+00
108	EMPTY	-10.0000	-9.0430	-9.9805	1.3672e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0018	2.7646e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0014	2.2287e-03	0.0000e+00
112	VPW000001	102.3287	102.9147	102.6356	1.5947e-01	1.0175e+00
113	VPW000002	119.5688	119.7641	119.6964	9.3931e-02	1.0825e+00
114	VPW000003	147.8891	148.2798	148.0845	1.1960e-01	1.2023e+00
115	VPW000004	105.3598	105.9458	105.6747	1.3705e-01	1.0286e+00
116	VPW000005	140.0691	140.6550	140.3163	1.3681e-01	1.1683e+00
117	VPW000006	146.6722	147.4534	146.9672	1.7434e-01	1.1974e+00
118	IPW000001	545.2294	547.1817	546.5042	9.3893e-01	9.1788e+00
119	IPW000002	1297.9695	1309.6771	1302.6686	3.0831e+00	1.3096e+01
120	IPW000003	1321.1248	1326.9747	1324.3082	1.3611e+00	1.3231e+01
121	IPW000004	382.0519	384.0050	382.9089	5.6847e-01	3.6264e+00
122	IPW000005	253.8057	255.2704	254.4035	3.3450e-01	2.8354e+00
123	IPW000006	266.7049	268.6580	267.6317	4.7009e-01	2.9104e+00
124	EMPTY	-0.0293	-0.0146	-0.0231	3.6993e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0152	2.3655e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0189	4.0649e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0165	3.4261e-03	0.0000e+00
128	IHT000001	130.2960	132.8350	131.4359	5.4860e-01	4.3055e+00
129	IHT000002	129.6687	132.2078	130.8845	5.3972e-01	4.3038e+00
130	IHT000003	128.9551	130.9082	129.8599	4.8451e-01	4.3007e+00
131	IHT000004	131.1035	133.2520	132.0721	4.8658e-01	4.3075e+00
132	IHT000005	129.2556	131.4040	130.2919	4.9186e-01	4.3020e+00
133	IHT000006	125.1916	126.9494	125.9728	4.6151e-01	4.2892e+00
134	IHT000007	131.5880	133.5412	132.3653	4.4483e-01	4.3084e+00
135	IHT000008	130.2584	132.4068	131.1990	4.5922e-01	4.3048e+00
136	IHT000009	129.5110	131.8547	130.7226	4.6147e-01	4.3034e+00
137	IHT000010	129.9279	132.0763	131.0001	4.9815e-01	4.3042e+00
138	IHT000011	131.0246	133.5637	132.0649	5.0491e-01	4.3074e+00
139	IHT000012	130.0218	132.9515	131.1299	5.6154e-01	4.3046e+00
140	IHT000013	91.8119	94.7416	92.6410	5.6737e-01	4.2034e+00
141	IHT000014	127.2762	129.6199	128.1970	4.9635e-01	4.2957e+00
142	IHT000015	94.1481	96.8825	95.2204	5.5260e-01	4.2091e+00
143	IHT000016	88.6080	90.5612	89.5168	5.1297e-01	4.1966e+00
144	IHT000017	103.8800	107.2003	105.4105	8.3184e-01	4.2333e+00
145	IHT000018	106.8134	109.1572	107.6465	5.4922e-01	4.2390e+00
146	IHT000019	107.0350	109.3788	108.0793	6.1834e-01	4.2401e+00
147	IHT000020	104.9955	107.5346	106.2113	5.9169e-01	4.2353e+00
148	IHT000021	-2.9860	-0.2517	-1.7863	6.9741e-01	4.1000e+00
149	IHT000022	91.8457	94.3848	92.9817	5.9358e-01	4.2041e+00
150	IHT000023	104.5711	106.7195	105.5477	5.2891e-01	4.2337e+00
151	IHT000024	69.9106	72.0590	70.7915	4.6343e-01	4.1607e+00
152	IHT000025	102.4677	104.6161	103.1453	5.0288e-01	4.2278e+00
153	IHT000026	104.4997	106.8435	105.4842	5.0423e-01	4.2335e+00
154	IHT000027	89.2766	92.0110	90.4525	5.3857e-01	4.1986e+00
155	IHT000028	90.5987	93.1378	91.6470	5.8280e-01	4.2012e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0021	107.9552	106.7554	4.6322e-01	4.2367e+00
157	IHT000030	108.5073	110.6558	109.3563	4.4315e-01	4.2433e+00
158	IHT000031	106.5881	108.1506	107.3055	4.1314e-01	4.2381e+00
159	IHT000032	107.2378	109.1910	108.0948	4.4896e-01	4.2401e+00
160	IHT000033	107.2190	109.1722	108.0481	4.4490e-01	4.2400e+00
161	IHT000034	93.9340	95.6918	94.7313	4.1592e-01	4.2080e+00
162	IHT000035	123.7680	125.5258	124.5613	4.6049e-01	4.2850e+00
163	IHT000036	92.4204	94.3735	93.4607	3.9344e-01	4.2052e+00

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Velocity 1 = 0.028900 (ft/sec)
Velocity 2 = 0.003000 (ft/sec)
Pressure Drop = 0.001200 (psi)
Tsats in = 0.188171 (deg F) Tsats out = 0.195587 (deg F)
Phi inner = 1.441002 (kBtu/hr-ft2) Phi outer = 0.743401 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1198	0.1562
1	TRF000002	0.1346	0.1747
2	TFM000001	0.1032	0.1198
3	TIN000001	0.1611	0.1866
4	TRV000001	0.2999	0.3458
5	TSR000001	6.5171	4.0015
6	EMPTY	0.0329	0.0855
7	TAO050136	0.6600	0.2512
8	TAO070136	0.8966	0.3244
9	TAO080136	0.1387	0.0487
10	TAO090136	0.7387	0.3014
11	TAO100136	0.6433	0.2077
12	TAO105136	1.3763	0.4417
13	EMPTY	0.0000	0.0000
14	TAO115136	0.9065	0.2814
15	EMPTY	1.9899	5.1407
16	TAO125136	0.1905	0.0594
17	EMPTY	0.0337	0.0744
18	EMPTY	0.0107	0.0257
19	TAO130048	0.4325	0.1348
20	TAO120224	0.0223	0.0071
21	EMPTY	0.0637	0.1593
22	TAO120312	1.5538	0.4793
23	TAO130312	0.4999	0.1566
24	EMPTY	0.0680	0.1712
25	TRT070000	7.8931	2.8892
26	TRT100000	1.0143	0.3120
27	TRT120000	1.1436	0.3577
28	TRT125000	0.5009	0.1572
29	EMPTY	0.0014	0.0035
30	EMPTY	0.0295	0.0744
31	TAF050136	0.4766	0.2776
32	TAF070136	0.4429	0.2232
33	TAF080136	0.2863	0.1350
34	TAF090136	0.5304	0.2349
35	TAF100136	0.3924	0.1610
36	TAF105136	0.2596	0.1021
37	TAF110136	0.2539	0.0949
38	TAF115136	0.0031	0.0011
39	TAF120136	0.4428	0.1559
40	TAF125136	1.0452	0.3622
41	TAF130136	0.8842	0.3051
42	TAF120048	3.3479	1.1638
43	TAF130048	0.2521	0.0844
44	TAF120224	0.9444	0.3417
45	TAF130224	0.2108	0.0705

#	Name	Abs Diff	%Diff
46	EMPTY	0.0459	0.1206
47	EMPTY	0.0516	0.1288
48	TAI130048	0.3700	0.1128
49	TAI130136	0.0658	0.0207
50	TAI130224	0.2517	0.0796
51	TAI130312	0.7965	0.2447
52	TRR130000	0.2310	0.1447
53	TSI000001	0.4765	1.1073
54	TSI000002	0.8104	0.8719
55	TSO000001	0.3521	0.8700
56	TSO000002	0.5798	0.9528
57	TAF020136	0.6945	0.5692
58	EMPTY	0.0197	0.0457
59	TAF130312	0.0925	0.0309
60	EMPTY	0.0057	0.0995
61	EMPTY	0.0058	0.1017
62	EMPTY	0.0052	0.0915
63	EMPTY	0.0058	0.1023
64	EMPTY	0.0020	0.0766
65	EMPTY	0.0025	0.0955
66	EMPTY	0.0017	0.0649
67	EMPTY	0.0021	0.0800
68	EMPTY	0.0030	0.1142
69	EMPTY	0.0006	0.0228
70	EMPTY	0.0028	0.1062
71	EMPTY	0.0004	0.0151
72	EMPTY	0.0020	0.0755
73	EMPTY	0.0021	0.0791
74	EMPTY	0.0031	0.1166
75	EMPTY	0.0027	0.1013
76	EMPTY	0.0001	0.0038
77	EMPTY	0.0016	0.0598
78	EMPTY	0.0004	0.0149
79	EMPTY	0.0017	0.0630
80	PAN020136	0.1501	0.8104
81	PAN050136	0.3691	1.0599
82	PAN070136	0.0471	0.2081
83	PAN080136	0.6299	6.5458
84	PAN090136	0.1738	1.5453
85	PAN100136	0.3905	3.6234
86	PAN105136	0.4221	10.0639
87	PAN110136	0.1161	2.5630
88	PAN115136	0.2215	5.1421
89	PAN120136	0.0335	0.8631
90	PAN125136	0.4122	46.4503
91	PAN130136	0.3066	428.2123
92	PAN120048	0.1263	1.3206
93	PAN130048	0.3228	84.4363
94	PAN120224	0.1403	1.7212
95	PAN130224	0.3162	169.6352
96	PAN120312	0.0399	0.4460
97	PAN130312	0.3722	258.6518
98	PAB000136	0.1706	0.2832
99	PAB100136	0.1521	0.2377
100	PAB125136	0.1861	0.2874

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0348	0.0580
102	PRV000001	0.1081	0.5465
103	PSR000001	0.0736	0.1143
104	PFM000001	0.0206	2.5596
105	PAN000136	0.0344	0.0272
106	PFM000002	0.0022	0.2477
107	EMPTY	0.0003	6.5217
108	EMPTY	0.1091	1.1052
109	EMPTY	0.0008	30.7692
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0008	36.3636
112	VPW000001	0.1038	0.1012
113	VPW000002	0.0013	0.0011
114	VPW000003	0.1250	0.0845
115	VPW000004	0.0531	0.0503
116	VPW000005	0.0341	0.0243
117	VPW000006	0.2129	0.1451
118	IPW000001	16.4134	2.9158
119	IPW000002	30.2610	2.3782
120	IPW000003	18.4323	1.4115
121	IPW000004	0.0122	0.0032
122	IPW000005	0.8127	0.3205
123	IPW000006	2.7919	1.0542
124	EMPTY	0.0002	0.8734
125	EMPTY	0.0012	7.3171
126	EMPTY	0.0011	5.5000
127	EMPTY	0.0020	10.8108
128	IHT000001	0.0228	0.0173
129	IHT000002	0.0126	0.0096
130	IHT000003	0.0650	0.0501
131	IHT000004	0.0506	0.0383
132	IHT000005	0.0168	0.0129
133	IHT000006	0.0195	0.0155
134	IHT000007	0.0546	0.0413
135	IHT000008	0.1399	0.1068
136	IHT000009	0.1140	0.0873
137	IHT000010	0.0019	0.0015
138	IHT000011	0.0481	0.0364
139	IHT000012	0.0768	0.0586
140	IHT000013	0.0986	0.1065
141	IHT000014	0.0167	0.0130
142	IHT000015	0.0254	0.0267
143	IHT000016	0.0260	0.0291
144	IHT000017	0.0866	0.0821
145	IHT000018	0.1162	0.1078
146	IHT000019	0.1510	0.1395
147	IHT000020	0.1436	0.1350
148	IHT000021	0.1674	10.3404
149	IHT000022	0.0593	0.0637
150	IHT000023	0.1718	0.1625
151	IHT000024	0.1152	0.1625
152	IHT000025	0.1154	0.1118
153	IHT000026	0.1327	0.1256
154	IHT000027	0.0936	0.1034
155	IHT000028	0.2514	0.2751

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2260	0.2121
157	IHT000030	0.2865	0.2627
158	IHT000031	0.2839	0.2653
159	IHT000032	0.2515	0.2332
160	IHT000033	0.2665	0.2473
161	IHT000034	0.2933	0.3106
162	IHT000035	0.2034	0.1636
163	IHT000036	0.2825	0.3032

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Velocity 1 = 10.9983 (ft/sec) (+/- 3.7189 %)
Velocity 2 = 11.0115 (ft/sec) (+/- 3.5040 %)
Pressure drop = -0.3986 (psi)
Tsat in = 292.9328 (deg F) Tsat out = 293.2788 (deg F)
Phi inner = 99.4245 (kBtu/hr-ft2) (+/- 1.5728 %)
Phi outer = 100.4578 (kBtu/hr-ft2) (+/- 1.5505 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.4143	77.8385	77.6349	1.5426e-01	1.9000e+00
1	TRF000002	77.6195	78.0415	77.9234	1.2903e-01	1.9000e+00
2	TFM000001	85.4277	86.2669	85.8471	2.0766e-01	1.9002e+00
3	TIN000001	85.2715	86.1124	85.7508	1.6745e-01	1.9002e+00
4	TRV000001	86.1662	86.7948	86.5179	1.6894e-01	1.9002e+00
5	TSR000001	126.6801	128.4020	127.6888	4.4354e-01	1.9022e+00
6	EMPTY	37.9974	38.9168	38.4572	2.3217e-01	1.9010e+00
7	TAO050136	138.3402	139.1450	138.7428	1.6256e-01	1.9032e+00
8	TAO070136	142.4424	143.3501	142.8499	2.0064e-01	1.9036e+00
9	TAO080136	144.5221	145.1231	144.8188	1.6782e-01	1.9038e+00
10	TAO090136	174.4032	175.2860	174.8153	1.9207e-01	1.9074e+00
11	TAO100136	150.7138	151.4129	151.1412	1.8598e-01	1.9044e+00
12	TAO105136	151.8422	152.6410	152.2455	2.2178e-01	1.9046e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	160.3447	161.0417	160.6399	1.7290e-01	1.9055e+00
15	EMPTY	36.3865	37.7675	37.2981	4.0253e-01	1.9009e+00
16	TAO125136	163.5934	164.3831	164.0869	1.4797e-01	1.9060e+00
17	EMPTY	44.8706	45.5552	45.2540	2.0326e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6006	1.3292e-01	1.9012e+00
19	TAO130048	152.5278	153.1255	152.8307	1.4914e-01	1.9046e+00
20	TAO120224	156.1706	157.1654	156.6680	1.9999e-01	1.9051e+00
21	EMPTY	39.1464	39.6057	39.3256	1.5587e-01	1.9010e+00
22	TAO120312	159.9655	160.8604	160.3753	2.3377e-01	1.9055e+00
23	TAO130312	153.9663	154.7624	154.5313	1.4966e-01	1.9048e+00
24	EMPTY	38.9168	39.6057	39.3164	2.0648e-01	1.9010e+00
25	TRT070000	142.7259	143.6343	143.2751	1.9475e-01	1.9036e+00
26	TRT100000	154.9735	155.7693	155.3675	1.9887e-01	1.9049e+00
27	TRT120000	156.9277	157.6237	157.2936	1.5874e-01	1.9051e+00
28	TRT125000	158.5254	159.4156	158.9646	1.6973e-01	1.9053e+00
29	EMPTY	39.6057	40.0646	39.8949	1.1175e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7112	2.0324e-01	1.9011e+00
31	TAF050136	104.0478	104.7710	104.3909	1.7631e-01	1.9008e+00
32	TAF070136	110.1091	111.0313	110.5430	2.0240e-01	1.9011e+00
33	TAF080136	112.6008	113.3176	112.8674	1.8018e-01	1.9012e+00
34	TAF090136	115.0490	116.1764	115.6024	2.3615e-01	1.9014e+00
35	TAF100136	119.3683	120.0848	119.7408	1.6643e-01	1.9017e+00
36	TAF105136	121.8497	122.8633	122.4047	2.7100e-01	1.9018e+00
37	TAF110136	124.7496	125.3586	125.0824	1.5368e-01	1.9020e+00
38	TAF115136	126.8087	127.7222	127.3200	2.0511e-01	1.9022e+00
39	TAF120136	129.0345	129.6427	129.2984	1.1776e-01	1.9024e+00
40	TAF125136	130.4915	131.7023	131.2543	2.8163e-01	1.9025e+00
41	TAF130136	132.5556	133.0616	132.8510	1.3838e-01	1.9027e+00
42	TAF120048	128.2702	129.2901	128.8453	2.2670e-01	1.9023e+00
43	TAF130048	130.8898	131.4983	131.1617	1.3025e-01	1.9025e+00
44	TAF120224	128.4856	129.2967	128.8509	1.8667e-01	1.9023e+00
45	TAF130224	131.5040	132.2151	131.9061	1.4216e-01	1.9026e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0296	1.9713e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3118	1.1401e-01	1.9010e+00
48	TAI130048	161.6079	162.4007	161.8775	1.4026e-01	1.9057e+00
49	TAI130136	161.6983	162.2921	162.0467	1.4720e-01	1.9057e+00
50	TAI130224	161.9160	162.6110	162.2574	1.6674e-01	1.9057e+00
51	TAI130312	160.5329	161.1288	160.7755	1.1888e-01	1.9055e+00
52	TRR130000	121.6809	123.2069	122.4095	3.8122e-01	1.9018e+00
53	TSI000001	41.7312	42.6014	42.1968	1.8645e-01	1.9005e+00
54	TSI000002	92.0781	93.8488	92.7615	4.1883e-01	1.9003e+00
55	TSO000001	40.7150	41.5901	41.1394	1.9847e-01	1.9006e+00
56	TSO000002	48.6698	49.6440	49.2281	2.0911e-01	1.9003e+00
57	TAF020136	92.8911	93.9394	93.3813	2.0823e-01	1.9004e+00
58	EMPTY	42.8139	43.7285	43.2987	2.5571e-01	1.9013e+00
59	TAF130312	133.3171	134.1258	133.7781	1.7576e-01	1.9027e+00
60	EMPTY	1.5137	1.5234	1.5187	1.9631e-03	0.0000e+00
61	EMPTY	1.5234	1.5283	1.5249	2.2603e-03	0.0000e+00
62	EMPTY	1.5283	1.5332	1.5320	2.1065e-03	0.0000e+00
63	EMPTY	1.5381	1.5430	1.5424	1.6028e-03	0.0000e+00
64	EMPTY	0.7959	0.8057	0.8009	1.2041e-03	0.0000e+00
65	EMPTY	0.8154	0.8203	0.8200	1.1714e-03	0.0000e+00
66	EMPTY	0.8301	0.8350	0.8345	1.4797e-03	0.0000e+00
67	EMPTY	0.8447	0.8496	0.8493	1.1714e-03	0.0000e+00
68	EMPTY	0.8594	0.8643	0.8595	6.9053e-04	0.0000e+00
69	EMPTY	0.8740	0.8789	0.8744	1.3381e-03	0.0000e+00
70	EMPTY	0.8887	0.8887	0.8887	0.0000e+00	0.0000e+00
71	EMPTY	0.9082	0.9131	0.9106	2.4662e-03	0.0000e+00
72	EMPTY	0.9229	0.9277	0.9229	6.9053e-04	0.0000e+00
73	EMPTY	0.9375	0.9424	0.9379	1.3381e-03	0.0000e+00
74	EMPTY	0.9521	0.9521	0.9521	0.0000e+00	0.0000e+00
75	EMPTY	0.9668	0.9717	0.9669	6.9053e-04	0.0000e+00
76	EMPTY	0.9766	0.9814	0.9800	2.2603e-03	0.0000e+00
77	EMPTY	0.9961	1.0010	0.9963	9.6055e-04	0.0000e+00
78	EMPTY	1.0156	1.0205	1.0159	1.1714e-03	0.0000e+00
79	EMPTY	1.0352	1.0449	1.0397	1.5314e-03	0.0000e+00
80	PAN020136	-1.9365	-0.8684	-1.4025	2.5930e-01	8.7001e-01
81	PAN050136	-3.6190	-3.1612	-3.4054	1.5719e-01	1.6800e+00
82	PAN070136	-0.4559	0.1544	-0.2545	1.2211e-01	8.7000e-01
83	PAN080136	-1.2734	-0.9682	-1.1147	8.4199e-02	8.7000e-01
84	PAN090136	-1.9864	-1.6812	-1.8292	7.7698e-02	8.7001e-01
85	PAN100136	-1.3320	-0.9506	-1.1688	7.0651e-02	8.7000e-01
86	PAN105136	1.0015	1.3066	1.1403	7.3422e-02	8.7000e-01
87	PAN110136	0.0845	0.3134	0.1654	6.6135e-02	8.7000e-01
88	PAN115136	-0.6638	-0.3586	-0.5096	7.1454e-02	8.7000e-01
89	PAN120136	-1.5559	-1.2507	-1.4537	7.1653e-02	8.7001e-01
90	PAN125136	-1.1392	-0.9103	-1.0598	6.3478e-02	8.7000e-01
91	PAN130136	-1.5105	-1.3579	-1.4387	5.8511e-02	8.7001e-01
92	PAN120048	-2.7817	-2.4765	-2.5986	8.3005e-02	8.7002e-01
93	PAN130048	-2.6467	-2.3415	-2.4514	8.3234e-02	8.7002e-01
94	PAN120224	-1.6768	-1.4479	-1.5670	7.0903e-02	8.7001e-01
95	PAN130224	-2.6980	-2.3165	-2.4996	8.3005e-02	8.7002e-01
96	PAN120312	-1.4993	-1.1178	-1.3314	9.3758e-02	8.7001e-01
97	PAN130312	-2.8843	-2.5792	-2.7531	9.1241e-02	8.7003e-01
98	PAB000136	60.1820	60.4567	60.2937	6.6792e-02	5.9927e-01
99	PAB100136	60.3634	60.5466	60.4394	4.4937e-02	5.9936e-01
100	PAB125136	60.5131	60.6962	60.6083	5.0519e-02	5.9947e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.8831	60.4934	60.1565	1.3180e-01	7.6493e-01
102	PRV000001	19.7336	19.9778	19.8362	5.1496e-02	7.5164e-01
103	PSR000001	60.3055	60.4276	60.3299	4.9324e-02	7.6502e-01
104	PFM000001	18.3774	19.0183	18.7272	1.4290e-01	5.0219e-01
105	PAN000136	-13.4242	-8.3888	-11.0346	9.8870e-01	4.9201e+00
106	PFM000002	18.6001	18.9524	18.7726	8.2972e-02	2.0543e-01
107	EMPTY	-0.0049	0.0049	0.0040	2.1364e-03	0.0000e+00
108	EMPTY	-10.0000	-1.7334	-9.6371	1.2617e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0010	1.9730e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	100.9615	102.1334	101.4654	3.1589e-01	1.0133e+00
113	VPW000002	118.3969	119.5688	119.0063	2.2544e-01	1.0798e+00
114	VPW000003	146.5219	147.4985	147.0766	2.7723e-01	1.1978e+00
115	VPW000004	104.5786	105.5552	104.9966	2.6473e-01	1.0261e+00
116	VPW000005	138.8972	140.0691	139.4833	2.9528e-01	1.1647e+00
117	VPW000006	145.3050	146.4769	145.9183	2.8182e-01	1.1927e+00
118	IPW000001	558.8958	570.6098	566.6271	2.9506e+00	9.2546e+00
119	IPW000002	1278.4568	1290.1644	1283.6084	2.8634e+00	1.2978e+01
120	IPW000003	1301.6248	1317.2247	1311.4139	2.7433e+00	1.3151e+01
121	IPW000004	383.5167	387.9113	385.4601	1.0369e+00	3.6432e+00
122	IPW000005	253.3175	256.2469	255.1044	7.5514e-01	2.8393e+00
123	IPW000006	265.2401	267.6815	266.6464	6.8088e-01	2.9047e+00
124	EMPTY	-0.0293	-0.0146	-0.0224	3.5691e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0149	2.8608e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0182	4.0721e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	2.9594e-03	0.0000e+00
128	IHT000001	130.8819	133.8116	132.3897	6.4843e-01	4.3084e+00
129	IHT000002	130.2547	132.7937	131.7704	6.0304e-01	4.3065e+00
130	IHT000003	129.1504	131.6894	130.7480	6.1345e-01	4.3034e+00
131	IHT000004	131.2988	134.2285	132.9434	6.4608e-01	4.3102e+00
132	IHT000005	129.6462	132.3806	131.2516	6.0010e-01	4.3050e+00
133	IHT000006	125.1916	128.1213	126.8400	6.2285e-01	4.2917e+00
134	IHT000007	131.7833	134.5177	133.2482	5.8294e-01	4.3111e+00
135	IHT000008	130.6490	133.1881	132.0982	5.8805e-01	4.3076e+00
136	IHT000009	130.4875	132.6360	131.6086	5.7428e-01	4.3061e+00
137	IHT000010	130.9044	133.0529	131.9122	4.8706e-01	4.3070e+00
138	IHT000011	131.8059	134.1496	132.8410	4.7719e-01	4.3098e+00
139	IHT000012	130.8030	133.1468	131.9085	5.0163e-01	4.3070e+00
140	IHT000013	92.2025	94.5463	93.2573	5.6909e-01	4.2047e+00
141	IHT000014	127.8621	130.4012	129.0809	5.3022e-01	4.2984e+00
142	IHT000015	94.9294	97.4685	95.8669	5.2050e-01	4.2106e+00
143	IHT000016	88.8033	90.7565	89.7252	5.0074e-01	4.1970e+00
144	IHT000017	104.6612	108.7628	106.8291	9.7317e-01	4.2369e+00
145	IHT000018	107.2040	109.9384	108.3955	5.9222e-01	4.2409e+00
146	IHT000019	107.4256	109.7694	108.8475	5.8798e-01	4.2420e+00
147	IHT000020	105.7767	108.3158	107.1284	6.1364e-01	4.2376e+00
148	IHT000021	-2.9860	0.3343	-1.4704	6.9426e-01	4.1000e+00
149	IHT000022	92.0410	94.5801	93.3535	5.9325e-01	4.2049e+00
150	IHT000023	105.1570	107.8914	106.4734	5.4506e-01	4.2360e+00
151	IHT000024	70.3012	72.6450	71.4614	5.3874e-01	4.1618e+00
152	IHT000025	102.6630	105.3974	103.9404	5.6663e-01	4.2297e+00
153	IHT000026	105.4763	107.8200	106.4802	5.5525e-01	4.2360e+00
154	IHT000027	89.6672	92.2063	90.8235	6.1237e-01	4.1994e+00
155	IHT000028	90.7940	92.7471	91.6807	5.3118e-01	4.2013e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.1974	108.3458	107.1779	5.0144e-01	4.2378e+00
157	IHT000030	108.3120	110.8511	109.6089	5.6326e-01	4.2440e+00
158	IHT000031	106.3927	108.7365	107.5646	5.7858e-01	4.2388e+00
159	IHT000032	107.2378	110.1675	108.5620	5.9620e-01	4.2413e+00
160	IHT000033	107.2190	109.9534	108.5198	5.7265e-01	4.2412e+00
161	IHT000034	94.1293	96.2778	95.1372	5.2104e-01	4.2089e+00
162	IHT000035	124.1587	126.3071	125.1196	5.6337e-01	4.2867e+00
163	IHT000036	93.0063	94.9594	93.8462	5.1031e-01	4.2060e+00

Velocity 1 = 11.0065 (ft/sec) (+/- 3.7182 %)
Velocity 2 = 11.0240 (ft/sec) (+/- 3.5038 %)
Pressure drop = -0.4076 (psi)
Tsat in = 292.9868 (deg F) Tsat out = 293.3118 (deg F)
Phi inner = 99.6486 (kBtu/hr-ft2) (+/- 1.5723 %)
Phi outer = 100.4828 (kBtu/hr-ft2) (+/- 1.5506 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.9899	78.0505	77.6697	1.8862e-01	1.9000e+00
1	TRF000002	77.8305	78.2525	77.9769	1.1561e-01	1.9000e+00
2	TFM000001	86.2659	87.2097	86.6685	2.1546e-01	1.9002e+00
3	TIN000001	86.2174	86.9530	86.6056	1.6644e-01	1.9002e+00
4	TRV000001	86.3750	87.2131	86.7472	2.1061e-01	1.9002e+00
5	TSR000001	126.7807	127.8962	127.4493	2.6172e-01	1.9022e+00
6	EMPTY	37.9974	38.9168	38.4619	2.6326e-01	1.9010e+00
7	TAO050136	138.9415	139.6473	139.2263	1.3889e-01	1.9032e+00
8	TAO070136	142.9471	143.6531	143.3216	1.8633e-01	1.9036e+00
9	TAO080136	144.9202	145.7215	145.3544	1.9513e-01	1.9038e+00
10	TAO090136	172.9320	173.7177	173.3450	1.8903e-01	1.9072e+00
11	TAO100136	151.3125	151.8118	151.5307	1.4071e-01	1.9045e+00
12	TAO105136	151.9418	153.0400	152.5204	2.9725e-01	1.9046e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	160.6441	161.6389	161.0623	2.2522e-01	1.9056e+00
15	EMPTY	36.3865	37.7675	37.1476	3.6751e-01	1.9009e+00
16	TAO125136	164.1833	164.7768	164.4709	1.4006e-01	1.9060e+00
17	EMPTY	44.8706	45.5552	45.2572	2.2437e-01	1.9014e+00
18	EMPTY	41.2111	41.6693	41.5665	1.2426e-01	1.9012e+00
19	TAO130048	152.9260	153.6221	153.2869	1.5568e-01	1.9047e+00
20	TAO120224	156.7670	157.4638	157.0800	1.8825e-01	1.9051e+00
21	EMPTY	39.1464	39.6057	39.2917	1.5327e-01	1.9010e+00
22	TAO120312	160.3635	161.2569	160.8499	2.1668e-01	1.9056e+00
23	TAO130312	154.6625	155.2590	154.9889	1.4649e-01	1.9049e+00
24	EMPTY	39.1464	39.6057	39.3339	1.6685e-01	1.9010e+00
25	TRT070000	143.5336	144.2411	143.8083	1.7717e-01	1.9037e+00
26	TRT100000	155.2717	156.1666	155.7811	2.1829e-01	1.9050e+00
27	TRT120000	157.4237	158.0211	157.7411	1.4867e-01	1.9052e+00
28	TRT125000	159.0192	159.8095	159.4026	1.8888e-01	1.9054e+00
29	EMPTY	39.6057	40.0646	39.9054	1.1667e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.7228	2.1533e-01	1.9011e+00
31	TAF050136	104.5640	105.5952	105.1994	2.2017e-01	1.9008e+00
32	TAF070136	110.7221	111.6452	111.2351	2.2349e-01	1.9011e+00
33	TAF080136	113.2128	114.1330	113.6119	1.9387e-01	1.9013e+00
34	TAF090136	115.6636	116.7912	116.3227	2.5278e-01	1.9014e+00
35	TAF100136	119.9827	120.6997	120.3880	1.7727e-01	1.9017e+00
36	TAF105136	122.3546	123.5718	123.0229	2.5324e-01	1.9019e+00
37	TAF110136	125.3569	126.1692	125.7157	1.7729e-01	1.9021e+00
38	TAF115136	127.5188	128.3304	127.9452	2.1828e-01	1.9023e+00
39	TAF120136	129.6393	130.2482	129.9632	1.4873e-01	1.9024e+00
40	TAF125136	131.2978	132.4074	131.7875	2.8057e-01	1.9026e+00
41	TAF130136	133.0594	133.6672	133.4155	1.6532e-01	1.9027e+00
42	TAF120048	128.8825	129.9033	129.4033	2.3602e-01	1.9024e+00
43	TAF130048	131.2943	132.0044	131.7377	1.6383e-01	1.9026e+00
44	TAF120224	128.5859	129.6011	129.3278	2.0092e-01	1.9024e+00
45	TAF130224	132.0124	132.7236	132.4499	1.6355e-01	1.9026e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9786	2.2430e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2449	1.3257e-01	1.9010e+00
48	TAI130048	161.9050	162.5988	162.2954	1.6238e-01	1.9057e+00
49	TAI130136	162.0921	162.7848	162.4929	1.7128e-01	1.9058e+00
50	TAI130224	162.3132	163.0076	162.6958	1.8338e-01	1.9058e+00
51	TAI130312	160.8310	161.6245	161.2421	1.7425e-01	1.9056e+00
2	TRR130000	118.1158	119.8501	118.9594	4.3797e-01	1.9016e+00
53	TSI000001	41.6226	42.3842	42.0069	2.1658e-01	1.9005e+00
54	TSI000002	91.8697	93.1204	92.4907	3.0981e-01	1.9003e+00
55	TSO000001	40.3860	41.2614	40.8461	2.0098e-01	1.9006e+00
56	TSO000002	48.5612	49.6440	49.0119	2.7735e-01	1.9003e+00
57	TAF020136	93.2055	94.5694	94.0900	2.7593e-01	1.9004e+00
58	EMPTY	42.5851	43.5000	43.1873	2.4119e-01	1.9013e+00
59	TAF130312	133.9220	134.7314	134.3355	1.8883e-01	1.9028e+00
60	EMPTY	1.5283	1.5332	1.5300	2.3483e-03	0.0000e+00
61	EMPTY	1.5332	1.5381	1.5376	1.4934e-03	0.0000e+00
62	EMPTY	1.5430	1.5527	1.5433	1.5467e-03	0.0000e+00
63	EMPTY	1.5527	1.5576	1.5528	6.9754e-04	0.0000e+00
64	EMPTY	0.8057	0.8105	0.8058	6.9754e-04	0.0000e+00
65	EMPTY	0.8252	0.8252	0.8252	0.0000e+00	0.0000e+00
66	EMPTY	0.8350	0.8398	0.8387	2.0584e-03	0.0000e+00
67	EMPTY	0.8496	0.8545	0.8544	6.9754e-04	0.0000e+00
68	EMPTY	0.8643	0.8643	0.8643	0.0000e+00	0.0000e+00
69	EMPTY	0.8789	0.8838	0.8795	1.6172e-03	0.0000e+00
70	EMPTY	0.8936	0.8984	0.8937	6.9754e-04	0.0000e+00
71	EMPTY	0.9131	0.9180	0.9145	2.2287e-03	0.0000e+00
72	EMPTY	0.9277	0.9277	0.9277	0.0000e+00	0.0000e+00
73	EMPTY	0.9424	0.9424	0.9424	0.0000e+00	0.0000e+00
74	EMPTY	0.9521	0.9619	0.9569	1.2165e-03	0.0000e+00
75	EMPTY	0.9717	0.9717	0.9717	0.0000e+00	0.0000e+00
76	EMPTY	0.9814	0.9863	0.9830	2.3135e-03	0.0000e+00
77	EMPTY	1.0010	1.0010	1.0010	0.0000e+00	0.0000e+00
78	EMPTY	1.0205	1.0205	1.0205	0.0000e+00	0.0000e+00
79	EMPTY	1.0400	1.0449	1.0431	2.3783e-03	0.0000e+00
80	PAN020136	-2.0891	-1.0210	-1.4648	2.3958e-01	8.7001e-01
81	PAN050136	-3.7716	-3.0087	-3.3512	1.8303e-01	1.6800e+00
82	PAN070136	-0.4559	0.0781	-0.2504	1.0924e-01	8.7000e-01
83	PAN080136	-1.2734	-0.8919	-1.1224	9.0124e-02	8.7000e-01
84	PAN090136	-1.9864	-1.6049	-1.8042	8.7843e-02	8.7001e-01
85	PAN100136	-1.3320	-0.9506	-1.1250	8.5299e-02	8.7000e-01
86	PAN105136	1.0015	1.2303	1.1432	6.7883e-02	8.7000e-01
87	PAN110136	0.0845	0.3134	0.1717	6.6073e-02	8.7000e-01
88	PAN115136	-0.6638	-0.3586	-0.5065	7.8500e-02	8.7000e-01
89	PAN120136	-1.6322	-1.3270	-1.4640	8.2377e-02	8.7001e-01
90	PAN125136	-1.2155	-0.9866	-1.0831	5.9863e-02	8.7000e-01
91	PAN130136	-1.5105	-1.3579	-1.4451	6.0316e-02	8.7001e-01
92	PAN120048	-2.7817	-2.4002	-2.6088	9.1838e-02	8.7002e-01
93	PAN130048	-2.6467	-2.3415	-2.5034	7.2433e-02	8.7002e-01
94	PAN120224	-1.6768	-1.4479	-1.5741	6.8860e-02	8.7001e-01
95	PAN130224	-2.6980	-2.3165	-2.4894	9.6976e-02	8.7002e-01
96	PAN120312	-1.5756	-1.1941	-1.3482	8.4571e-02	8.7001e-01
97	PAN130312	-2.9606	-2.5792	-2.7458	8.6251e-02	8.7003e-01
98	PAB000136	60.1820	60.5025	60.3427	6.4143e-02	5.9930e-01
99	PAB100136	60.3634	60.5923	60.4746	5.2026e-02	5.9938e-01
100	PAB125136	60.5589	60.6962	60.6383	4.5562e-02	5.9948e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.7610	60.3713	60.1546	1.3247e-01	7.6493e-01
102	PRV0000001	19.9778	20.3440	20.0874	6.2268e-02	7.5168e-01
103	PSR0000001	60.3055	60.4276	60.3703	6.1552e-02	7.6504e-01
104	PFM0000001	18.4690	19.1098	18.7530	1.3508e-01	5.0219e-01
105	PAN000136	-15.2552	-8.8465	-11.2848	1.1980e+00	4.9201e+00
106	PFM0000002	18.5665	19.0699	18.8131	1.1335e-01	2.0546e-01
107	EMPTY	-0.0049	0.0049	0.0034	3.1838e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-9.3209	3.1452e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0022	2.6485e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	100.9615	101.7428	101.4797	2.0152e-01	1.0133e+00
113	VPW0000002	118.7876	119.3735	119.0507	1.5208e-01	1.0800e+00
114	VPW0000003	146.9126	147.4985	147.1438	1.5272e-01	1.1981e+00
115	VPW0000004	104.7739	105.3598	105.0609	1.3869e-01	1.0264e+00
116	VPW0000005	139.0925	139.8738	139.4952	1.8011e-01	1.1647e+00
117	VPW0000006	145.6956	146.4769	146.0424	1.8812e-01	1.1933e+00
118	IPW0000001	556.9434	566.7051	563.0394	2.7505e+00	9.2409e+00
119	IPW0000002	1282.3594	1297.9695	1289.4082	4.3780e+00	1.3014e+01
120	IPW0000003	1305.5248	1321.1248	1314.4789	3.5360e+00	1.3170e+01
121	IPW0000004	380.5870	384.4933	382.5103	9.0479e-01	3.6237e+00
122	IPW0000005	253.8057	255.7586	254.8320	4.7004e-01	2.8378e+00
123	IPW0000006	264.7518	267.1932	266.3064	6.3565e-01	2.9028e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	3.7375e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.7902e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	3.9305e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.0238e-03	0.0000e+00
128	IHT0000001	131.0772	133.2257	132.2690	5.1712e-01	4.3081e+00
129	IHT0000002	130.4500	132.5984	131.6737	4.7970e-01	4.3063e+00
130	IHT0000003	129.3457	131.6894	130.6929	4.8705e-01	4.3033e+00
131	IHT0000004	131.4941	134.0332	132.8414	4.9834e-01	4.3098e+00
132	IHT0000005	129.8415	132.3806	131.1090	4.7862e-01	4.3045e+00
133	IHT0000006	125.5822	128.3166	126.7540	5.2438e-01	4.2915e+00
134	IHT0000007	132.1740	134.3224	133.1665	4.5603e-01	4.3108e+00
135	IHT0000008	131.0396	133.1881	131.9883	4.8337e-01	4.3072e+00
136	IHT0000009	130.4875	132.6360	131.5158	5.0394e-01	4.3058e+00
137	IHT0000010	130.9044	132.8576	131.9487	5.2522e-01	4.3071e+00
138	IHT0000011	132.0012	134.1496	133.0136	4.7621e-01	4.3104e+00
139	IHT0000012	130.9984	133.1468	132.0706	5.1540e-01	4.3075e+00
140	IHT0000013	92.3978	94.5463	93.3027	4.8615e-01	4.2048e+00
141	IHT0000014	128.0574	130.5965	129.0938	5.0619e-01	4.2984e+00
142	IHT0000015	95.1247	97.2731	95.9259	4.6020e-01	4.2107e+00
143	IHT0000016	88.8033	90.9518	89.7280	4.7135e-01	4.1970e+00
144	IHT0000017	104.4659	108.5675	106.5306	1.3390e+00	4.2361e+00
145	IHT0000018	107.3993	109.9384	108.3401	6.4492e-01	4.2407e+00
146	IHT0000019	107.6209	109.9647	108.8008	6.1241e-01	4.2419e+00
147	IHT0000020	105.7767	108.5111	107.1281	6.3519e-01	4.2376e+00
148	IHT0000021	-2.7907	0.1390	-1.4116	7.1808e-01	4.1000e+00
149	IHT0000022	92.0410	95.1660	93.3604	6.3730e-01	4.2050e+00
150	IHT0000023	105.3523	108.0867	106.4684	6.0856e-01	4.2360e+00
151	IHT0000024	70.4965	73.2309	71.4851	6.0648e-01	4.1619e+00
152	IHT0000025	102.8583	105.5927	103.9386	6.1260e-01	4.2297e+00
153	IHT0000026	105.2810	108.0153	106.4090	6.1410e-01	4.2358e+00
154	IHT0000027	89.6672	92.4016	90.7753	5.9986e-01	4.1993e+00
155	IHT0000028	90.5987	92.9425	91.6470	5.2543e-01	4.2012e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.1974	108.3458	107.1620	4.7241e-01	4.2377e+00
157	IHT000030	108.7027	110.8511	109.6194	5.1552e-01	4.2440e+00
158	IHT000031	106.7834	108.7365	107.5367	4.7508e-01	4.2387e+00
159	IHT000032	107.6285	109.5816	108.5213	5.1675e-01	4.2412e+00
160	IHT000033	107.6097	109.5628	108.4587	5.1760e-01	4.2410e+00
161	IHT000034	94.1293	96.0825	95.0741	4.6723e-01	4.2088e+00
162	IHT000035	124.3540	126.1118	125.0794	4.9314e-01	4.2865e+00
163	IHT000036	93.0063	94.9594	93.8115	4.8277e-01	4.2060e+00

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Velocity 1 = 0.008201 (ft/sec)
Velocity 2 = 0.012500 (ft/sec)
Pressure Drop = 0.009000 (psi)
Tsats in = 0.053986 (deg F) Tsats out = 0.032990 (deg F)
Phi inner = 0.224098 (kBtu/hr-ft2) Phi outer = 0.025002 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0348	0.0448
1	TRF000002	0.0535	0.0687
2	TFM000001	0.8214	0.9568
3	TIN000001	0.8548	0.9968
4	TRV000001	0.2293	0.2650
5	TSR000001	0.2395	0.1876
6	EMPTY	0.0047	0.0122
7	TAO050136	0.4835	0.3485
8	TAO070136	0.4717	0.3302
9	TAO080136	0.5356	0.3698
10	TAO090136	1.4703	0.8411
11	TAO100136	0.3895	0.2577
12	TAO105136	0.2749	0.1806
13	EMPTY	0.0000	0.0000
14	TAO115136	0.4224	0.2630
15	EMPTY	0.1505	0.4035
16	TAO125136	0.3840	0.2340
17	EMPTY	0.0032	0.0071
18	EMPTY	0.0341	0.0820
19	TAO130048	0.4562	0.2985
20	TAO120224	0.4120	0.2630
21	EMPTY	0.0339	0.0862
22	TAO120312	0.4746	0.2959
23	TAO130312	0.4576	0.2961
24	EMPTY	0.0175	0.0445
25	TRT070000	0.5332	0.3722
26	TRT100000	0.4136	0.2662
27	TRT120000	0.4475	0.2845
28	TRT125000	0.4380	0.2755
29	EMPTY	0.0105	0.0263
30	EMPTY	0.0116	0.0292
31	TAF050136	0.8085	0.7745
32	TAF070136	0.6921	0.6261
33	TAF080136	0.7445	0.6596
34	TAF090136	0.7203	0.6231
35	TAF100136	0.6472	0.5405
36	TAF105136	0.6182	0.5050
37	TAF110136	0.6333	0.5063
38	TAF115136	0.6252	0.4910
39	TAF120136	0.6648	0.5142
40	TAF125136	0.5332	0.4062
41	TAF130136	0.5645	0.4249
42	TAF120048	0.5580	0.4331
43	TAF130048	0.5760	0.4392
44	TAF120224	0.4769	0.3701
45	TAF130224	0.5438	0.4123

#	Name	Abs Diff	%Diff
46	EMPTY	0.0510	0.1341
47	EMPTY	0.0669	0.1702
48	TAI130048	0.4179	0.2582
49	TAI130136	0.4462	0.2754
50	TAI130224	0.4384	0.2702
51	TAI130312	0.4666	0.2902
52	TRR130000	3.4501	2.8185
53	TSI000001	0.1899	0.4500
54	TSI000002	0.2708	0.2919
55	TSO000001	0.2933	0.7129
56	TSO000002	0.2162	0.4392
57	TAF020136	0.7087	0.7589
58	EMPTY	0.1114	0.2573
59	TAF130312	0.5574	0.4167
60	EMPTY	0.0113	0.7441
61	EMPTY	0.0127	0.8328
62	EMPTY	0.0113	0.7376
63	EMPTY	0.0104	0.6743
64	EMPTY	0.0049	0.6118
65	EMPTY	0.0052	0.6341
66	EMPTY	0.0042	0.5033
67	EMPTY	0.0051	0.6005
68	EMPTY	0.0048	0.5585
69	EMPTY	0.0051	0.5833
70	EMPTY	0.0050	0.5626
71	EMPTY	0.0039	0.4283
72	EMPTY	0.0048	0.5201
73	EMPTY	0.0045	0.4798
74	EMPTY	0.0048	0.5042
75	EMPTY	0.0048	0.4964
76	EMPTY	0.0030	0.3061
77	EMPTY	0.0047	0.4718
78	EMPTY	0.0046	0.4528
79	EMPTY	0.0034	0.3270
80	PAN020136	0.0623	4.4421
81	PAN050136	0.0542	1.5916
82	PAN070136	0.0041	1.6110
83	PAN080136	0.0077	0.6908
84	PAN090136	0.0250	1.3667
85	PAN100136	0.0438	3.7474
86	PAN105136	0.0029	0.2543
87	PAN110136	0.0063	3.8089
88	PAN115136	0.0031	0.6083
89	PAN120136	0.0103	0.7085
90	PAN125136	0.0233	2.1985
91	PAN130136	0.0064	0.4448
92	PAN120048	0.0102	0.3925
93	PAN130048	0.0520	2.1212
94	PAN120224	0.0071	0.4531
95	PAN130224	0.0102	0.4081
96	PAN120312	0.0168	1.2618
97	PAN130312	0.0073	0.2652
98	PAB000136	0.0490	0.0813
99	PAB100136	0.0352	0.0582
100	PAB125136	0.0300	0.0495

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0019	0.0032
102	PRV000001	0.2512	1.2664
103	PSR000001	0.0404	0.0670
104	PFM000001	0.0258	0.1378
105	PAN000136	0.2502	2.2674
106	PFM000002	0.0405	0.2157
107	EMPTY	0.0006	15.0000
108	EMPTY	0.3162	3.2811
109	EMPTY	0.0012	120.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0143	0.0141
113	VPW000002	0.0444	0.0373
114	VPW000003	0.0672	0.0457
115	VPW000004	0.0643	0.0612
116	VPW000005	0.0119	0.0085
117	VPW000006	0.1241	0.0850
118	IPW000001	3.5876	0.6332
119	IPW000002	5.7998	0.4518
120	IPW000003	3.0649	0.2337
121	IPW000004	2.9498	0.7653
122	IPW000005	0.2724	0.1068
123	IPW000006	0.3400	0.1275
124	EMPTY	0.0007	3.1250
125	EMPTY	0.0007	4.6980
126	EMPTY	0.0004	2.1978
127	EMPTY	0.0005	3.0120
128	IHT000001	0.1207	0.0912
129	IHT000002	0.0967	0.0734
130	IHT000003	0.0551	0.0421
131	IHT000004	0.1020	0.0767
132	IHT000005	0.1426	0.1087
133	IHT000006	0.0860	0.0678
134	IHT000007	0.0817	0.0613
135	IHT000008	0.1099	0.0832
136	IHT000009	0.0928	0.0705
137	IHT000010	0.0365	0.0277
138	IHT000011	0.1726	0.1299
139	IHT000012	0.1621	0.1229
140	IHT000013	0.0454	0.0487
141	IHT000014	0.0129	0.0100
142	IHT000015	0.0590	0.0615
143	IHT000016	0.0028	0.0031
144	IHT000017	0.2985	0.2794
145	IHT000018	0.0554	0.0511
146	IHT000019	0.0467	0.0429
147	IHT000020	0.0003	0.0003
148	IHT000021	0.0588	3.9989
149	IHT000022	0.0069	0.0074
150	IHT000023	0.0050	0.0047
151	IHT000024	0.0237	0.0332
152	IHT000025	0.0018	0.0017
153	IHT000026	0.0712	0.0669
154	IHT000027	0.0482	0.0531
155	IHT000028	0.0337	0.0368

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dIf

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#	Name	Abs DIf	%DIf
156	IHT0000029	0.0159	0.0148
157	IHT0000030	0.0105	0.0096
158	IHT0000031	0.0279	0.0259
159	IHT0000032	0.0407	0.0375
160	IHT0000033	0.0611	0.0563
161	IHT0000034	0.0631	0.0663
162	IHT0000035	0.0402	0.0321
163	IHT0000036	0.0347	0.0370

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Velocity 1 = 16.9803 (ft/sec) (+/- 3.5154 %)
Velocity 2 = 13.3260 (ft/sec) (+/- 3.4863 %)
Pressure drop = 6.1858 (psi)
Tsat in = 292.7582 (deg F) Tsat out = 285.8310 (deg F)
Phi inner = 99.6886 (kBtu/hr-ft2) (+/- 1.5721 %)
Phi outer = 101.0102 (kBtu/hr-ft2) (+/- 1.5486 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.6264	78.0505	77.8342	1.6308e-01	1.9000e+00
1	TRF000002	78.0415	78.4635	78.1301	1.1349e-01	1.9000e+00
2	TFM000001	84.9033	85.8482	85.2898	1.9597e-01	1.9002e+00
3	TIN000001	84.9556	85.4816	85.2712	1.2209e-01	1.9002e+00
4	TRV000001	85.2240	85.8531	85.5682	1.6269e-01	1.9002e+00
5	TSR000001	115.0786	115.6932	115.3490	1.4745e-01	1.9014e+00
6	EMPTY	37.9974	38.9168	38.4020	2.3012e-01	1.9010e+00
7	TAO050136	122.7887	123.3991	123.0895	1.6197e-01	1.9019e+00
8	TAO070136	124.9520	125.6672	125.3445	2.0578e-01	1.9021e+00
9	TAO080136	126.5383	127.2484	126.8509	1.6762e-01	1.9022e+00
10	TAO090136	154.8575	155.7529	155.2317	1.9946e-01	1.9049e+00
11	TAO100136	129.9957	130.7057	130.4176	1.4306e-01	1.9025e+00
12	TAO105136	130.9187	132.0339	131.4095	2.9419e-01	1.9025e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	137.3380	138.1476	137.7106	2.0894e-01	1.9031e+00
15	EMPTY	37.3074	37.5374	37.3810	1.0842e-01	1.9009e+00
16	TAO125136	139.3481	140.0506	139.7011	1.6651e-01	1.9033e+00
17	EMPTY	44.8706	45.5552	45.1992	2.1207e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6189	1.0644e-01	1.9012e+00
19	TAO130048	130.5982	131.3065	130.9503	1.4058e-01	1.9025e+00
20	TAO120224	133.3922	134.1009	133.7486	1.8770e-01	1.9027e+00
21	EMPTY	38.9168	39.6057	39.2291	1.2924e-01	1.9010e+00
22	TAO120312	136.4036	137.4150	136.9618	2.7420e-01	1.9030e+00
23	TAO130312	132.0228	132.6294	132.3385	1.5657e-01	1.9026e+00
24	EMPTY	38.9168	39.8352	39.2888	2.2675e-01	1.9010e+00
25	TRT070000	124.1712	124.9909	124.6466	1.7271e-01	1.9020e+00
26	TRT100000	133.0278	133.9378	133.5213	2.1093e-01	1.9027e+00
27	TRT120000	133.4674	134.3780	133.9127	1.7587e-01	1.9027e+00
28	TRT125000	135.2338	136.3402	135.7610	2.1471e-01	1.9029e+00
29	EMPTY	39.6057	40.0646	39.8581	9.5578e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6607	2.1028e-01	1.9011e+00
31	TAF050136	97.2244	97.9516	97.5735	1.8735e-01	1.9005e+00
32	TAF070136	101.2713	102.0974	101.6147	2.1329e-01	1.9007e+00
33	TAF080136	102.5654	103.2878	102.9327	1.8549e-01	1.9007e+00
34	TAF090136	104.2362	105.2700	104.7903	2.3145e-01	1.9008e+00
35	TAF100136	107.1146	107.8385	107.4042	1.8451e-01	1.9009e+00
36	TAF105136	108.7366	109.6592	109.2285	2.1294e-01	1.9010e+00
37	TAF110136	110.5895	111.1030	110.8646	1.4301e-01	1.9011e+00
38	TAF115136	112.1150	112.8343	112.4767	1.9497e-01	1.9012e+00
39	TAF120136	113.4912	114.0042	113.7293	1.5698e-01	1.9013e+00
40	TAF125136	114.3836	115.5072	114.9801	2.6206e-01	1.9014e+00
41	TAF130136	115.6820	116.1947	115.8913	1.5213e-01	1.9014e+00
42	TAF120048	112.8307	113.6573	113.3478	2.0453e-01	1.9013e+00
43	TAF130048	114.4762	114.9897	114.7350	1.5696e-01	1.9013e+00
44	TAF120224	112.7824	113.7065	113.1851	1.9879e-01	1.9013e+00
45	TAF130224	114.5912	115.2096	114.8960	1.5969e-01	1.9014e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9054	2.2761e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1281	7.8197e-02	1.9010e+00
48	TAI130048	138.2169	138.8223	138.5076	1.6001e-01	1.9032e+00
49	TAI130136	137.8972	138.6018	138.2475	1.4851e-01	1.9031e+00
50	TAI130224	138.1704	138.9789	138.5184	1.7454e-01	1.9032e+00
51	TAI130312	137.0010	137.7080	137.3970	1.6305e-01	1.9031e+00
52	TRR130000	111.8805	114.1334	112.8189	5.5589e-01	1.9012e+00
53	TSI000001	41.6233	42.3849	41.8846	1.8659e-01	1.9005e+00
54	TSI000002	93.1204	94.1618	93.6367	2.6275e-01	1.9004e+00
55	TSO000001	40.7131	41.4795	41.0158	1.9201e-01	1.9006e+00
56	TSO000002	47.4769	48.2365	47.8806	1.8722e-01	1.9003e+00
57	TAF020136	89.6258	90.4680	89.9834	1.7906e-01	1.9003e+00
58	EMPTY	42.5851	43.5000	43.0700	2.5990e-01	1.9012e+00
59	TAF130312	115.9306	116.5457	116.2259	1.6388e-01	1.9014e+00
60	EMPTY	1.0938	1.0986	1.0961	2.4642e-03	0.0000e+00
61	EMPTY	1.1035	1.1133	1.1058	2.6488e-03	0.0000e+00
62	EMPTY	1.1133	1.1182	1.1145	2.1065e-03	0.0000e+00
63	EMPTY	1.1230	1.1328	1.1281	1.9631e-03	0.0000e+00
64	EMPTY	0.6201	0.6250	0.6233	2.3365e-03	0.0000e+00
65	EMPTY	0.6396	0.6494	0.6445	9.8648e-04	0.0000e+00
66	EMPTY	0.6592	0.6641	0.6594	9.6655e-04	0.0000e+00
67	EMPTY	0.6738	0.6787	0.6784	1.1714e-03	0.0000e+00
68	EMPTY	0.6885	0.6934	0.6914	2.4164e-03	0.0000e+00
69	EMPTY	0.7080	0.7129	0.7081	6.9053e-04	0.0000e+00
70	EMPTY	0.7227	0.7275	0.7237	2.0432e-03	0.0000e+00
71	EMPTY	0.7471	0.7471	0.7471	0.0000e+00	0.0000e+00
72	EMPTY	0.7568	0.7617	0.7607	1.9730e-03	0.0000e+00
73	EMPTY	0.7764	0.7813	0.7795	2.3675e-03	0.0000e+00
74	EMPTY	0.7910	0.8008	0.7957	1.6972e-03	0.0000e+00
75	EMPTY	0.8105	0.8154	0.8107	9.6655e-04	0.0000e+00
76	EMPTY	0.8252	0.8252	0.8252	0.0000e+00	0.0000e+00
77	EMPTY	0.8398	0.8447	0.8446	6.9053e-04	0.0000e+00
78	EMPTY	0.8643	0.8691	0.8667	2.4662e-03	0.0000e+00
79	EMPTY	0.8887	0.8936	0.8888	6.9053e-04	0.0000e+00
80	PAN020136	20.4939	22.2486	21.3255	4.3712e-01	8.7163e-01
81	PAN050136	38.6478	40.0211	39.4413	3.0205e-01	1.6829e+00
82	PAN070136	31.2823	32.1979	31.7676	2.2110e-01	8.7362e-01
83	PAN080136	12.9173	13.4513	13.1873	1.2059e-01	8.7062e-01
84	PAN090136	11.8228	12.3569	12.1265	1.0952e-01	8.7053e-01
85	PAN100136	12.6298	13.0875	12.9288	1.1723e-01	8.7060e-01
86	PAN105136	10.2330	10.5382	10.3994	8.5390e-02	8.7039e-01
87	PAN110136	8.1716	8.5531	8.3990	1.0281e-01	8.7025e-01
88	PAN115136	6.1264	6.5079	6.3766	8.9929e-02	8.7015e-01
89	PAN120136	4.0898	4.3950	4.2302	7.4498e-02	8.7006e-01
90	PAN125136	4.8880	5.2695	5.0330	7.7453e-02	8.7009e-01
91	PAN130136	4.1353	4.5168	4.3184	9.1189e-02	8.7007e-01
92	PAN120048	10.1883	10.7224	10.4706	1.2355e-01	8.7039e-01
93	PAN130048	9.4078	10.0944	9.7694	1.2693e-01	8.7034e-01
94	PAN120224	11.4457	12.0561	11.8333	1.2219e-01	8.7050e-01
95	PAN130224	9.3564	9.8142	9.6280	1.1238e-01	8.7033e-01
96	PAN120312	11.8522	12.3862	12.1161	1.4060e-01	8.7053e-01
97	PAN130312	8.4835	9.0175	8.8283	1.1662e-01	8.7028e-01
98	PAB000136	59.9074	60.3652	60.1353	8.5008e-02	5.9917e-01
99	PAB100136	55.0992	55.3280	55.2228	5.7940e-02	5.9620e-01
100	PAB125136	53.9671	54.1960	54.0614	5.5804e-02	5.9554e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.6389	60.2493	59.9148	1.7405e-01	7.6481e-01
102	PRV0000001	19.8557	20.0998	19.9607	4.9385e-02	7.5166e-01
103	PSR0000001	52.7372	52.9813	52.8958	6.1655e-02	7.6157e-01
104	PFM0000001	44.3784	45.6601	44.9112	3.6793e-01	5.1245e-01
105	PAN000136	168.3080	176.0900	171.2560	1.8638e+00	4.9386e+00
106	PFM0000002	27.5773	27.5773	27.5773	9.6336e-06	2.1155e-01
107	EMPTY	0.0049	0.0098	0.0066	2.3675e-03	0.0000e+00
108	EMPTY	-10.0000	-8.3008	-9.7087	4.7379e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0050	1.2041e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW0000001	101.1569	101.7428	101.4615	1.3182e-01	1.0133e+00
113	VPW0000002	118.7876	119.1782	119.0415	9.8648e-02	1.0799e+00
114	VPW0000003	146.7173	147.3032	147.0102	1.3811e-01	1.1976e+00
115	VPW0000004	104.3833	105.3598	105.0317	1.7840e-01	1.0263e+00
116	VPW0000005	139.0925	139.6785	139.3778	1.2608e-01	1.1642e+00
117	VPW0000006	145.5003	145.8909	145.7582	1.1464e-01	1.1920e+00
118	IPW0000001	560.8481	564.7528	562.8395	1.2775e+00	9.2402e+00
119	IPW0000002	1297.9695	1305.7747	1302.0281	1.7997e+00	1.3092e+01
120	IPW0000003	1313.3248	1321.1248	1316.6400	1.4872e+00	1.3183e+01
121	IPW0000004	381.5636	384.0050	382.9503	6.7167e-01	3.6266e+00
122	IPW0000005	254.2939	255.7586	255.1044	3.2129e-01	2.8393e+00
123	IPW0000006	265.2401	267.6815	266.4901	6.0938e-01	2.9038e+00
124	EMPTY	-0.0293	-0.0146	-0.0220	4.6532e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0144	2.6853e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0177	4.1725e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	2.9986e-03	0.0000e+00
128	IHT0000001	131.4678	133.6163	132.4287	5.5220e-01	4.3086e+00
129	IHT0000002	130.8406	133.1844	131.8680	5.5216e-01	4.3068e+00
130	IHT0000003	129.9316	132.0801	130.8730	5.3625e-01	4.3038e+00
131	IHT0000004	131.8848	134.4238	133.0918	5.4632e-01	4.3106e+00
132	IHT0000005	130.0368	132.3806	131.2829	5.1734e-01	4.3051e+00
133	IHT0000006	125.5822	128.3166	126.9884	5.5383e-01	4.2922e+00
134	IHT0000007	132.3693	134.7130	133.4904	5.2022e-01	4.3118e+00
135	IHT0000008	130.8443	133.1881	132.2037	4.7508e-01	4.3079e+00
136	IHT0000009	130.4875	132.6360	131.7296	4.7476e-01	4.3064e+00
137	IHT0000010	131.0998	133.0529	131.8771	4.2771e-01	4.3069e+00
138	IHT0000011	131.8059	133.9543	132.8605	4.4643e-01	4.3099e+00
139	IHT0000012	130.9984	132.9515	131.8773	4.8688e-01	4.3069e+00
140	IHT0000013	92.3978	94.5463	93.3510	5.0477e-01	4.2049e+00
141	IHT0000014	127.6668	130.5965	128.9832	5.3352e-01	4.2981e+00
142	IHT0000015	94.9294	97.4685	95.9333	5.2941e-01	4.2107e+00
143	IHT0000016	88.6080	90.9518	89.6588	5.1280e-01	4.1969e+00
144	IHT0000017	104.6612	107.3956	105.8487	7.2312e-01	4.2344e+00
145	IHT0000018	107.2040	109.7431	108.1923	5.3730e-01	4.2403e+00
146	IHT0000019	107.6209	109.7694	108.6678	5.0495e-01	4.2416e+00
147	IHT0000020	105.9721	108.1205	106.9977	5.0731e-01	4.2373e+00
148	IHT0000021	-2.7907	-0.4470	-1.7087	5.6663e-01	4.1000e+00
149	IHT0000022	92.4316	94.3848	93.2207	4.6179e-01	4.2046e+00
150	IHT0000023	105.3523	107.3054	106.3563	4.6690e-01	4.2357e+00
151	IHT0000024	70.4965	72.6450	71.3677	4.5199e-01	4.1617e+00
152	IHT0000025	102.8583	104.8114	103.7998	4.4238e-01	4.2294e+00
153	IHT0000026	105.4763	107.2341	106.3083	3.9619e-01	4.2356e+00
154	IHT0000027	89.8625	91.6204	90.6946	3.9815e-01	4.1991e+00
155	IHT0000028	90.5987	92.7471	91.5596	5.0815e-01	4.2010e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0021	107.9552	107.0568	4.7679e-01	4.2375e+00
157	IHT000030	108.3120	110.6558	109.5230	5.4104e-01	4.2438e+00
158	IHT000031	106.3927	108.5412	107.4904	5.2034e-01	4.2386e+00
159	IHT000032	107.4332	109.3863	108.5073	5.4712e-01	4.2412e+00
160	IHT000033	107.4144	109.3675	108.4652	5.4088e-01	4.2410e+00
161	IHT000034	94.1293	96.2778	95.2075	5.2384e-01	4.2091e+00
162	IHT000035	124.1587	126.1118	125.0767	5.0262e-01	4.2865e+00
163	IHT000036	92.8110	95.1547	93.8735	4.9781e-01	4.2061e+00

Velocity 1 = 16.9230 (ft/sec) (+/- 3.5160 %)
Velocity 2 = 13.3264 (ft/sec) (+/- 3.4863 %)
Pressure drop = 6.1417 (psi)
Tsats in = 292.6993 (deg F) Tsats out = 285.7869 (deg F)
Phi inner = 99.5003 (kBtu/hr-ft2) (+/- 1.5726 %)
Phi outer = 100.7177 (kBtu/hr-ft2) (+/- 1.5493 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	77.6264	78.2625	77.9380	1.8415e-01	1.9000e+00
1	TRF0000002	78.0415	78.4635	78.1664	1.2118e-01	1.9000e+00
2	TFM0000001	85.2180	86.0578	85.6339	2.0100e-01	1.9002e+00
3	TIN0000001	85.2708	85.7972	85.5245	1.7427e-01	1.9002e+00
4	TRV0000001	85.4335	86.2731	85.9025	1.9026e-01	1.9002e+00
5	TSR0000001	113.3393	114.3649	113.9816	2.2022e-01	1.9013e+00
6	EMPTY	37.9974	38.9168	38.4947	2.3148e-01	1.9010e+00
7	TAO050136	122.9919	123.8062	123.3738	2.0203e-01	1.9019e+00
8	TAO070136	125.2588	126.0754	125.6216	1.9679e-01	1.9021e+00
9	TAO080136	126.8427	127.5525	127.1735	1.6926e-01	1.9022e+00
10	TAO090136	152.6684	153.4662	153.0897	1.9852e-01	1.9046e+00
11	TAO100136	130.4011	131.0100	130.7138	1.4612e-01	1.9025e+00
12	TAC105136	131.1214	132.4391	131.7691	3.0743e-01	1.9026e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	137.5406	138.4513	138.0033	2.0020e-01	1.9031e+00
15	EMPTY	37.3074	37.5374	37.4060	1.1504e-01	1.9009e+00
16	TAO125136	139.7491	140.4525	140.0401	1.5675e-01	1.9033e+00
17	EMPTY	44.8706	45.5552	45.2385	1.9660e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6413	8.9119e-02	1.9012e+00
19	TAO130048	131.0020	131.7111	131.3225	1.5650e-01	1.9025e+00
20	TAO120224	133.6956	134.4046	134.0554	2.0560e-01	1.9028e+00
21	EMPTY	39.1464	39.6057	39.2308	1.3001e-01	1.9010e+00
22	TAO120312	136.8082	137.7178	137.3013	2.0798e-01	1.9030e+00
23	TAO130312	132.3264	132.9336	132.6647	1.3945e-01	1.9026e+00
24	EMPTY	38.9168	39.6057	39.2589	1.9395e-01	1.9010e+00
25	TRT070000	124.7861	125.5019	125.1355	1.8193e-01	1.9020e+00
26	TRT100000	133.5329	134.4430	133.9210	2.1579e-01	1.9028e+00
27	TRT120000	133.9729	134.6815	134.2788	1.8981e-01	1.9028e+00
28	TRT125000	135.7367	136.7428	136.1921	2.0242e-01	1.9029e+00
29	EMPTY	39.6057	40.0646	39.8727	1.3534e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.7040	2.0423e-01	1.9011e+00
31	TAF050136	97.5362	98.2631	97.9046	1.7101e-01	1.9005e+00
32	TAF070136	101.5816	102.6149	101.9651	2.1299e-01	1.9007e+00
33	TAF080136	102.8744	103.7005	103.2744	1.9729e-01	1.9007e+00
34	TAF090136	104.6493	105.6838	105.1730	2.7220e-01	1.9008e+00
35	TAF100136	107.3215	108.1487	107.7499	1.9107e-01	1.9010e+00
36	TAF105136	109.0443	109.9667	109.5623	2.4765e-01	1.9011e+00
37	TAF110136	110.7949	111.6164	111.2009	1.7293e-01	1.9011e+00
38	TAF115136	112.3203	113.2451	112.8424	1.8264e-01	1.9012e+00
39	TAF120136	113.7987	114.4140	114.0995	1.4879e-01	1.9013e+00
40	TAF125136	114.5875	115.8138	115.3317	2.8876e-01	1.9014e+00
41	TAF130136	115.8866	116.7065	116.2945	1.7816e-01	1.9014e+00
42	TAF120048	113.2447	114.2779	113.7466	2.3852e-01	1.9013e+00
43	TAF130048	114.8865	115.6052	115.2114	1.6677e-01	1.9014e+00
44	TAF120224	113.1927	114.3220	113.6225	2.2138e-01	1.9013e+00
45	TAF130224	115.0038	115.7235	115.3209	1.8044e-01	1.9014e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9786	1.9824e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1746	7.6055e-02	1.9010e+00
48	TAI130048	138.6207	139.3265	138.9498	1.8034e-01	1.9032e+00
49	TAI130136	138.2990	139.0043	138.6875	1.4546e-01	1.9032e+00
50	TAI130224	138.5747	139.3829	138.9337	2.2296e-01	1.9032e+00
51	TAI130312	137.5062	138.2130	137.8770	1.6145e-01	1.9031e+00
52	TRR130000	114.3380	115.8731	115.2149	3.8044e-01	1.9014e+00
53	TSI000001	41.1886	42.0597	41.6131	1.8621e-01	1.9005e+00
54	TSI000002	91.9740	93.2251	92.6022	2.9820e-01	1.9003e+00
55	TSO000001	40.2754	41.1508	40.7245	2.2804e-01	1.9006e+00
56	TSO000002	47.1519	48.0198	47.5704	2.1694e-01	1.9003e+00
57	TAF020136	90.0474	90.8880	90.3967	1.9825e-01	1.9003e+00
58	EMPTY	42.5851	43.5000	43.1406	2.8009e-01	1.9013e+00
59	TAF130312	116.4423	117.0571	116.7104	1.7095e-01	1.9015e+00
60	EMPTY	1.1035	1.1084	1.1060	2.4662e-03	0.0000e+00
61	EMPTY	1.1133	1.1182	1.1157	2.4662e-03	0.0000e+00
62	EMPTY	1.1230	1.1279	1.1251	2.4414e-03	0.0000e+00
63	EMPTY	1.1328	1.1377	1.1374	1.1827e-03	0.0000e+00
64	EMPTY	0.6250	0.6299	0.6251	6.9754e-04	0.0000e+00
65	EMPTY	0.6445	0.6445	0.6445	0.0000e+00	0.0000e+00
66	EMPTY	0.6592	0.6592	0.6592	0.0000e+00	0.0000e+00
67	EMPTY	0.6738	0.6787	0.6763	2.4662e-03	0.0000e+00
68	EMPTY	0.6885	0.6934	0.6887	9.7615e-04	0.0000e+00
69	EMPTY	0.7031	0.7080	0.7052	2.4414e-03	0.0000e+00
70	EMPTY	0.7178	0.7227	0.7195	2.3483e-03	0.0000e+00
71	EMPTY	0.7422	0.7422	0.7422	0.0000e+00	0.0000e+00
72	EMPTY	0.7520	0.7568	0.7558	1.9883e-03	0.0000e+00
73	EMPTY	0.7715	0.7764	0.7718	1.1827e-03	0.0000e+00
74	EMPTY	0.7861	0.7910	0.7862	6.9754e-04	0.0000e+00
75	EMPTY	0.8008	0.8057	0.8043	2.2287e-03	0.0000e+00
76	EMPTY	0.8154	0.8203	0.8161	1.7263e-03	0.0000e+00
77	EMPTY	0.8350	0.8350	0.8350	0.0000e+00	0.0000e+00
78	EMPTY	0.8545	0.8594	0.8580	2.2287e-03	0.0000e+00
79	EMPTY	0.8789	0.8789	0.8789	0.0000e+00	0.0000e+00
80	PAN020136	20.4176	22.4775	21.4857	4.6277e-01	8.7166e-01
81	PAN050136	38.3427	39.8685	39.1772	3.1932e-01	1.6829e+00
82	PAN070136	31.0535	32.0453	31.5642	2.0198e-01	8.7357e-01
83	PAN080136	12.8410	13.4513	13.0807	1.2936e-01	8.7061e-01
84	PAN090136	11.7465	12.2043	12.0330	1.0737e-01	8.7052e-01
85	PAN100136	12.5535	13.0875	12.8073	1.2593e-01	8.7059e-01
86	PAN105136	10.1567	10.5382	10.3467	8.6880e-02	8.7038e-01
87	PAN110136	8.1716	8.5531	8.3569	9.0808e-02	8.7025e-01
88	PAN115136	6.1264	6.5079	6.3288	1.0159e-01	8.7014e-01
89	PAN120136	4.0135	4.3187	4.1942	7.0844e-02	8.7006e-01
90	PAN125136	4.8117	5.1932	4.9939	7.9128e-02	8.7009e-01
91	PAN130136	4.1353	4.4405	4.2816	7.7613e-02	8.7007e-01
92	PAN120048	10.0357	10.6461	10.3751	1.2069e-01	8.7039e-01
93	PAN130048	9.3315	9.8655	9.6880	1.1798e-01	8.7034e-01
94	PAN120224	11.4457	12.0561	11.7011	1.3265e-01	8.7049e-01
95	PAN130224	9.2801	9.8142	9.5153	1.2732e-01	8.7033e-01
96	PAN120312	11.7759	12.3099	12.0608	1.3376e-01	8.7052e-01
97	PAN130312	8.4835	8.9412	8.7450	1.1654e-01	8.7027e-01
98	PAB000136	59.9074	60.3194	60.0821	8.9466e-02	5.9913e-01
99	PAB100136	55.0992	55.2823	55.1832	4.8864e-02	5.9618e-01
100	PAB125136	53.9671	54.1044	54.0241	4.6280e-02	5.9552e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.5168	60.2493	59.8407	1.6817e-01	7.6477e-01
102	PRV000001	19.8557	19.8557	19.8557	5.7813e-06	7.5164e-01
103	PSR000001	52.7372	52.9813	52.8667	3.8668e-02	7.6156e-01
104	PFM000001	43.9206	45.0193	44.6045	2.3940e-01	5.1228e-01
105	PAN000136	166.4770	174.2589	170.0363	1.7362e+00	4.9383e+00
106	PFM000002	27.5773	27.5773	27.5773	9.6356e-06	2.1155e-01
107	EMPTY	0.0049	0.0098	0.0052	1.1827e-03	0.0000e+00
108	EMPTY	-10.0000	-4.2188	-9.0284	1.5412e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0047	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	100.9615	101.7428	101.3362	1.4284e-01	1.0128e+00
113	VPW000002	118.9829	119.3735	119.1065	1.1755e-01	1.0802e+00
114	VPW000003	146.9126	147.3032	147.0601	1.2938e-01	1.1978e+00
115	VPW000004	104.5786	105.1645	104.9573	1.4599e-01	1.0260e+00
116	VPW000005	139.0925	140.0691	139.4992	1.8199e-01	1.1648e+00
117	VPW000006	145.6956	146.2816	145.8910	1.3811e-01	1.1926e+00
118	IPW000001	564.7528	572.5622	567.7809	2.2210e+00	9.2590e+00
119	IPW000002	1284.3107	1290.1644	1287.2577	1.8305e+00	1.3001e+01
120	IPW000003	1307.4747	1317.2247	1312.4495	2.3231e+00	1.3157e+01
121	IPW000004	384.9816	387.9113	386.4365	7.3574e-01	3.6496e+00
122	IPW000005	254.7822	256.7351	255.4100	4.5670e-01	2.8410e+00
123	IPW000006	266.2166	267.6815	267.0139	4.0723e-01	2.9068e+00
124	EMPTY	-0.0293	-0.0146	-0.0216	3.4527e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0148	2.6293e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0191	3.4291e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0177	3.9485e-03	0.0000e+00
128	IHT000001	131.2725	133.6163	132.3128	5.7414e-01	4.3082e+00
129	IHT000002	130.6453	132.9890	131.7216	5.7791e-01	4.3064e+00
130	IHT000003	129.7363	131.8848	130.6770	5.2237e-01	4.3032e+00
131	IHT000004	131.8848	134.2285	132.8852	5.0999e-01	4.3100e+00
132	IHT000005	130.2321	132.5759	131.0930	4.8324e-01	4.3045e+00
133	IHT000006	125.7775	128.1213	126.7780	5.0999e-01	4.2915e+00
134	IHT000007	132.3693	134.3224	133.1505	4.8007e-01	4.3108e+00
135	IHT000008	131.0396	132.9928	131.9763	4.8662e-01	4.3072e+00
136	IHT000009	130.6829	132.6360	131.5238	5.4403e-01	4.3058e+00
137	IHT000010	131.0998	133.0529	132.0603	4.7481e-01	4.3074e+00
138	IHT000011	132.0012	134.3450	133.1013	4.9103e-01	4.3106e+00
139	IHT000012	130.9984	132.9515	132.1543	4.6976e-01	4.3077e+00
140	IHT000013	92.3978	94.1556	93.4143	4.4391e-01	4.2051e+00
141	IHT000014	128.0574	130.2058	129.2373	4.3666e-01	4.2989e+00
142	IHT000015	94.9294	97.0778	95.9976	4.5823e-01	4.2109e+00
143	IHT000016	88.8033	90.9518	89.7320	4.6584e-01	4.1970e+00
144	IHT000017	105.0518	108.7628	106.5146	9.0749e-01	4.2361e+00
145	IHT000018	107.5947	110.1337	108.5354	5.4178e-01	4.2412e+00
146	IHT000019	108.0116	110.5506	108.9363	5.5210e-01	4.2423e+00
147	IHT000020	106.3627	108.9017	107.2197	5.8704e-01	4.2379e+00
148	IHT000021	-2.7907	0.1390	-1.5391	7.2195e-01	4.1000e+00
149	IHT000022	92.2363	94.5801	93.2767	5.9320e-01	4.2048e+00
150	IHT000023	105.7429	107.8914	106.5840	5.5416e-01	4.2363e+00
151	IHT000024	70.6918	72.8403	71.6047	5.4283e-01	4.1621e+00
152	IHT000025	103.2489	105.5927	104.0621	5.4423e-01	4.2300e+00
153	IHT000026	105.4763	108.0153	106.5525	5.5833e-01	4.2362e+00
154	IHT000027	89.6672	92.4016	90.7554	5.8185e-01	4.1992e+00
155	IHT000028	90.7940	93.3331	91.7387	5.2943e-01	4.2014e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.3927	109.3224	107.5327	5.7270e-01	4.2387e+00
157	IHT000030	108.7027	111.2417	109.8945	5.2626e-01	4.2447e+00
158	IHT000031	106.7834	109.1271	107.8715	5.2438e-01	4.2395e+00
159	IHT000032	107.8238	110.1675	108.8760	5.3610e-01	4.2421e+00
160	IHT000033	107.8050	109.9534	108.8214	5.1518e-01	4.2420e+00
161	IHT000034	94.5200	96.4731	95.3690	4.1153e-01	4.2095e+00
162	IHT000035	124.3540	126.8930	125.3903	4.4432e-01	4.2875e+00
163	IHT000036	93.2016	95.3501	94.0945	4.1623e-01	4.2066e+00

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Velocity 1 = 0.057301 (ft/sec)

Velocity 2 = 0.000400 (ft/sec)

Pressure Drop = 0.044100 (psi)

Tsat in = 0.058899 (deg F) Tsat out = 0.044098 (deg F)

Phi inner = 0.188301 (kBtu/hr-ft2) Phi outer = 0.292503 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1038	0.1334
1	TRF000002	0.0363	0.0465
2	TFM000001	0.3441	0.4034
3	TIN000001	0.2533	0.2970
4	TRV000001	0.3343	0.3907
5	TSR000001	1.3674	1.1854
6	EMPTY	0.0927	0.2414
7	TAO050136	0.2843	0.2310
8	TAO070136	0.2771	0.2211
9	TAO080136	0.3226	0.2543
10	TAO090136	2.1420	1.3799
11	TAO100136	0.2962	0.2271
12	TAO105136	0.3596	0.2737
13	EMPTY	0.0000	0.0000
14	TAO115136	0.2927	0.2125
15	EMPTY	0.0250	0.0669
16	TAO125136	0.3390	0.2427
17	EMPTY	0.0393	0.0869
18	EMPTY	0.0224	0.0538
19	TAO130048	0.3722	0.2842
20	TAO120224	0.3068	0.2294
21	EMPTY	0.0017	0.0043
22	TAO120312	0.3395	0.2479
23	TAO130312	0.3262	0.2465
24	EMPTY	0.0299	0.0761
25	TRT070000	0.4889	0.3922
26	TRT100000	0.3997	0.2994
27	TRT120000	0.3661	0.2734
28	TRT125000	0.4311	0.3175
29	EMPTY	0.0146	0.0366
30	EMPTY	0.0433	0.1092
31	TAF050136	0.3311	0.3393
32	TAF070136	0.3504	0.3448
33	TAF080136	0.3417	0.3320
34	TAF090136	0.3827	0.3652
35	TAF100136	0.3457	0.3219
36	TAF105136	0.3338	0.3056
37	TAF110136	0.3363	0.3033
38	TAF115136	0.3657	0.3251
39	TAF120136	0.3702	0.3255
40	TAF125136	0.3516	0.3058
41	TAF130136	0.4032	0.3479
42	TAF120048	0.3988	0.3518
43	TAF130048	0.4764	0.4152
44	TAF120224	0.4374	0.3864
45	TAF130224	0.4249	0.3698

#	Name	Abs Diff	%Diff
46	EMPTY	0.0732	0.1931
47	EMPTY	0.0465	0.1188
48	TAI130048	0.4422	0.3193
49	TAI130136	0.4400	0.3183
50	TAI130224	0.4153	0.2998
51	TAI130312	0.4800	0.3493
52	TRR130000	2.3960	2.1238
53	TSI000001	0.2715	0.6482
54	TSI000002	1.0345	1.1048
55	TSO000001	0.2913	0.7102
56	TSO000002	0.3102	0.6479
57	TAF020136	0.4133	0.4593
58	EMPTY	0.0706	0.1639
59	TAF130312	0.4845	0.4169
60	EMPTY	0.0099	0.9032
61	EMPTY	0.0099	0.8953
62	EMPTY	0.0106	0.9511
63	EMPTY	0.0093	0.8244
64	EMPTY	0.0018	0.2888
65	EMPTY	0.0000	0.0000
66	EMPTY	0.0002	0.0303
67	EMPTY	0.0021	0.3096
68	EMPTY	0.0027	0.3905
69	EMPTY	0.0029	0.4095
70	EMPTY	0.0042	0.5803
71	EMPTY	0.0049	0.6559
72	EMPTY	0.0049	0.6441
73	EMPTY	0.0077	0.9878
74	EMPTY	0.0095	1.1939
75	EMPTY	0.0064	0.7894
76	EMPTY	0.0091	1.1028
77	EMPTY	0.0096	1.1366
78	EMPTY	0.0087	1.0038
79	EMPTY	0.0099	1.1139
80	PAN020136	0.1602	0.7512
81	PAN050136	0.2641	0.6696
82	PAN070136	0.2034	0.6403
83	PAN080136	0.1066	0.8084
84	PAN090136	0.0935	0.7710
85	PAN100136	0.1215	0.9398
86	PAN105136	0.0527	0.5068
87	PAN110136	0.0421	0.5012
88	PAN115136	0.0478	0.7496
89	PAN120136	0.0360	0.8510
90	PAN125136	0.0391	0.7769
91	PAN130136	0.0368	0.8522
92	PAN120048	0.0955	0.9121
93	PAN130048	0.0814	0.8332
94	PAN120224	0.1322	1.1172
95	PAN130224	0.1127	1.1705
96	PAN120312	0.0553	0.4564
97	PAN130312	0.0833	0.9436
98	PAB000136	0.0532	0.0885
99	PAB100136	0.0396	0.0717
100	PAB125136	0.0373	0.0690

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0741	0.1237
102	PRV000001	0.1050	0.5260
103	PSR000001	0.0291	0.0550
104	PFM000001	0.3067	0.6829
105	PAN000136	1.2197	0.7122
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0014	21.2121
108	EMPTY	0.6803	7.0071
109	EMPTY	0.0003	6.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.1253	0.1235
113	VPW000002	0.0650	0.0546
114	VPW000003	0.0499	0.0340
115	VPW000004	0.0744	0.0708
116	VPW000005	0.1214	0.0871
117	VPW000006	0.1328	0.0911
118	IPW000001	4.9414	0.8779
119	IPW000002	14.7704	1.1344
120	IPW000003	4.1906	0.3183
121	IPW000004	3.4862	0.9104
122	IPW000005	0.3056	0.1198
123	IPW000006	0.5238	0.1965
124	EMPTY	0.0004	1.8182
125	EMPTY	0.0004	2.7778
126	EMPTY	0.0014	7.9096
127	EMPTY	0.0007	4.1176
128	IHT000001	0.1159	0.0875
129	IHT000002	0.1464	0.1110
130	IHT000003	0.1960	0.1498
131	IHT000004	0.2066	0.1552
132	IHT000005	0.1899	0.1446
133	IHT000006	0.2104	0.1657
134	IHT000007	0.3399	0.2546
135	IHT000008	0.2274	0.1720
136	IHT000009	0.2058	0.1562
137	IHT000010	0.1832	0.1389
138	IHT000011	0.2408	0.1812
139	IHT000012	0.2770	0.2100
140	IHT000013	0.0633	0.0678
141	IHT000014	0.2541	0.1970
142	IHT000015	0.0643	0.0670
143	IHT000016	0.0732	0.0816
144	IHT000017	0.6659	0.6291
145	IHT000018	0.3431	0.3171
146	IHT000019	0.2685	0.2471
147	IHT000020	0.2280	0.2131
148	IHT000021	0.1696	9.9257
149	IHT000022	0.0560	0.0601
150	IHT000023	0.2277	0.2141
151	IHT000024	0.2370	0.3321
152	IHT000025	0.2623	0.2527
153	IHT000026	0.2442	0.2297
154	IHT000027	0.0608	0.0670
155	IHT000028	0.1791	0.1956

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#	Name	Abs Diff	%Diff
156	IHT000029	0.4759	0.4445
157	IHT000030	0.3715	0.3392
158	IHT000031	0.3811	0.3545
159	IHT000032	0.3687	0.3398
160	IHT000033	0.3562	0.3284
161	IHT000034	0.1615	0.1696
162	IHT000035	0.3136	0.2507
163	IHT000036	0.2210	0.2354

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sum1

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Velocity 1 = 26.0481 (ft/sec) (+/- 3.4790 %)
Velocity 2 = 13.3241 (ft/sec) (+/- 3.4863 %)
Pressure drop = 21.1628 (psi)
Tsat in = 267.7616 (deg F) Tsat out = 226.8881 (deg F)
Phi inner = 100.4399 (kBtu/hr-ft2) (+/- 1.5701 %)
Phi outer = 100.2244 (kBtu/hr-ft2) (+/- 1.5529 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.1137	73.7524	73.4501	1.6708e-01	1.9000e+00
1	TRF000002	73.6639	74.0875	73.9054	1.0488e-01	1.9000e+00
2	TFM000001	84.4277	85.1632	84.8183	1.9783e-01	1.9001e+00
3	TIN000001	84.6257	85.3625	84.9962	1.6909e-01	1.9002e+00
4	TRV000001	84.7525	85.4878	85.0763	1.9747e-01	1.9002e+00
5	TSR000001	104.8399	105.5627	105.1826	1.8475e-01	1.9008e+00
6	EMPTY	37.9974	38.9168	38.4296	2.1600e-01	1.9010e+00
7	TAO050136	114.6715	115.2868	115.0402	1.4922e-01	1.9014e+00
8	TAO070136	113.6026	114.5307	114.0888	2.2056e-01	1.9013e+00
9	TAO080136	114.9449	115.6613	115.2598	1.7284e-01	1.9014e+00
10	TAO090136	136.4211	137.5303	137.0103	1.9475e-01	1.9030e+00
11	TAO100136	115.9087	116.6269	116.2207	1.5217e-01	1.9014e+00
12	TAO105136	116.5175	117.4402	117.0259	2.6834e-01	1.9015e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	121.9566	122.7755	122.3827	1.9989e-01	1.9018e+00
15	EMPTY	37.3074	37.5374	37.3350	7.5526e-02	1.9009e+00
16	TAO125136	123.1140	123.8275	123.4038	1.3239e-01	1.9019e+00
17	EMPTY	44.8706	45.7833	45.2221	2.0724e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5548	1.2461e-01	1.9012e+00
19	TAO130048	116.2165	116.7297	116.4916	1.4246e-01	1.9015e+00
20	TAO120224	118.2430	119.1646	118.7553	2.0165e-01	1.9016e+00
21	EMPTY	39.1464	39.6057	39.1970	1.0670e-01	1.9010e+00
22	TAO120312	120.8308	121.8534	121.2684	2.1680e-01	1.9018e+00
23	TAO130312	117.2048	117.9220	117.6228	1.6133e-01	1.9015e+00
24	EMPTY	38.9168	39.6057	39.2199	1.7630e-01	1.9010e+00
25	TRT070000	111.6177	112.5505	112.0910	1.9975e-01	1.9012e+00
26	TRT100000	118.7195	119.7423	119.2678	2.3254e-01	1.9016e+00
27	TRT120000	118.0436	118.9653	118.5311	1.8567e-01	1.9016e+00
28	TRT125000	120.4472	121.1603	120.7372	1.5719e-01	1.9017e+00
29	EMPTY	39.6057	40.0646	39.7985	1.4185e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.5965	2.2223e-01	1.9011e+00
31	TAF050136	92.8191	93.5499	93.1784	1.6475e-01	1.9004e+00
32	TAF070136	95.4734	96.3038	95.9877	2.0324e-01	1.9005e+00
33	TAF080136	96.4020	97.1299	96.7227	1.8954e-01	1.9005e+00
34	TAF090136	97.4328	98.2645	97.9069	2.3589e-01	1.9005e+00
35	TAF100136	99.2347	99.9631	99.5428	1.6279e-01	1.9006e+00
36	TAF105136	100.2483	101.0756	100.7769	2.1105e-01	1.9006e+00
37	TAF110136	101.4822	102.4140	101.9339	1.5896e-01	1.9007e+00
38	TAF115136	102.4620	103.4973	103.0583	2.1070e-01	1.9007e+00
39	TAF120136	103.3834	104.1077	103.7189	1.5144e-01	1.9008e+00
40	TAF125136	104.1733	105.3075	104.6195	2.6665e-01	1.9008e+00
41	TAF130136	104.7842	105.5083	105.1855	1.4558e-01	1.9008e+00
42	TAF120048	103.2175	104.0504	103.6747	2.3901e-01	1.9008e+00
43	TAF130048	103.9614	104.5826	104.3219	1.3270e-01	1.9008e+00
44	TAF120224	102.8570	103.6853	103.4080	1.8405e-01	1.9008e+00
45	TAF130224	104.0247	104.6476	104.3815	1.3783e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.8962	2.5934e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1143	1.3928e-01	1.9010e+00
48	TAI130048	122.6687	123.2810	122.9913	1.3579e-01	1.9019e+00
49	TAI130136	122.1664	122.7782	122.5216	1.4008e-01	1.9019e+00
50	TAI130224	105.3832	108.9035	107.2851	7.5371e-01	1.9009e+00
51	TAI130312	119.8648	121.9113	121.0030	4.0217e-01	1.9018e+00
52	TRR130000	101.7904	104.6796	102.9422	6.9593e-01	1.9007e+00
53	TSI000001	40.7033	41.3571	40.9915	1.5044e-01	1.9006e+00
54	TSI000002	88.0079	89.8901	88.7911	4.2981e-01	1.9002e+00
55	TSO000001	40.0993	40.7561	40.3973	1.7426e-01	1.9006e+00
56	TSO000002	45.4415	46.2021	45.7675	1.9630e-01	1.9004e+00
57	TAF020136	87.4997	88.3429	88.0311	1.8678e-01	1.9002e+00
58	EMPTY	42.8139	43.5000	43.1386	2.5762e-01	1.9013e+00
59	TAF130312	104.6360	105.4630	105.1449	1.7203e-01	1.9008e+00
60	EMPTY	0.9277	0.9375	0.9334	2.0598e-03	0.0000e+00
61	EMPTY	0.9424	0.9473	0.9435	2.0432e-03	0.0000e+00
62	EMPTY	0.9521	0.9570	0.9536	2.2603e-03	0.0000e+00
63	EMPTY	0.9668	0.9717	0.9679	2.0432e-03	0.0000e+00
64	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
65	EMPTY	0.5615	0.5664	0.5616	6.9053e-04	0.0000e+00
66	EMPTY	0.5762	0.5811	0.5763	6.9053e-04	0.0000e+00
67	EMPTY	0.5908	0.5957	0.5917	1.8950e-03	0.0000e+00
68	EMPTY	0.6055	0.6104	0.6056	6.9053e-04	0.0000e+00
69	EMPTY	0.6201	0.6250	0.6211	1.9730e-03	0.0000e+00
70	EMPTY	0.6299	0.6396	0.6387	2.2058e-03	0.0000e+00
71	EMPTY	0.6592	0.6641	0.6595	1.1714e-03	0.0000e+00
72	EMPTY	0.6689	0.6738	0.6737	6.9053e-04	0.0000e+00
73	EMPTY	0.6836	0.6934	0.6903	2.5894e-03	0.0000e+00
74	EMPTY	0.7031	0.7080	0.7041	1.9730e-03	0.0000e+00
75	EMPTY	0.7178	0.7227	0.7211	2.3008e-03	0.0000e+00
76	EMPTY	0.7324	0.7373	0.7341	2.3365e-03	0.0000e+00
77	EMPTY	0.7520	0.7568	0.7523	1.3381e-03	0.0000e+00
78	EMPTY	0.7715	0.7764	0.7753	2.0432e-03	0.0000e+00
79	EMPTY	0.7910	0.7959	0.7958	6.9053e-04	0.0000e+00
80	PAN020136	69.6272	73.8997	71.3942	1.0240e+00	8.8812e-01
81	PAN050136	135.7084	137.3869	136.4500	4.4461e-01	1.7143e+00
82	PAN070136	101.3054	101.3054	101.3055	3.8534e-05	9.0611e-01
83	PAN080136	45.3128	46.4572	45.7782	2.5619e-01	8.7750e-01
84	PAN090136	43.8208	44.6600	44.2984	1.7629e-01	8.7702e-01
85	PAN100136	45.3188	46.2343	45.7872	2.4323e-01	8.7750e-01
86	PAN105136	31.4603	32.1469	31.7777	1.4073e-01	8.7362e-01
87	PAN110136	26.2415	26.6993	26.4353	1.0922e-01	8.7251e-01
88	PAN115136	22.1847	22.7187	22.3922	1.1012e-01	8.7180e-01
89	PAN120136	17.4853	18.0194	17.6944	1.2693e-01	8.7112e-01
90	PAN125136	18.3201	18.7016	18.5154	9.5216e-02	8.7123e-01
91	PAN130136	16.6212	17.0027	16.7814	7.8972e-02	8.7101e-01
92	PAN120048	41.6141	42.8348	42.2305	2.4606e-01	8.7638e-01
93	PAN130048	36.4569	36.9910	36.6598	1.3666e-01	8.7481e-01
94	PAN120224	41.4088	42.0954	41.7063	1.4964e-01	8.7623e-01
95	PAN130224	36.5215	37.2082	36.8084	1.5533e-01	8.7485e-01
96	PAN120312	42.3668	42.9009	42.6094	1.3586e-01	8.7650e-01
97	PAN130312	33.9319	34.5423	34.1318	1.3777e-01	8.7417e-01
98	PAB000136	40.0072	40.4650	40.2645	1.1360e-01	5.8867e-01
99	PAB100136	23.8402	24.0691	23.9180	5.7940e-02	5.8307e-01
100	PAB125136	19.6191	19.7565	19.6915	4.1452e-02	5.8209e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.7346	40.5891	40.1155	2.1163e-01	7.5668e-01
102	PRV0000001	15.4098	15.5319	15.4611	6.0861e-02	7.5100e-01
103	PSR0000001	16.4169	16.6611	16.5512	4.4460e-02	7.5114e-01
104	PFM0000001	105.2750	107.0145	106.1008	4.3041e-01	5.6600e-01
105	PAN000136	582.7075	590.9472	585.9025	1.9953e+00	5.1334e+00
106	PFM0000002	27.5718	27.5718	27.5718	7.7069e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0089	1.8950e-03	0.0000e+00
108	EMPTY	-8.5449	-6.6406	-7.4103	4.8814e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0009	1.8950e-03	0.0000e+00
112	VPW0000001	101.3372	102.7043	101.9777	3.7024e-01	1.0151e+00
113	VPW0000002	118.3481	119.3247	118.8364	2.2058e-01	1.0791e+00
114	VPW0000003	146.2440	147.4159	146.7948	2.1860e-01	1.1966e+00
115	VPW0000004	104.2443	105.2208	104.7951	2.3901e-01	1.0254e+00
116	VPW0000005	138.5517	139.5282	139.0830	2.3022e-01	1.1630e+00
117	VPW0000006	145.1510	146.1275	145.6197	2.2321e-01	1.1914e+00
118	IPW0000001	539.8232	561.2990	550.8733	5.9898e+00	9.1951e+00
119	IPW0000002	1289.3387	1306.9001	1299.6415	3.7614e+00	1.3078e+01
120	IPW0000003	1321.8375	1335.4875	1328.8575	3.3660e+00	1.3260e+01
121	IPW0000004	375.2817	379.1880	376.8831	8.6585e-01	3.5867e+00
122	IPW0000005	253.9841	256.9135	255.4099	5.3882e-01	2.8410e+00
123	IPW0000006	266.7236	270.1416	268.4033	6.1732e-01	2.9148e+00
124	EMPTY	-0.0293	-0.0146	-0.0219	3.8511e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0150	3.5348e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0191	3.5348e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	3.1335e-03	0.0000e+00
128	IHT0000001	131.2312	133.7703	132.5516	5.8999e-01	4.3089e+00
129	IHT0000002	130.6265	132.9702	131.8960	5.5278e-01	4.3069e+00
130	IHT0000003	128.9175	131.4566	130.3394	5.1454e-01	4.3022e+00
131	IHT0000004	131.4941	133.8379	132.8887	4.9914e-01	4.3100e+00
132	IHT0000005	129.8340	131.9824	131.1348	5.1691e-01	4.3046e+00
133	IHT0000006	125.7812	127.9297	126.8359	4.9442e-01	4.2917e+00
134	IHT0000007	131.9524	134.2961	133.0929	4.8866e-01	4.3106e+00
135	IHT0000008	130.4199	132.9590	131.8379	5.3932e-01	4.3068e+00
136	IHT0000009	130.0706	132.8050	131.5902	5.7085e-01	4.3060e+00
137	IHT0000010	130.3110	132.6547	131.5884	5.6801e-01	4.3060e+00
138	IHT0000011	131.8021	134.1459	132.8413	5.6695e-01	4.3098e+00
139	IHT0000012	130.9683	133.5074	131.9683	5.6032e-01	4.3072e+00
140	IHT0000013	92.1838	94.5275	93.1252	5.1854e-01	4.2044e+00
141	IHT0000014	127.6630	130.0068	128.7373	5.4995e-01	4.2974e+00
142	IHT0000015	94.9143	97.0628	95.9378	5.3606e-01	4.2107e+00
143	IHT0000016	89.2578	91.9922	90.1758	5.3996e-01	4.1980e+00
144	IHT0000017	104.0753	108.3722	106.2237	9.7776e-01	4.2354e+00
145	IHT0000018	107.1740	109.7131	108.1271	5.6447e-01	4.2402e+00
146	IHT0000019	107.4407	109.3938	108.3508	4.4048e-01	4.2408e+00
147	IHT0000020	106.1899	108.7289	107.2798	4.8823e-01	4.2380e+00
148	IHT0000021	-2.6255	0.1089	-1.6411	5.4385e-01	4.1000e+00
149	IHT0000022	92.7509	95.4853	94.1025	5.5781e-01	4.2066e+00
150	IHT0000023	105.6040	107.9477	106.4946	4.8834e-01	4.2360e+00
151	IHT0000024	70.7482	73.2873	71.7014	4.7946e-01	4.1622e+00
152	IHT0000025	102.4114	105.1457	103.4348	5.0155e-01	4.2285e+00
153	IHT0000026	104.6988	107.6285	106.0972	4.9183e-01	4.2351e+00
154	IHT0000027	89.4193	92.7396	91.2162	5.8925e-01	4.2002e+00
155	IHT0000028	91.1997	93.7387	92.1489	5.8128e-01	4.2023e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.2237	108.5675	107.1338	5.6855e-01	4.2377e+00
157	IHT000030	108.7177	111.6474	109.8193	6.1226e-01	4.2445e+00
158	IHT000031	106.6031	109.7281	107.8257	6.0850e-01	4.2394e+00
159	IHT000032	107.4294	110.3591	108.7106	6.1657e-01	4.2417e+00
160	IHT000033	107.4219	110.3516	108.6484	6.3508e-01	4.2415e+00
161	IHT000034	94.1106	96.8450	95.2590	4.8751e-01	4.2092e+00
162	IHT000035	123.9258	127.0508	125.2227	5.2014e-01	4.2870e+00
163	IHT000036	92.5894	95.5191	93.8550	5.3560e-01	4.2061e+00

Test: Feb06_01

sum2

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Velocity 1 = 25.9899 (ft/sec) (+/- 3.4791 %)
Velocity 2 = 13.3244 (ft/sec) (+/- 3.4863 %)
Pressure drop = 21.1345 (psi)
Tsat in = 267.6849 (deg F) Tsat out = 226.9223 (deg F)
Phi inner = 99.4018 (kBtu/hr-ft2) (+/- 1.5727 %)
Phi outer = 100.2991 (kBtu/hr-ft2) (+/- 1.5519 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.1137	73.7524	73.5178	1.8046e-01	1.9000e+00
1	TRF000002	73.6639	74.0875	73.9319	1.0387e-01	1.9000e+00
2	TFM000001	84.6375	85.4777	85.0683	1.7572e-01	1.9002e+00
3	TIN000001	84.8362	85.5728	85.2293	1.3550e-01	1.9002e+00
4	TRV000001	84.6485	85.6973	85.2071	2.7759e-01	1.9002e+00
5	TSR000001	104.5310	105.7681	105.0931	3.9250e-01	1.9008e+00
6	EMPTY	37.9974	38.9168	38.4150	2.1331e-01	1.9010e+00
7	TAO050136	114.8754	115.3886	115.1773	1.4097e-01	1.9014e+00
8	TAO070136	113.8082	114.7362	114.2187	1.8766e-01	1.9013e+00
9	TAO080136	115.0479	115.6613	115.3602	1.4384e-01	1.9014e+00
10	TAO090136	137.9326	138.6381	138.2720	1.8361e-01	1.9031e+00
11	TAO100136	116.1139	116.8317	116.3714	1.7151e-01	1.9014e+00
12	TAO105136	116.7219	117.6448	117.2350	2.4121e-01	1.9015e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	122.1614	122.9804	122.5753	2.0370e-01	1.9019e+00
15	EMPTY	37.3074	37.5374	37.3308	7.0367e-02	1.9009e+00
16	TAO125136	123.3176	123.8275	123.5613	1.5246e-01	1.9019e+00
17	EMPTY	44.8706	45.5552	45.1966	1.9205e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5665	1.1512e-01	1.9012e+00
19	TAO130048	116.3188	116.9338	116.6370	1.4364e-01	1.9015e+00
20	TAO120224	118.5504	119.1651	118.9370	1.7013e-01	1.9016e+00
21	EMPTY	38.9168	39.3761	39.1839	1.0839e-01	1.9010e+00
22	TAO120312	120.7281	121.8536	121.3942	2.5156e-01	1.9018e+00
23	TAO130312	117.6137	118.0240	117.8212	1.4399e-01	1.9015e+00
24	EMPTY	38.9168	39.6057	39.2355	1.6113e-01	1.9010e+00
25	TRT070000	111.8260	113.2757	112.4113	2.8395e-01	1.9012e+00
26	TRT100000	118.9243	119.8444	119.4146	1.6948e-01	1.9016e+00
27	TRT120000	118.3505	118.9653	118.6727	1.2717e-01	1.9016e+00
28	TRT125000	120.5498	121.2628	120.8595	1.8697e-01	1.9017e+00
29	EMPTY	39.6057	40.0646	39.7977	1.1802e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6619	1.8465e-01	1.9011e+00
31	TAF050136	93.0282	93.7579	93.4598	1.5493e-01	1.9004e+00
32	TAF070136	95.7831	96.6133	96.1612	1.9358e-01	1.9005e+00
33	TAF080136	96.5083	97.2325	96.8920	1.4217e-01	1.9005e+00
34	TAF090136	97.6401	98.5766	98.1075	2.7097e-01	1.9005e+00
35	TAF100136	99.4428	100.1711	99.7381	1.6222e-01	1.9006e+00
36	TAF105136	100.4540	101.3826	100.9644	2.3369e-01	1.9006e+00
37	TAF110136	101.7921	102.4140	102.1181	1.5092e-01	1.9007e+00
38	TAF115136	102.8761	103.6006	103.2541	2.0750e-01	1.9007e+00
39	TAF120136	103.6927	104.3135	103.9257	1.2241e-01	1.9008e+00
40	TAF125136	104.1749	105.3075	104.7988	2.7332e-01	1.9008e+00
41	TAF130136	105.0938	105.7145	105.3813	1.4960e-01	1.9008e+00
42	TAF120048	103.1123	104.2581	103.8987	2.3481e-01	1.9008e+00
43	TAF130048	104.1686	104.7899	104.5214	1.3848e-01	1.9008e+00
44	TAF120224	103.1673	103.9959	103.6409	1.9935e-01	1.9008e+00
45	TAF130224	104.1281	104.8556	104.5818	1.3688e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.3074	38.4572	37.9458	2.1131e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1371	6.5621e-02	1.9010e+00
48	TAI130048	122.7705	123.5872	123.1624	1.6716e-01	1.9019e+00
49	TAI130136	122.3706	122.9815	122.6763	1.3001e-01	1.9019e+00
50	TAI130224	104.6573	106.8336	105.6624	5.7443e-01	1.9009e+00
51	TAI130312	107.2091	108.5527	107.9074	3.3059e-01	1.9010e+00
52	TRR130000	101.9955	104.6805	103.2483	6.3719e-01	1.9007e+00
53	TSI000001	40.9215	41.5750	41.2660	1.7253e-01	1.9006e+00
54	TSI000002	87.3807	89.1600	88.3783	4.2610e-01	1.9002e+00
55	TSO000001	40.2087	41.0846	40.6381	2.1302e-01	1.9006e+00
56	TSO000002	45.6583	46.3108	46.0069	1.9071e-01	1.9004e+00
57	TAF020136	87.8161	88.6596	88.2485	1.7112e-01	1.9002e+00
58	EMPTY	42.8139	43.5000	43.1359	2.6783e-01	1.9013e+00
59	TAF130312	105.0496	105.7731	105.4061	1.4635e-01	1.9008e+00
60	EMPTY	0.9326	0.9375	0.9369	1.6172e-03	0.0000e+00
61	EMPTY	0.9424	0.9521	0.9485	2.3440e-03	0.0000e+00
62	EMPTY	0.9521	0.9619	0.9591	2.6370e-03	0.0000e+00
63	EMPTY	0.9717	0.9766	0.9727	1.9883e-03	0.0000e+00
64	EMPTY	0.5420	0.5469	0.5443	2.4621e-03	0.0000e+00
65	EMPTY	0.5615	0.5664	0.5617	9.7615e-04	0.0000e+00
66	EMPTY	0.5762	0.5811	0.5784	2.4538e-03	0.0000e+00
67	EMPTY	0.5908	0.5957	0.5953	1.3508e-03	0.0000e+00
68	EMPTY	0.6055	0.6104	0.6071	2.3135e-03	0.0000e+00
69	EMPTY	0.6201	0.6250	0.6248	9.7615e-04	0.0000e+00
70	EMPTY	0.6396	0.6396	0.6396	0.0000e+00	0.0000e+00
71	EMPTY	0.6592	0.6641	0.6633	1.8234e-03	0.0000e+00
72	EMPTY	0.6738	0.6787	0.6745	1.7263e-03	0.0000e+00
73	EMPTY	0.6934	0.6982	0.6935	6.9754e-04	0.0000e+00
74	EMPTY	0.7080	0.7080	0.7080	0.0000e+00	0.0000e+00
75	EMPTY	0.7227	0.7275	0.7229	9.7615e-04	0.0000e+00
76	EMPTY	0.7373	0.7373	0.7373	0.0000e+00	0.0000e+00
77	EMPTY	0.7568	0.7568	0.7568	0.0000e+00	0.0000e+00
78	EMPTY	0.7764	0.7813	0.7770	1.6172e-03	0.0000e+00
79	EMPTY	0.7959	0.8008	0.7997	2.0584e-03	0.0000e+00
80	PAN020136	69.8561	74.2812	71.4163	9.3338e-01	8.8813e-01
81	PAN050136	135.0981	137.0817	135.9264	4.5670e-01	1.7140e+00
82	PAN070136	101.3054	101.3054	101.3055	3.8542e-05	9.0611e-01
83	PAN080136	45.4654	46.6098	46.0073	2.6256e-01	8.7757e-01
84	PAN090136	43.9734	44.5837	44.2287	1.9235e-01	8.7700e-01
85	PAN100136	45.4714	46.3869	45.9478	2.0337e-01	8.7755e-01
86	PAN105136	31.2314	32.0706	31.6580	1.6839e-01	8.7359e-01
87	PAN110136	27.1570	27.6148	27.3345	1.1272e-01	8.7268e-01
88	PAN115136	22.1084	22.6424	22.3451	1.1039e-01	8.7179e-01
89	PAN120136	16.9513	17.4091	17.2020	1.0093e-01	8.7106e-01
90	PAN125136	18.3964	18.7779	18.5630	9.0371e-02	8.7124e-01
91	PAN130136	16.6212	17.0789	16.8049	9.0699e-02	8.7101e-01
92	PAN120048	41.4615	42.0718	41.6810	1.3272e-01	8.7622e-01
93	PAN130048	36.9910	37.8302	37.4145	1.5656e-01	8.7501e-01
94	PAN120224	42.1717	42.8583	42.5205	1.4692e-01	8.7647e-01
95	PAN130224	35.9112	36.5978	36.2646	1.4667e-01	8.7471e-01
96	PAN120312	42.2905	42.9772	42.7280	1.6538e-01	8.7653e-01
97	PAN130312	34.0082	34.5423	34.2418	1.4051e-01	8.7420e-01
98	PAB000136	40.0072	40.5107	40.2127	1.0781e-01	5.8865e-01
99	PAB100136	23.8402	24.0233	23.9327	4.9875e-02	5.8308e-01
100	PAB125136	19.6191	19.7565	19.7042	4.2820e-02	5.8209e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.6125	40.5891	40.0161	2.2454e-01	7.5664e-01
102	PRV0000001	15.4098	15.5319	15.4820	6.0619e-02	7.5100e-01
103	PSR0000001	16.4169	16.6611	16.5390	4.9835e-02	7.5114e-01
104	PFM0000001	104.7257	107.1976	105.6206	6.0880e-01	5.6544e-01
105	PAN000136	581.7919	589.5739	585.1177	1.9795e+00	5.1329e+00
106	PFM0000002	27.5718	27.5718	27.5718	7.7085e-06	2.1154e-01
107	EMPTY	0.0049	0.0146	0.0086	2.3440e-03	0.0000e+00
108	EMPTY	-8.0957	-6.2549	-7.0408	3.3629e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0054	1.4934e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0017	2.3483e-03	0.0000e+00
112	VPW0000001	101.3372	102.7043	101.9470	4.1553e-01	1.0150e+00
113	VPW0000002	113.5434	119.3247	118.7946	1.9531e-01	1.0790e+00
114	VPW0000003	146.0487	147.2206	146.6187	2.3866e-01	1.1958e+00
115	VPW0000004	104.4396	105.4162	104.7585	2.2088e-01	1.0253e+00
116	VPW0000005	138.5517	139.7236	139.0460	2.7362e-01	1.1628e+00
117	VPW0000006	144.9557	146.3229	145.5216	2.7977e-01	1.1910e+00
118	IPW0000001	555.4420	565.2037	560.8209	2.7475e+00	9.2325e+00
119	IPW0000002	1285.4363	1306.9001	1295.9886	6.1694e+00	1.3055e+01
120	IPW0000003	1312.0875	1321.8375	1316.7434	2.8094e+00	1.3184e+01
121	IPW0000004	373.8169	377.7231	375.7897	9.6613e-01	3.5796e+00
122	IPW0000005	253.0077	255.4488	254.2732	5.8891e-01	2.8346e+00
123	IPW0000006	264.2822	266.7236	265.7670	5.8931e-01	2.8997e+00
124	EMPTY	-0.0293	-0.0146	-0.0210	4.3678e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	3.1902e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0168	3.6021e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0172	3.0070e-03	0.0000e+00
128	IHT0000001	131.4265	133.5750	132.5228	5.0243e-01	4.3089e+00
129	IHT0000002	130.8218	132.7749	131.8980	4.7024e-01	4.3069e+00
130	IHT0000003	129.1128	131.6519	130.4800	5.3637e-01	4.3026e+00
131	IHT0000004	131.4941	134.2285	132.9650	5.5401e-01	4.3102e+00
132	IHT0000005	129.8340	132.5683	131.1812	5.3525e-01	4.3047e+00
133	IHT0000006	125.3906	128.1250	126.8415	5.4664e-01	4.2917e+00
134	IHT0000007	131.5618	134.1008	132.9249	4.8253e-01	4.3101e+00
135	IHT0000008	130.2246	132.9590	131.6516	5.1088e-01	4.3062e+00
136	IHT0000009	130.2659	132.4144	131.4020	5.1005e-01	4.3054e+00
137	IHT0000010	130.7016	133.0454	131.6384	4.9472e-01	4.3061e+00
138	IHT0000011	131.8021	134.1459	132.8665	4.9964e-01	4.3099e+00
139	IHT0000012	130.7730	133.1167	131.9528	5.7769e-01	4.3071e+00
140	IHT0000013	91.9884	94.3322	93.1763	5.6640e-01	4.2045e+00
141	IHT0000014	127.4677	129.8114	128.7871	5.5462e-01	4.2975e+00
142	IHT0000015	94.7190	96.8675	95.8869	5.2056e-01	4.2106e+00
143	IHT0000016	88.8672	91.4062	90.1188	5.7487e-01	4.1979e+00
144	IHT0000017	105.0518	108.1768	106.7538	7.3729e-01	4.2367e+00
145	IHT0000018	106.9787	109.1271	108.1904	5.6096e-01	4.2403e+00
146	IHT0000019	106.8547	109.5891	108.3973	5.3969e-01	4.2409e+00
147	IHT0000020	105.6039	108.1430	107.2183	5.1177e-01	4.2379e+00
148	IHT0000021	-3.4067	-0.2817	-1.5891	6.0094e-01	4.1000e+00
149	IHT0000022	92.3603	95.6806	94.0743	5.9437e-01	4.2065e+00
150	IHT0000023	104.8227	107.7524	106.3972	5.6860e-01	4.2358e+00
151	IHT0000024	70.1623	72.7013	71.5972	5.1142e-01	4.1620e+00
152	IHT0000025	102.0207	104.7551	103.4118	5.3434e-01	4.2284e+00
153	IHT0000026	104.6988	107.4332	106.0898	5.7998e-01	4.2350e+00
154	IHT0000027	89.8100	93.3256	91.2489	6.4740e-01	4.2003e+00
155	IHT0000028	90.8091	93.3481	92.1723	6.0132e-01	4.2023e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6378	108.3722	107.1205	6.1495e-01	4.2376e+00
157	IHT000030	108.1318	110.6708	109.7501	5.9669e-01	4.2443e+00
158	IHT000031	106.2124	109.1421	107.7311	6.0629e-01	4.2392e+00
159	IHT000032	107.0388	110.1638	108.6889	6.1642e-01	4.2416e+00
160	IHT000033	107.0313	109.9609	108.6336	6.0591e-01	4.2415e+00
161	IHT000034	94.3059	96.0637	95.3064	4.3424e-01	4.2093e+00
162	IHT000035	124.3164	126.4648	125.2930	4.6151e-01	4.2872e+00
163	IHT000036	92.9800	94.9332	93.8808	4.2346e-01	4.2061e+00

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Velocity 1 = 0.058199 (ft/sec)

Velocity 2 = 0.000300 (ft/sec)

Pressure Drop = 0.028299 (psi)

Tsat in = 0.076691 (deg F) Tsat out = 0.034195 (deg F)

Phi inner = 1.038101 (kBtu/hr-ft2) Phi outer = 0.074699 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0677	0.022
1	TRF000002	0.0265	0.0359
2	TFM000001	0.2500	0.2947
3	TIN000001	0.2331	0.2742
4	TRV000001	0.1308	0.1537
5	TSR000001	0.0895	0.0851
6	EMPTY	0.0146	0.0380
7	TAO050136	0.1371	0.1192
8	TAO070136	0.1299	0.1139
9	TAO080136	0.1004	0.0871
10	TAO090136	1.2617	0.9209
11	TAO100136	0.1507	0.1297
12	TAO105136	0.2091	0.1787
13	EMPTY	0.0000	0.0000
14	TAO115136	0.1926	0.1574
15	EMPTY	0.0042	0.0112
16	TAO125136	0.1575	0.1276
17	EMPTY	0.0255	0.0564
18	EMPTY	0.0117	0.0282
19	TAO130048	0.1454	0.1248
20	TAO120224	0.1817	0.1530
21	EMPTY	0.0131	0.0334
22	TAO120312	0.1258	0.1037
23	TAO130312	0.1984	0.1687
24	EMPTY	0.0156	0.0398
25	TRT070000	0.3203	0.2857
26	TRT100000	0.1468	0.1231
27	TRT120000	0.1416	0.1195
28	TRT125000	0.1223	0.1013
29	EMPTY	0.0008	0.0020
30	EMPTY	0.0654	0.1652
31	TAF050136	0.2814	0.3020
32	TAF070136	0.1735	0.1808
33	TAF080136	0.1693	0.1750
34	TAF090136	0.2006	0.2049
35	TAF100136	0.1953	0.1962
36	TAF105136	0.1875	0.1861
37	TAF110136	0.1842	0.1807
38	TAF115136	0.1958	0.1900
39	TAF120136	0.2068	0.1994
40	TAF125136	0.1793	0.1714
41	TAF130136	0.1958	0.1861
42	TAF120048	0.2240	0.2161
43	TAF130048	0.1995	0.1912
44	TAF120224	0.2329	0.2252
45	TAF130224	0.2003	0.1919

#	Name	Abs Diff	%Diff
46	EMPTY	0.0496	0.1309
47	EMPTY	0.0228	0.0583
48	TAI130048	0.1711	0.1391
49	TAI130136	0.1547	0.1263
50	TAI130224	1.6227	1.5125
51	TAI130312	13.0956	10.8225
52	TRR130000	0.3061	0.2974
53	TSI000001	0.2745	0.6696
54	TSI000002	0.4128	0.4649
55	TSO000001	0.2408	0.5961
56	TSO000002	0.2394	0.5231
57	TAF020136	0.2174	0.2470
58	EMPTY	0.0027	0.0063
59	TAF130312	0.2612	0.2484
60	EMPTY	0.0035	0.3750
61	EMPTY	0.0050	0.5299
62	EMPTY	0.0055	0.5768
63	EMPTY	0.0048	0.4959
64	EMPTY	0.0023	0.4244
65	EMPTY	0.0001	0.0178
66	EMPTY	0.0021	0.3644
67	EMPTY	0.0036	0.6084
68	EMPTY	0.0015	0.2477
69	EMPTY	0.0037	0.5957
70	EMPTY	0.0009	0.1409
71	EMPTY	0.0038	0.5762
72	EMPTY	0.0008	0.1187
73	EMPTY	0.0032	0.4636
74	EMPTY	0.0039	0.5539
75	EMPTY	0.0018	0.2496
76	EMPTY	0.0032	0.4359
77	EMPTY	0.0045	0.5982
78	EMPTY	0.0017	0.2193
79	EMPTY	0.0039	0.4901
80	PAN020136	0.0221	0.0309
81	PAN050136	0.5236	0.3837
82	PAN070136	0.0000	0.0000
83	PAN080136	0.2291	0.5005
84	PAN090136	0.0697	0.1573
85	PAN100136	0.1606	0.3508
86	PAN105136	0.1197	0.3767
87	PAN110136	0.8992	3.4015
88	PAN115136	0.0471	0.2103
89	PAN120136	0.4924	2.7828
90	PAN125136	0.0476	0.2571
91	PAN130136	0.0235	0.1400
92	PAN120048	0.5495	1.3012
93	PAN130048	0.7547	2.0587
94	PAN120224	0.8142	1.9522
95	PAN130224	0.5438	1.4774
96	PAN120312	0.1186	0.2783
97	PAN130312	0.1100	0.3223
98	PAB000136	0.0518	0.1286
99	PAB100136	0.0147	0.0615
100	PAB125136	0.0127	0.0645

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0994	0.2478
102	PRV000001	0.0209	0.1352
103	PSR000001	0.0122	0.0737
104	PFM000001	0.4802	0.4526
105	PAN000136	0.7849	0.1340
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0003	3.3708
108	EMPTY	0.3695	4.9863
109	EMPTY	0.0001	1.8182
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0008	88.8889
112	VPW000001	0.0307	0.0301
113	VPW000002	0.0418	0.0352
114	VPW000003	0.1761	0.1200
115	VPW000004	0.0366	0.0349
116	VPW000005	0.0370	0.0266
117	VPW000006	0.0981	0.0674
118	IPW000001	9.9476	1.8058
119	IPW000002	3.6528	0.2811
120	IPW000003	12.1141	0.9116
121	IPW000004	1.0934	0.2901
122	IPW000005	1.1367	0.4451
123	IPW000006	2.6363	0.9822
124	EMPTY	0.0009	4.1096
125	EMPTY	0.0008	5.3333
126	EMPTY	0.0023	12.0419
127	EMPTY	0.0005	2.9940
128	IHT000001	0.0288	0.0217
129	IHT000002	0.0020	0.0015
130	IHT000003	0.1406	0.1079
131	IHT000004	0.0763	0.0574
132	IHT000005	0.0464	0.0354
133	IHT000006	0.0056	0.0044
134	IHT000007	0.1680	0.1262
135	IHT000008	0.1863	0.1413
136	IHT000009	0.1882	0.1430
137	IHT000010	0.0500	0.0380
138	IHT000011	0.0252	0.0190
139	IHT000012	0.0155	0.0117
140	IHT000013	0.0511	0.0549
141	IHT000014	0.0498	0.0387
142	IHT000015	0.0509	0.0531
143	IHT000016	0.0570	0.0632
144	IHT000017	0.5301	0.4990
145	IHT000018	0.0633	0.0585
146	IHT000019	0.0465	0.0429
147	IHT000020	0.0615	0.0573
148	IHT000021	0.0520	3.1686
149	IHT000022	0.0282	0.0300
150	IHT000023	0.0974	0.0915
151	IHT000024	0.1042	0.1453
152	IHT000025	0.0230	0.0222
153	IHT000026	0.0074	0.0070
154	IHT000027	0.0327	0.0358
155	IHT000028	0.0234	0.0254

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0133	0.0124
157	IHT000030	0.0692	0.0630
158	IHT000031	0.0946	0.0877
159	IHT000032	0.0217	0.0200
160	IHT000033	0.0148	0.0136
161	IHT000034	0.0474	0.0498
162	IHT000035	0.0703	0.0561
163	IHT000036	0.0258	0.0275

Velocity 1 = 20.0315 (ft/sec) (+/- 3.4939 %)
 Velocity 2 = 13.3253 (ft/sec) (+/- 3.4863 %)
 Pressure drop = 10.3245 (psi)
 Tsat in = 267.3466 (deg F) Tsat out = 250.4015 (deg F)
 Phi inner = 99.0387 (kBtu/hr-ft2) (+/- 1.5737 %)
 Phi outer = 100.3249 (kBtu/hr-ft2) (+/- 1.5514 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.3267	73.7524	73.6290	1.6144e-01	1.9000e+00
1	TRF000002	73.8757	74.2992	74.1171	1.2105e-01	1.9000e+00
2	TFM000001	85.3717	86.2114	85.8799	1.8023e-01	1.9002e+00
3	TIN000001	85.6778	86.3085	86.0606	1.3394e-01	1.9002e+00
4	TRV000001	86.3247	87.1624	86.8021	2.1072e-01	1.9002e+00
5	TSR000001	108.9552	110.0862	109.5641	2.8899e-01	1.9011e+00
6	EMPTY	37.9974	38.6870	38.3698	2.4524e-01	1.9010e+00
7	TAO050136	122.2129	122.9258	122.6325	1.7161e-01	1.9019e+00
8	TAO070136	121.2213	121.9397	121.5907	1.7200e-01	1.9018e+00
9	TAO080136	122.4743	123.0855	122.8006	1.3168e-01	1.9019e+00
10	TAO090136	142.0539	142.9579	142.5844	1.9566e-01	1.9035e+00
11	TAO100136	124.6922	125.3034	125.0509	1.5296e-01	1.9020e+00
12	TAO105136	125.2006	126.4225	125.9054	3.2045e-01	1.9021e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	131.5559	132.2674	131.9750	1.9871e-01	1.9026e+00
15	EMPTY	37.3074	37.5374	37.3304	6.9725e-02	1.9009e+00
16	TAO125136	133.1291	133.6342	133.4481	1.2651e-01	1.9027e+00
17	EMPTY	44.8706	45.5552	45.2129	1.9147e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5227	1.1107e-01	1.9012e+00
19	TAO130048	125.1705	125.7808	125.5247	1.5126e-01	1.9021e+00
20	TAO120224	127.8315	128.3400	128.0636	1.5913e-01	1.9023e+00
21	EMPTY	38.9168	39.3761	39.1602	1.0792e-01	1.9010e+00
22	TAO120312	130.3125	131.5307	130.9624	2.4704e-01	1.9025e+00
23	TAO130312	126.3708	126.9808	126.7207	1.5795e-01	1.9022e+00
24	EMPTY	38.9168	39.3761	39.1878	1.5170e-01	1.9010e+00
25	TRT070000	118.7516	119.6783	119.2795	2.3586e-01	1.9016e+00
26	TRT100000	128.1866	128.8974	128.5281	1.6380e-01	1.9023e+00
27	TRT120000	127.9334	128.5435	128.2264	1.4322e-01	1.9023e+00
28	TRT125000	130.0601	130.8682	130.4440	1.8481e-01	1.9025e+00
29	EMPTY	39.6057	40.0646	39.8352	9.2730e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6470	2.2090e-01	1.9011e+00
31	TAF050136	96.2495	96.8734	96.5660	1.7443e-01	1.9005e+00
32	TAF070136	99.5086	100.4385	99.9545	2.3186e-01	1.9006e+00
33	TAF080136	100.7364	101.3577	101.0806	1.5272e-01	1.9007e+00
34	TAF090136	102.1018	103.1378	102.6532	2.3620e-01	1.9007e+00
35	TAF100136	104.4280	105.0496	104.7968	1.6504e-01	1.9008e+00
36	TAF105136	105.9970	106.9215	106.3716	2.3530e-01	1.9009e+00
37	TAF110136	107.4547	108.1755	107.8424	1.6060e-01	1.9010e+00
38	TAF115136	108.7528	109.5767	109.1610	1.9733e-01	1.9010e+00
39	TAF120136	109.7541	110.3714	110.1410	1.5482e-01	1.9011e+00
40	TAF125136	110.8373	111.8612	111.2436	2.4285e-01	1.9011e+00
41	TAF130136	111.7816	112.1934	112.0412	1.1808e-01	1.9012e+00
42	TAF120048	109.4593	110.3915	109.9932	2.4345e-01	1.9011e+00
43	TAF130048	110.5658	111.1838	110.9779	1.4862e-01	1.9011e+00
44	TAF120224	109.2548	110.0789	109.7165	1.6285e-01	1.9011e+00
45	TAF130224	110.6658	111.2850	111.1160	1.4410e-01	1.9011e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9468	2.1934e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1556	7.9824e-02	1.9010e+00
48	TAI130048	132.2230	133.0333	132.7134	1.5502e-01	1.9026e+00
49	TAI130136	132.0962	132.7034	132.4041	1.3248e-01	1.9026e+00
50	TAI130224	106.9371	109.1098	107.9886	5.3795e-01	1.9010e+00
51	TAI130312	113.8098	115.0435	114.5049	2.3368e-01	1.9013e+00
52	TRR130000	102.0995	104.2682	103.2981	6.0540e-01	1.9007e+00
53	TSI000001	41.2477	41.9010	41.5877	1.7126e-01	1.9005e+00
54	TSI000002	85.4954	87.1727	86.2884	3.7643e-01	1.9002e+00
55	TSO000001	40.4274	41.1934	40.8084	1.9684e-01	1.9006e+00
56	TSO000002	46.3101	47.1783	46.6533	1.8783e-01	1.9004e+00
57	TAF020136	89.5040	90.5553	90.1474	1.9550e-01	1.9003e+00
58	EMPTY	42.8139	43.5000	43.1570	2.1794e-01	1.9013e+00
59	TAF130312	111.8446	112.4617	112.2355	1.5545e-01	1.9012e+00
60	EMPTY	1.0938	1.0986	1.0963	2.4642e-03	0.0000e+00
61	EMPTY	1.1035	1.1084	1.1073	2.0432e-03	0.0000e+00
62	EMPTY	1.1133	1.1182	1.1170	2.1065e-03	0.0000e+00
63	EMPTY	1.1279	1.1328	1.1289	1.9730e-03	0.0000e+00
64	EMPTY	0.6006	0.6104	0.6055	1.3951e-03	0.0000e+00
65	EMPTY	0.6201	0.6250	0.6238	2.1065e-03	0.0000e+00
66	EMPTY	0.6348	0.6396	0.6394	1.1714e-03	0.0000e+00
67	EMPTY	0.6494	0.6592	0.6544	1.2041e-03	0.0000e+00
68	EMPTY	0.6641	0.6689	0.6678	2.1065e-03	0.0000e+00
69	EMPTY	0.6787	0.6885	0.6839	1.5314e-03	0.0000e+00
70	EMPTY	0.6982	0.6982	0.6982	0.0000e+00	0.0000e+00
71	EMPTY	0.7178	0.7227	0.7207	2.4164e-03	0.0000e+00
72	EMPTY	0.7324	0.7373	0.7325	6.9053e-04	0.0000e+00
73	EMPTY	0.7471	0.7520	0.7507	2.1635e-03	0.0000e+00
74	EMPTY	0.7617	0.7666	0.7648	2.3675e-03	0.0000e+00
75	EMPTY	0.7764	0.7813	0.7805	1.8082e-03	0.0000e+00
76	EMPTY	0.7910	0.7959	0.7940	2.3941e-03	0.0000e+00
77	EMPTY	0.8105	0.8154	0.8115	1.9730e-03	0.0000e+00
78	EMPTY	0.8301	0.8350	0.8339	2.0432e-03	0.0000e+00
79	EMPTY	0.8545	0.8545	0.8545	0.0000e+00	0.0000e+00
80	PAN020136	32.7010	34.5320	33.3327	4.3761e-01	8.7398e-01
81	PAN050136	67.0439	68.4172	67.6817	4.0861e-01	1.6885e+00
82	PAN070136	50.2648	51.2566	50.8034	2.4048e-01	8.7922e-01
83	PAN080136	22.4246	23.2639	22.7191	1.7371e-01	8.7185e-01
84	PAN090136	21.1615	22.1533	21.5170	2.3710e-01	8.7166e-01
85	PAN100136	20.7521	21.4388	21.0878	1.5794e-01	8.7160e-01
86	PAN105136	15.0571	15.7437	15.3745	1.4893e-01	8.7085e-01
87	PAN110136	14.0345	14.6448	14.3961	1.3509e-01	8.7074e-01
88	PAN115136	12.4953	12.8768	12.7288	1.0613e-01	8.7058e-01
89	PAN120136	6.3464	6.8042	6.6150	1.2354e-01	8.7016e-01
90	PAN125136	8.6308	9.1649	8.8399	9.4779e-02	8.7028e-01
91	PAN130136	8.3051	8.6103	8.5127	8.4481e-02	8.7026e-01
92	PAN120048	20.4043	21.0910	20.7858	1.4127e-01	8.7155e-01
93	PAN130048	18.2989	18.7567	18.5355	1.2919e-01	8.7123e-01
94	PAN120224	20.0464	20.8094	20.3516	1.5414e-01	8.7149e-01
95	PAN130224	17.7532	18.3636	18.0309	1.3679e-01	8.7117e-01
96	PAN120312	20.7756	21.4623	21.1632	1.6081e-01	8.7161e-01
97	PAN130312	16.9184	17.4524	17.1061	1.3718e-01	8.7105e-01
98	PAB000136	39.7783	40.1903	39.9852	1.0225e-01	5.8855e-01
99	PAB100136	31.9426	32.1257	32.0442	5.0051e-02	5.8551e-01
100	PAB125136	29.9188	30.0561	29.9756	4.0902e-02	5.8482e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3684	40.1008	39.7493	1.8062e-01	7.5655e-01
102	PRV000001	15.7760	15.8981	15.8834	4.0071e-02	7.5105e-01
103	PSR000001	28.0136	28.2578	28.1772	6.3406e-02	7.5330e-01
104	PFM000001	61.8790	63.3439	62.6004	3.3378e-01	5.2392e-01
105	PAN000136	281.4990	290.1965	285.8385	2.0182e+00	4.9716e+00
106	PFM000002	27.5718	27.5718	27.5718	7.7069e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0065	2.3365e-03	0.0000e+00
108	EMPTY	-8.0713	-7.6709	-7.8647	7.2787e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW000001	101.7278	102.3137	101.9504	1.3093e-01	1.0150e+00
113	VPW000002	118.7387	119.1293	118.8989	1.2901e-01	1.0794e+00
114	VPW000003	146.4393	147.0252	146.6464	1.3329e-01	1.1959e+00
115	VPW000004	104.4396	105.0255	104.7990	1.4423e-01	1.0254e+00
116	VPW000005	138.7470	139.3329	139.0283	1.3182e-01	1.1627e+00
117	VPW000006	145.3463	145.7369	145.5298	1.2104e-01	1.1910e+00
118	IPW000001	561.2990	571.0607	566.9608	3.1369e+00	9.2559e+00
119	IPW000002	1277.6311	1291.2900	1285.7095	3.3220e+00	1.2991e+01
120	IPW000003	1306.2375	1314.0375	1310.1761	1.8263e+00	1.3143e+01
121	IPW000004	378.2114	382.1177	380.4280	7.8430e-01	3.6100e+00
122	IPW000005	253.9841	255.4488	254.5310	4.0236e-01	2.8361e+00
123	IPW000006	265.7471	267.2119	266.3037	3.8219e-01	2.9028e+00
124	EMPTY	-0.0293	-0.0098	-0.0200	4.6532e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0145	3.2658e-03	0.0000e+00
126	EMPTY	-0.0293	-0.0098	-0.0176	3.9459e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0171	3.1583e-03	0.0000e+00
128	IHT000001	131.2312	133.7703	132.4383	5.8486e-01	4.3086e+00
129	IHT000002	130.6265	132.9702	131.8101	5.3585e-01	4.3067e+00
130	IHT000003	129.1128	131.8472	130.4214	5.4569e-01	4.3024e+00
131	IHT000004	129.16895	134.0332	132.8770	5.2621e-01	4.3099e+00
132	IHT000005	129.8340	132.1777	131.0527	5.2728e-01	4.3044e+00
133	IHT000006	125.5859	128.1250	126.7305	5.3381e-01	4.2914e+00
134	IHT000007	131.7571	134.1008	132.9171	5.4449e-01	4.3101e+00
135	IHT000008	130.6152	132.7637	131.6504	5.0417e-01	4.3062e+00
136	IHT000009	130.4612	132.8050	131.3753	5.5022e-01	4.3053e+00
137	IHT000010	130.1157	132.8501	131.6391	5.1448e-01	4.3061e+00
138	IHT000011	131.2162	133.9506	132.7944	5.0043e-01	4.3097e+00
139	IHT000012	130.1871	132.9214	131.8628	5.2510e-01	4.3068e+00
140	IHT000013	91.7931	94.1369	93.1369	4.4928e-01	4.2045e+00
141	IHT000014	127.2724	129.8114	128.7216	4.8503e-01	4.2973e+00
142	IHT000015	94.5237	96.6722	95.8753	4.5990e-01	4.2106e+00
143	IHT000016	88.6719	90.8203	90.0430	4.4203e-01	4.1977e+00
144	IHT000017	104.6612	108.3722	106.5362	9.5520e-01	4.2362e+00
145	IHT000018	106.3927	109.7131	108.1037	5.8867e-01	4.2401e+00
146	IHT000019	106.6594	109.5891	108.3898	5.4820e-01	4.2409e+00
147	IHT000020	105.6039	108.5336	107.1352	5.7231e-01	4.2377e+00
148	IHT000021	-3.4067	-0.2817	-1.6958	6.9313e-01	4.1000e+00
149	IHT000022	92.5556	95.0947	93.9033	5.6531e-01	4.2062e+00
150	IHT000023	105.0180	107.3618	106.3345	5.5075e-01	4.2356e+00
151	IHT000024	70.3576	72.7013	71.5529	5.0937e-01	4.1620e+00
152	IHT000025	102.2161	104.3645	103.4035	5.1273e-01	4.2284e+00
153	IHT000026	104.8941	107.0425	106.0776	5.3000e-01	4.2350e+00
154	IHT000027	89.8100	92.1537	91.1811	5.0608e-01	4.2002e+00
155	IHT000028	90.8091	93.7387	92.0864	6.8710e-01	4.2021e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8331	108.7628	107.1299	6.8204e-01	4.2377e+00
157	IHT000030	108.1318	111.2568	109.7255	7.0626e-01	4.2443e+00
158	IHT000031	106.2124	109.1421	107.7046	6.7515e-01	4.2391e+00
159	IHT000032	107.0388	110.1638	108.6637	7.0855e-01	4.2416e+00
160	IHT000033	107.0313	109.9609	108.6055	6.7705e-01	4.2414e+00
161	IHT000034	93.9153	96.4543	95.2824	5.7453e-01	4.2093e+00
162	IHT000035	124.1211	126.2695	125.1797	5.4689e-01	4.2868e+00
163	IHT000036	92.7847	94.9332	93.8706	5.4983e-01	4.2061e+00

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sum2

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Velocity 1 = 20.0555 (ft/sec) (+/- 3.4938 %)
Velocity 2 = 13.3247 (ft/sec) (+/- 3.4863 %)
Pressure drop = 10.3516 (psi)
Tsat in = 267.0794 (deg F) Tsat out = 250.0356 (deg F)
Phi inner = 100.4592 (kBtu/hr-ft2) (+/- 1.5701 %)
Phi outer = 100.4190 (kBtu/hr-ft2) (+/- 1.5523 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.3267	73.9652	73.6786	1.7134e-01	1.9000e+00
1	TRF000002	73.8757	74.2992	74.1263	1.3441e-01	1.9000e+00
2	TFM000001	84.9529	85.6880	85.3085	2.0422e-01	1.9002e+00
3	TIN000001	85.1521	85.7831	85.4567	1.3954e-01	1.9002e+00
4	TRV000001	85.0684	86.2208	85.6053	2.1571e-01	1.9002e+00
5	TSR000001	109.7781	111.2152	110.3600	3.5266e-01	1.9011e+00
6	EMPTY	37.9974	38.6870	38.4150	2.1842e-01	1.9010e+00
7	TAO050136	121.6036	122.2155	121.9488	1.5394e-01	1.9018e+00
8	TAO070136	120.6051	121.4257	121.0304	2.0510e-01	1.9018e+00
9	TAO080136	121.7648	122.6803	122.2505	1.9407e-01	1.9018e+00
10	TAO090136	143.4588	144.3618	144.0646	2.0673e-01	1.9037e+00
11	TAO100136	123.9799	124.6928	124.3915	1.3154e-01	1.9020e+00
12	TAO105136	124.7933	125.8122	125.2593	2.9692e-01	1.9021e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	130.7423	131.6575	131.3315	2.1665e-01	1.9025e+00
15	EMPTY	37.3074	37.5374	37.3215	5.5731e-02	1.9009e+00
16	TAO125136	132.5239	133.1313	132.8338	1.3757e-01	1.9027e+00
17	EMPTY	44.8706	45.5552	45.1547	1.7135e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5151	1.0854e-01	1.9012e+00
19	TAO130048	124.6637	125.2747	124.9010	1.4887e-01	1.9020e+00
20	TAO120224	126.9168	127.9341	127.4171	2.1155e-01	1.9022e+00
21	EMPTY	39.1464	39.3761	39.1933	9.3508e-02	1.9010e+00
22	TAO120312	129.9060	130.7185	130.3684	2.1452e-01	1.9025e+00
23	TAO130312	125.7624	126.4742	126.1253	1.4379e-01	1.9021e+00
24	EMPTY	38.9168	39.6057	39.1980	1.5733e-01	1.9010e+00
25	TRT070000	118.5467	119.3687	118.9073	1.6545e-01	1.9016e+00
26	TRT100000	127.3755	128.3909	127.8852	1.9932e-01	1.9023e+00
27	TRT120000	127.3244	127.9344	127.6231	1.5307e-01	1.9022e+00
28	TRT125000	129.3544	130.0626	129.7836	1.7576e-01	1.9024e+00
29	EMPTY	39.6057	40.0646	39.7790	1.1018e-01	1.9011e+00
30	EMPTY	39.1464	39.8352	39.5775	1.9111e-01	1.9011e+00
31	TAF050136	95.6272	96.3555	95.9330	1.4780e-01	1.9005e+00
32	TAF070136	98.6814	99.8198	99.3739	2.2977e-01	1.9006e+00
33	TAF080136	100.2220	100.8441	100.4931	1.6192e-01	1.9006e+00
34	TAF090136	101.5843	102.6204	102.1045	2.6118e-01	1.9007e+00
35	TAF100136	103.9093	104.5315	104.2184	1.6454e-01	1.9008e+00
36	TAF105136	105.2814	106.2065	105.8196	2.0577e-01	1.9009e+00
37	TAF110136	106.9414	107.6630	107.2909	1.6406e-01	1.9009e+00
38	TAF115136	108.1360	108.9605	108.6363	1.9727e-01	1.9010e+00
39	TAF120136	109.2420	109.8601	109.5071	1.6538e-01	1.9011e+00
40	TAF125136	110.1226	111.1472	110.6138	2.2418e-01	1.9011e+00
41	TAF130136	111.0632	111.6811	111.4204	1.4109e-01	1.9012e+00
42	TAF120048	108.9381	109.7685	109.3411	2.1975e-01	1.9010e+00
43	TAF130048	110.0510	110.6697	110.3542	1.5802e-01	1.9011e+00
44	TAF120224	108.6376	109.5651	109.0813	1.7628e-01	1.9010e+00
45	TAF130224	110.1480	110.7674	110.4978	1.4113e-01	1.9011e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.3074	38.2273	37.8191	2.1133e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.0714	1.1849e-01	1.9010e+00
48	TAI130048	131.9190	132.5275	132.1138	1.2390e-01	1.9026e+00
49	TAI130136	131.5916	132.1996	131.8112	1.3920e-01	1.9026e+00
50	TAI130224	106.0053	107.5584	106.5968	3.1915e-01	1.9009e+00
51	TAI130312	112.3687	113.3986	112.8962	2.4471e-01	1.9012e+00
52	TRR130000	101.5842	103.3407	102.4740	3.5949e-01	1.9007e+00
53	TSI000001	40.8134	41.7930	41.2532	2.0120e-01	1.9006e+00
54	TSI000002	83.3978	84.8676	84.2528	3.7352e-01	1.9001e+00
55	TSO000001	39.9894	40.8644	40.4493	2.1083e-01	1.9006e+00
56	TSO000002	45.8761	46.6363	46.2817	1.9911e-01	1.9004e+00
57	TAF020136	88.9764	89.9237	89.4916	1.9947e-01	1.9003e+00
58	EMPTY	42.8139	43.5000	43.1359	2.7977e-01	1.9013e+00
59	TAF130312	111.3311	111.9484	111.5836	1.4703e-01	1.9012e+00
60	EMPTY	1.0791	1.0840	1.0795	1.3508e-03	0.0000e+00
61	EMPTY	1.0889	1.0938	1.0904	2.2737e-03	0.0000e+00
62	EMPTY	1.0986	1.1035	1.1000	2.2287e-03	0.0000e+00
63	EMPTY	1.1084	1.1182	1.1138	2.0535e-03	0.0000e+00
64	EMPTY	0.5957	0.6006	0.6002	1.3508e-03	0.0000e+00
65	EMPTY	0.6152	0.6201	0.6184	2.3483e-03	0.0000e+00
66	EMPTY	0.6299	0.6348	0.6337	2.0584e-03	0.0000e+00
67	EMPTY	0.6445	0.6543	0.6491	2.0926e-03	0.0000e+00
68	EMPTY	0.6592	0.6641	0.6619	2.4538e-03	0.0000e+00
69	EMPTY	0.6738	0.6836	0.6780	1.9934e-03	0.0000e+00
70	EMPTY	0.6885	0.6982	0.6929	2.2826e-03	0.0000e+00
71	EMPTY	0.7080	0.7178	0.7157	3.1518e-03	0.0000e+00
72	EMPTY	0.7227	0.7324	0.7271	2.4080e-03	0.0000e+00
73	EMPTY	0.7373	0.7471	0.7449	3.0003e-03	0.0000e+00
74	EMPTY	0.7520	0.7617	0.7588	3.4409e-03	0.0000e+00
75	EMPTY	0.7666	0.7764	0.7750	2.8191e-03	0.0000e+00
76	EMPTY	0.7813	0.7910	0.7881	3.4409e-03	0.0000e+00
77	EMPTY	0.8008	0.8105	0.8054	2.0926e-03	0.0000e+00
78	EMPTY	0.8203	0.8301	0.8278	3.3210e-03	0.0000e+00
79	EMPTY	0.8398	0.8545	0.8485	2.4948e-03	0.0000e+00
80	PAN020136	32.5484	34.9135	33.6507	4.9982e-01	8.7406e-01
81	PAN050136	67.3491	68.5698	67.8909	3.2527e-01	1.6886e+00
82	PAN070136	50.4937	51.6381	51.0059	2.7420e-01	8.7930e-01
83	PAN080136	22.1195	22.9587	22.6146	1.7490e-01	8.7184e-01
84	PAN090136	21.8481	22.3822	22.1269	1.3356e-01	8.7176e-01
85	PAN100136	19.9892	20.6758	20.3348	1.3586e-01	8.7148e-01
86	PAN105136	15.2097	16.4304	15.7453	2.1941e-01	8.7089e-01
87	PAN110136	14.0345	14.7974	14.4082	1.7636e-01	8.7075e-01
88	PAN115136	12.4190	13.0294	12.6978	1.2218e-01	8.7058e-01
89	PAN120136	6.3464	6.8805	6.6641	1.1997e-01	8.7016e-01
90	PAN125136	8.7071	9.0886	8.8675	8.1288e-02	8.7028e-01
91	PAN130136	8.3814	8.6866	8.5325	8.3125e-02	8.7026e-01
92	PAN120048	20.4806	21.0910	20.8247	1.5109e-01	8.7156e-01
93	PAN130048	18.2226	18.9093	18.5341	1.3014e-01	8.7123e-01
94	PAN120224	19.7413	20.3516	20.1165	1.3651e-01	8.7145e-01
95	PAN130224	17.7532	18.3636	18.0522	1.1946e-01	8.7117e-01
96	PAN120312	20.8519	21.6149	21.2754	1.7135e-01	8.7162e-01
97	PAN130312	16.9184	17.4524	17.1519	1.3160e-01	8.7106e-01
98	PAB000136	39.6410	40.0072	39.8063	1.0142e-01	5.8848e-01
99	PAB100136	31.7595	31.9426	31.8623	4.6280e-02	5.8544e-01
100	PAB125136	29.6899	29.8273	29.7871	3.5744e-02	5.8476e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3684	39.9787	39.5951	1.8647e-01	7.5650e-01
102	PRV000001	15.7760	15.8981	15.7885	3.7334e-02	7.5104e-01
103	PSR000001	27.8915	28.0136	27.9638	6.0619e-02	7.5325e-01
104	PFM000001	62.1537	63.8016	62.7571	3.7512e-01	5.2404e-01
105	PAN000136	283.3300	290.6542	286.5903	1.8349e+00	4.9719e+00
106	PFM000002	27.5718	27.5718	27.5718	7.7085e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0081	2.3483e-03	0.0000e+00
108	EMPTY	-8.1250	-7.8027	-7.9370	7.4480e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9754e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0003	1.1827e-03	0.0000e+00
112	VPW0000001	101.3372	102.3137	101.8274	2.2596e-01	1.0146e+00
113	VPW0000002	118.7387	119.3247	118.9181	1.3716e-01	1.0794e+00
114	VPW0000003	146.4393	147.0252	146.7502	1.2556e-01	1.1964e+00
115	VPW0000004	104.6349	105.2208	104.8183	1.6634e-01	1.0255e+00
116	VPW0000005	138.7470	139.1376	138.9982	1.1960e-01	1.1626e+00
117	VPW0000006	145.1510	145.7369	145.4897	1.4250e-01	1.1908e+00
118	IPW0000001	543.7279	553.4896	548.2302	2.5581e+00	9.1852e+00
119	IPW0000002	1302.9977	1310.8027	1307.2184	2.1941e+00	1.3125e+01
120	IPW0000003	1327.6875	1333.5375	1330.3934	1.6323e+00	1.3269e+01
121	IPW0000004	376.7466	378.6997	377.7129	4.8306e-01	3.5922e+00
122	IPW0000005	253.4959	254.9606	254.1536	3.9300e-01	2.8340e+00
123	IPW0000006	266.7236	268.6768	267.8098	4.1414e-01	2.9114e+00
124	EMPTY	-0.0244	-0.0146	-0.0197	3.4468e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.8866e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0162	3.0538e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.4615e-03	0.0000e+00
128	IHT0000001	131.4265	133.7703	132.5427	5.3041e-01	4.3089e+00
129	IHT0000002	130.8218	133.1655	131.9060	4.8183e-01	4.3070e+00
130	IHT0000003	129.5034	131.8472	130.5916	4.9954e-01	4.3030e+00
131	IHT0000004	132.0801	134.2285	133.0367	4.9192e-01	4.3104e+00
132	IHT0000005	130.2246	132.1777	131.1892	4.7576e-01	4.3048e+00
133	IHT0000006	125.7812	127.9297	126.8495	4.5299e-01	4.2917e+00
134	IHT0000007	132.1477	134.1008	133.0365	4.7183e-01	4.3104e+00
135	IHT0000008	131.0058	133.3496	131.8309	4.9195e-01	4.3067e+00
136	IHT0000009	130.6565	132.8050	131.4857	5.0670e-01	4.3057e+00
137	IHT0000010	130.5063	132.4594	131.6144	5.0491e-01	4.3061e+00
138	IHT0000011	131.6068	133.5600	132.6751	4.6682e-01	4.3093e+00
139	IHT0000012	130.5777	132.7261	131.7216	5.3785e-01	4.3064e+00
140	IHT0000013	91.9884	94.3322	93.0926	5.0201e-01	4.2044e+00
141	IHT0000014	127.6630	129.6161	128.6197	4.8048e-01	4.2970e+00
142	IHT0000015	94.9143	96.8675	95.7873	4.8682e-01	4.2104e+00
143	IHT0000016	88.8672	91.0156	89.8398	4.8745e-01	4.1973e+00
144	IHT0000017	104.6612	108.7628	106.8335	9.5153e-01	4.2369e+00
145	IHT0000018	106.7834	109.5177	108.0549	6.1392e-01	4.2400e+00
146	IHT0000019	107.6360	109.3938	108.5208	5.2454e-01	4.2412e+00
147	IHT0000020	106.1899	108.7289	107.2861	5.5503e-01	4.2380e+00
148	IHT0000021	-2.8208	0.3042	-1.4895	6.5833e-01	4.1000e+00
149	IHT0000022	92.5556	95.0947	93.8949	4.8665e-01	4.2061e+00
150	IHT0000023	105.4086	107.7524	106.4410	4.7508e-01	4.2359e+00
151	IHT0000024	70.7482	72.7013	71.6451	4.4021e-01	4.1621e+00
152	IHT0000025	102.6067	104.3645	103.4875	4.0486e-01	4.2286e+00
153	IHT0000026	105.2847	107.2378	106.1775	4.2567e-01	4.2353e+00
154	IHT0000027	90.2006	92.1537	91.0696	4.4406e-01	4.1999e+00
155	IHT0000028	91.0044	93.5434	92.1005	6.3766e-01	4.2022e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0284	108.5675	107.2800	5.9123e-01	4.2380e+00
157	IHT000030	108.3271	110.8661	109.7979	6.4790e-01	4.2445e+00
158	IHT000031	106.4077	109.1421	107.7709	6.6651e-01	4.2393e+00
159	IHT000032	107.4294	110.3591	108.6571	7.0871e-01	4.2415e+00
160	IHT000033	107.4219	110.1563	108.6177	6.8549e-01	4.2414e+00
161	IHT000034	94.3059	96.8450	95.3263	5.7535e-01	4.2094e+00
162	IHT000035	124.1211	126.6602	125.2132	5.9391e-01	4.2869e+00
163	IHT000036	92.7847	95.1285	93.8888	5.3123e-01	4.2061e+00

Velocity 1 = 0.024000 (ft/sec)
 Velocity 2 = 0.000600 (ft/sec)
 Pressure Drop = 0.027100 (psi)
 Tsat in = 0.267181 (deg F) Tsat out = 0.365906 (deg F)
 Phi inner = 1.420502 (kBtu/hr-ft2) Phi outer = 0.094101 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0496	0.0674
1	TRF000002	0.0092	0.0124
2	TFM000001	0.5714	0.6653
3	TIN000001	0.6039	0.7017
4	TRV000001	1.1968	1.3788
5	TSR000001	0.7959	0.7264
6	EMPTY	0.0452	0.1178
7	TAO050136	0.6837	0.5575
8	TAO070136	0.5603	0.4608
9	TAO080136	0.5501	0.4480
10	TAO090136	1.4802	1.0381
11	TAO100136	0.6594	0.5273
12	TAO105136	0.6461	0.5132
13	EMPTY	0.0000	0.0000
14	TAO115136	0.6435	0.4876
15	EMPTY	0.0089	0.0238
16	TAO125136	0.6143	0.4603
17	EMPTY	0.0582	0.1287
18	EMPTY	0.0076	0.0183
19	TAO130048	0.6237	0.4969
20	TAO120224	0.6465	0.5048
21	EMPTY	0.0331	0.0845
22	TAO120312	0.5940	0.4536
23	TAO130312	0.5954	0.4699
24	EMPTY	0.0102	0.0260
25	TRT070000	0.3722	0.3120
26	TRT100000	0.6429	0.5002
27	TRT120000	0.6033	0.4705
28	TRT125000	0.6604	0.5063
29	EMPTY	0.0562	0.1411
30	EMPTY	0.0695	0.1753
31	TAF050136	0.6330	0.6555
32	TAF070136	0.5806	0.5809
33	TAF080136	0.5875	0.5812
34	TAF090136	0.5487	0.5345
35	TAF100136	0.5784	0.5519
36	TAF105136	0.5520	0.5189
37	TAF110136	0.5515	0.5114
38	TAF115136	0.5247	0.4807
39	TAF120136	0.6339	0.5755
40	TAF125136	0.6298	0.5661
41	TAF130136	0.6208	0.5541
42	TAF120048	0.6521	0.5929
43	TAF130048	0.6237	0.5620
44	TAF120224	0.6352	0.5789
45	TAF130224	0.6182	0.5564

#	Name	Abs Diff	%Diff
46	EMPTY	0.1277	0.3365
47	EMPTY	0.0842	0.2150
48	TAI130048	0.5996	0.4518
49	TAI130136	0.5929	0.4478
50	TAI130224	1.3918	1.2888
51	TAI130312	1.6087	1.4049
52	TRR130000	0.8241	0.7978
53	TSI000001	0.3345	0.8043
54	TSI000002	2.0356	2.3591
55	TSO000001	0.3591	0.8800
56	TSO000002	0.3716	0.7965
57	TAF020136	0.6558	0.7275
58	EMPTY	0.0211	0.0489
59	TAF130312	0.6519	0.5808
60	EMPTY	0.0168	1.5324
61	EMPTY	0.0169	1.5262
62	EMPTY	0.0170	1.5219
63	EMPTY	0.0151	1.3376
64	EMPTY	0.0053	0.8753
65	EMPTY	0.0054	0.8657
66	EMPTY	0.0057	0.8915
67	EMPTY	0.0053	0.8099
68	EMPTY	0.0059	0.8835
69	EMPTY	0.0059	0.8627
70	EMPTY	0.0053	0.7591
71	EMPTY	0.0050	0.6938
72	EMPTY	0.0054	0.7372
73	EMPTY	0.0058	0.7726
74	EMPTY	0.0060	0.7845
75	EMPTY	0.0055	0.7047
76	EMPTY	0.0059	0.7431
77	EMPTY	0.0061	0.7517
78	EMPTY	0.0061	0.7315
79	EMPTY	0.0060	0.7022
80	PAN020136	0.3180	0.9540
81	PAN050136	0.2092	0.3091
82	PAN070136	0.2025	0.3986
83	PAN080136	0.1045	0.4600
84	PAN090136	0.6099	2.8345
85	PAN100136	0.7530	3.5708
86	PAN105136	0.3708	2.4118
87	PAN110136	0.0121	0.0841
88	PAN115136	0.0310	0.2435
89	PAN120136	0.0491	0.7423
90	PAN125136	0.0276	0.3122
91	PAN130136	0.0198	0.2326
92	PAN120048	0.0389	0.1871
93	PAN130048	0.0014	0.0076
94	PAN120224	0.2351	1.1552
95	PAN130224	0.0213	0.1181
96	PAN120312	0.1122	0.5302
97	PAN130312	0.0458	0.2677
98	PAB000136	0.1789	0.4474
99	PAB100136	0.1819	0.5677
100	PAB125136	0.1885	0.6288

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1542	0.3879
102	PRV000001	0.0949	0.5975
103	PSR000001	0.2134	0.7573
104	PFM000001	0.1567	0.2503
105	PAN000136	0.7518	0.2630
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0016	24.6154
108	EMPTY	0.0723	0.9193
109	EMPTY	0.0001	2.1277
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	50.0000
112	VPW000001	0.1230	0.1206
113	VPW000002	0.0192	0.0161
114	VPW000003	0.1038	0.0708
115	VPW000004	0.0193	0.0184
116	VPW000005	0.0301	0.0217
117	VPW000006	0.0401	0.0276
118	IPW000001	18.7306	3.3037
119	IPW000002	21.5089	1.6729
120	IPW000003	20.2173	1.5431
121	IPW000004	2.7151	0.7137
122	IPW000005	0.3774	0.1483
123	IPW000006	1.5061	0.5656
124	EMPTY	0.0003	1.5000
125	EMPTY	0.0014	9.6552
126	EMPTY	0.0014	7.9545
127	EMPTY	0.0003	1.7544
128	IHT000001	0.1044	0.0788
129	IHT000002	0.0959	0.0728
130	IHT000003	0.1702	0.1305
131	IHT000004	0.1597	0.1202
132	IHT000005	0.1365	0.1041
133	IHT000006	0.1190	0.0939
134	IHT000007	0.1194	0.0898
135	IHT000008	0.1805	0.1371
136	IHT000009	0.1104	0.0840
137	IHT000010	0.0247	0.0188
138	IHT000011	0.1193	0.0898
139	IHT000012	0.1412	0.1071
140	IHT000013	0.0443	0.0476
141	IHT000014	0.1019	0.0792
142	IHT000015	0.0880	0.0918
143	IHT000016	0.2032	0.2257
144	IHT000017	0.2973	0.2791
145	IHT000018	0.0488	0.0451
146	IHT000019	0.1310	0.1209
147	IHT000020	0.1509	0.1409
148	IHT000021	0.2063	12.1653
149	IHT000022	0.0084	0.0089
150	IHT000023	0.1065	0.1002
151	IHT000024	0.0922	0.1289
152	IHT000025	0.0840	0.0812
153	IHT000026	0.0999	0.0942
154	IHT000027	0.1115	0.1223
155	IHT000028	0.0141	0.0153

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1501	0.1401
157	IHT000030	0.0724	0.0660
158	IHT000031	0.0663	0.0616
159	IHT000032	0.0066	0.0061
160	IHT000033	0.0122	0.0112
161	IHT000034	0.0439	0.0461
162	IHT000035	0.0335	0.0268
163	IHT000036	0.0182	0.0194

Velocity 1 = 14.0278 (ft/sec) (+/- 3.5660 %)
Velocity 2 = 13.3245 (ft/sec) (+/- 3.4863 %)
Pressure drop = 2.3933 (psi)
Tsat in = 267.5211 (deg F) Tsat out = 263.9876 (deg F)
Phi inner = 99.0662 (kBtu/hr-ft2) (+/- 1.5736 %)
Phi outer = 99.6705 (kBtu/hr-ft2) (+/- 1.5540 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.5396	74.1780	73.8120	1.7222e-01	1.9000e+00
1	TRF000002	73.8757	74.5108	74.2314	1.1666e-01	1.9000e+00
2	TFM000001	84.7431	85.5832	85.1298	1.9834e-01	1.9002e+00
3	TIN000001	85.0466	85.6781	85.3539	1.5601e-01	1.9002e+00
4	TRV000001	85.3828	86.1163	85.7019	2.1073e-01	1.9002e+00
5	TSR000001	117.2481	120.0020	118.9539	8.0135e-01	1.9016e+00
6	EMPTY	37.7675	38.6870	38.3790	2.3955e-01	1.9010e+00
7	TAO050136	136.9645	137.6694	137.2306	1.6248e-01	1.9030e+00
8	TAO070136	132.2634	132.9747	132.6331	1.9237e-01	1.9026e+00
9	TAO080136	133.7889	134.3954	134.1081	1.3739e-01	1.9028e+00
10	TAO090136	153.3479	154.1453	153.7823	2.1465e-01	1.9047e+00
11	TAO100136	138.0595	138.6645	138.3501	1.5994e-01	1.9031e+00
12	TAO105136	138.9749	139.7811	139.3823	2.1337e-01	1.9032e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	146.2286	147.2332	146.6708	2.1773e-01	1.9040e+00
15	EMPTY	37.5374	37.7675	37.6065	1.0648e-01	1.9010e+00
16	TAO125136	148.8547	149.4547	149.1228	1.5026e-01	1.9042e+00
17	EMPTY	44.8706	45.5552	45.2312	1.6030e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5411	1.1486e-01	1.9012e+00
19	TAO130048	139.2893	139.8936	139.6073	1.5390e-01	1.9033e+00
20	TAO120224	142.0838	142.8881	142.4741	2.0380e-01	1.9035e+00
21	EMPTY	38.9168	39.6057	39.2337	1.5309e-01	1.9010e+00
22	TAO120312	145.4632	146.4673	145.9853	2.4923e-01	1.9039e+00
23	TAO130312	140.5018	141.3060	140.9001	1.6623e-01	1.9034e+00
24	EMPTY	38.9168	39.6057	39.2934	1.7209e-01	1.9010e+00
25	TRT070000	132.7001	133.5146	133.1523	2.0058e-01	1.9027e+00
26	TRT100000	142.6109	143.3140	142.9285	1.7144e-01	1.9036e+00
27	TRT120000	143.1824	143.9854	143.6039	1.6236e-01	1.9036e+00
28	TRT125000	145.3933	146.0929	145.7051	1.8126e-01	1.9039e+00
29	EMPTY	39.6057	40.0646	39.8535	9.0851e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6470	2.1095e-01	1.9011e+00
31	TAF050136	99.6701	100.6028	100.2051	2.0656e-01	1.9006e+00
32	TAF070136	104.3530	105.2794	104.8632	2.1013e-01	1.9008e+00
33	TAF080136	106.3900	107.0073	106.6906	1.6476e-01	1.9009e+00
34	TAF090136	108.3014	109.4349	108.8948	2.9705e-01	1.9010e+00
35	TAF100136	111.5594	112.3841	112.0091	2.0480e-01	1.9012e+00
36	TAF105136	113.4505	114.4701	114.0633	2.2480e-01	1.9013e+00
37	TAF110136	116.0544	116.5665	116.2802	1.5477e-01	1.9014e+00
38	TAF115136	117.6710	118.3872	118.0927	1.7850e-01	1.9016e+00
39	TAF120136	119.1484	120.0659	119.5079	1.5329e-01	1.9017e+00
40	TAF125136	120.5127	121.5285	121.0784	2.5640e-01	1.9018e+00
41	TAF130136	122.0025	122.6151	122.2436	1.3324e-01	1.9018e+00
42	TAF120048	118.9719	119.8972	119.4282	2.2589e-01	1.9016e+00
43	TAF130048	120.7148	121.2265	121.0217	1.3857e-01	1.9018e+00
44	TAF120224	118.5871	119.4053	118.9392	2.0470e-01	1.9016e+00
45	TAF130224	120.7691	121.4867	121.1544	1.5706e-01	1.9018e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9974	2.1790e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2383	1.2275e-01	1.9010e+00
48	TAI130048	147.7275	148.2284	147.9240	1.2305e-01	1.9041e+00
49	TAI130136	147.3504	147.9506	147.6666	1.3000e-01	1.9041e+00
50	TAI130224	107.9718	109.4200	108.7911	3.1184e-01	1.9010e+00
51	TAI130312	119.9672	120.9909	120.5813	2.2365e-01	1.9017e+00
52	TRR130000	102.9264	105.0937	104.2602	4.5938e-01	1.9008e+00
53	TSI000001	41.0316	41.6844	41.3579	1.7737e-01	1.9006e+00
54	TSI000002	85.4960	87.1732	86.3267	3.5863e-01	1.9002e+00
55	TSO000001	40.0974	40.8644	40.5010	1.8564e-01	1.9006e+00
56	TSO000002	46.6362	47.5039	47.0570	2.0285e-01	1.9004e+00
57	TAF020136	90.9777	91.7130	91.3052	1.9178e-01	1.9003e+00
58	EMPTY	42.8139	43.5000	43.1890	2.5205e-01	1.9013e+00
59	TAF130312	122.3779	123.1935	122.7452	1.9317e-01	1.9019e+00
60	EMPTY	1.3379	1.3428	1.3409	2.3941e-03	0.0000e+00
61	EMPTY	1.3477	1.3525	1.3486	1.9730e-03	0.0000e+00
62	EMPTY	1.3525	1.3623	1.3572	1.3811e-03	0.0000e+00
63	EMPTY	1.3672	1.3721	1.3674	9.6655e-04	0.0000e+00
64	EMPTY	0.7080	0.7129	0.7119	1.9730e-03	0.0000e+00
65	EMPTY	0.7227	0.7324	0.7278	1.5314e-03	0.0000e+00
66	EMPTY	0.7422	0.7471	0.7425	1.1714e-03	0.0000e+00
67	EMPTY	0.7568	0.7617	0.7571	1.1714e-03	0.0000e+00
68	EMPTY	0.7715	0.7715	0.7715	0.0000e+00	0.0000e+00
69	EMPTY	0.7861	0.7910	0.7862	6.9053e-04	0.0000e+00
70	EMPTY	0.8008	0.8008	0.8008	0.0000e+00	0.0000e+00
71	EMPTY	0.8203	0.8252	0.8214	2.0432e-03	0.0000e+00
72	EMPTY	0.8350	0.8350	0.8350	0.0000e+00	0.0000e+00
73	EMPTY	0.8496	0.8545	0.8501	1.4797e-03	0.0000e+00
74	EMPTY	0.8643	0.8643	0.8643	0.0000e+00	0.0000e+00
75	EMPTY	0.8740	0.8789	0.8787	9.6655e-04	0.0000e+00
76	EMPTY	0.8887	0.8936	0.8933	1.1714e-03	0.0000e+00
77	EMPTY	0.9082	0.9131	0.9093	2.0432e-03	0.0000e+00
78	EMPTY	0.9277	0.9326	0.9322	1.3381e-03	0.0000e+00
79	EMPTY	0.9521	0.9570	0.9523	9.6655e-04	0.0000e+00
80	PAN020136	6.4558	7.2951	6.7809	1.8355e-01	8.7017e-01
81	PAN050136	15.7743	16.5373	16.2199	2.0177e-01	1.6805e+00
82	PAN070136	12.6519	13.2622	12.9799	1.4148e-01	8.7060e-01
83	PAN080136	4.3430	4.8007	4.6039	9.7594e-02	8.7008e-01
84	PAN090136	4.9872	5.5212	5.2664	1.0523e-01	8.7010e-01
85	PAN100136	3.5860	3.9674	3.7721	9.8888e-02	8.7005e-01
86	PAN105136	5.7492	6.1307	5.9293	8.9559e-02	8.7013e-01
87	PAN110136	2.7430	3.1245	2.8757	9.9666e-02	8.7003e-01
88	PAN115136	3.2638	3.5690	3.4042	8.0624e-02	8.7004e-01
89	PAN120136	0.2429	0.5481	0.3635	7.2444e-02	8.7000e-01
90	PAN125136	1.1540	1.4592	1.2944	8.0624e-02	8.7001e-01
91	PAN130136	1.3624	1.6676	1.5531	8.0462e-02	8.7001e-01
92	PAN120048	4.7641	5.1455	4.9136	1.1111e-01	8.7009e-01
93	PAN130048	3.3453	3.7268	3.4872	8.7207e-02	8.7004e-01
94	PAN120224	4.0247	4.4062	4.2261	8.9559e-02	8.7006e-01
95	PAN130224	3.1811	3.6388	3.4206	9.6271e-02	8.7004e-01
96	PAN120312	4.7539	5.1354	4.9858	9.4966e-02	8.7009e-01
97	PAN130312	2.8803	3.1855	3.0130	9.2238e-02	8.7003e-01
98	PAB000136	39.9614	40.2361	40.1024	6.4632e-02	5.8860e-01
99	PAB100136	38.1682	38.3055	38.2424	3.9117e-02	5.8783e-01
100	PAB125136	37.7008	37.8381	37.7878	4.0576e-02	5.8764e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.6125	40.1008	39.8884	1.1517e-01	7.5660e-01
102	PRV0000001	15.5319	15.5319	15.5319	5.7801e-06	7.5100e-01
103	PSR0000001	37.0468	37.1689	37.0810	5.5366e-02	7.5571e-01
104	PFM0000001	30.2018	30.9342	30.5808	2.0093e-01	5.0581e-01
105	PAN000136	63.1457	69.0966	66.2585	1.0903e+00	4.9228e+00
106	PFM0000002	27.5718	27.5718	27.5718	7.7069e-06	2.1154e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-8.3105	-6.8652	-7.3036	4.1454e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0007	2.2080e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	101.5325	102.1184	101.7238	1.4493e-01	1.0142e+00
113	VPW0000002	118.7387	119.1293	118.8286	1.1975e-01	1.0791e+00
114	VPW0000003	146.4393	146.8299	146.6503	1.1732e-01	1.1960e+00
115	VPW0000004	104.4396	105.0255	104.7521	1.8508e-01	1.0252e+00
116	VPW0000005	138.5517	139.5282	139.0517	2.3728e-01	1.1628e+00
117	VPW0000006	145.1510	145.9322	145.5298	1.9092e-01	1.1910e+00
118	IPW0000001	561.2990	567.1560	564.3837	1.3135e+00	9.2460e+00
119	IPW0000002	1271.7773	1279.5824	1275.2900	1.6254e+00	1.2927e+01
120	IPW0000003	1308.1875	1314.0375	1310.9172	1.4741e+00	1.3148e+01
121	IPW0000004	379.1880	380.6528	379.7053	3.7447e-01	3.6053e+00
122	IPW0000005	253.4959	254.9606	254.1111	3.9220e-01	2.8337e+00
123	IPW0000006	264.7705	266.7236	265.9619	4.7474e-01	2.9008e+00
124	EMPTY	-0.0293	-0.0146	-0.0234	3.8206e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0157	2.6635e-03	0.0000e+00
126	EMPTY	-0.0293	-0.0146	-0.0210	3.3087e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0181	3.4527e-03	0.0000e+00
128	IHT0000001	131.0359	133.5750	132.2704	5.5725e-01	4.3081e+00
129	IHT0000002	130.2359	132.7749	131.6655	5.1966e-01	4.3062e+00
130	IHT0000003	128.9175	131.6519	130.4136	5.4763e-01	4.3024e+00
131	IHT0000004	131.6895	133.8379	132.8340	5.0841e-01	4.3098e+00
132	IHT0000005	129.8340	132.1777	131.0176	4.8070e-01	4.3042e+00
133	IHT0000006	125.5859	127.7344	126.6601	4.8368e-01	4.2912e+00
134	IHT0000007	131.7571	134.1008	132.8859	4.6570e-01	4.3100e+00
135	IHT0000008	130.4199	132.9590	131.5723	4.7556e-01	4.3059e+00
136	IHT0000009	129.6800	132.8050	131.2347	5.8787e-01	4.3049e+00
137	IHT0000010	130.5063	133.0454	131.5727	5.3555e-01	4.3059e+00
138	IHT0000011	131.9975	133.9506	132.7749	4.6604e-01	4.3096e+00
139	IHT0000012	130.9683	132.7261	131.8316	4.5863e-01	4.3067e+00
140	IHT0000013	92.1838	94.1369	93.1525	4.6010e-01	4.2045e+00
141	IHT0000014	127.4677	129.6161	128.7021	4.7259e-01	4.2973e+00
142	IHT0000015	94.9143	96.8675	95.7620	4.2427e-01	4.2103e+00
143	IHT0000016	88.3672	90.8203	89.8008	4.6737e-01	4.1972e+00
144	IHT0000017	104.4659	107.5909	106.0830	6.7317e-01	4.2350e+00
145	IHT0000018	106.5881	108.9318	108.0099	4.7357e-01	4.2399e+00
146	IHT0000019	107.2454	109.1985	108.3156	4.6562e-01	4.2407e+00
147	IHT0000020	105.7993	108.1430	106.9204	4.9096e-01	4.2371e+00
148	IHT0000021	-3.0161	-0.2817	-1.7231	6.0988e-01	4.1000e+00
149	IHT0000022	92.5556	94.7040	93.5791	4.7443e-01	4.2054e+00
150	IHT0000023	105.2133	107.1665	106.1313	4.7556e-01	4.2351e+00
151	IHT0000024	70.3576	72.3107	71.3342	4.4468e-01	4.1616e+00
152	IHT0000025	102.4114	104.3645	103.2824	4.3977e-01	4.2281e+00
153	IHT0000026	104.8941	107.0425	105.9683	4.9007e-01	4.2347e+00
154	IHT0000027	89.8100	92.1537	90.8881	5.2235e-01	4.1995e+00
155	IHT0000028	90.4184	93.7387	91.8091	6.2843e-01	4.2015e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6378	108.5675	106.9307	5.9828e-01	4.2371e+00
157	IHT000030	107.9365	110.8661	109.4404	5.6943e-01	4.2436e+00
158	IHT000031	106.4077	108.7515	107.4312	5.5462e-01	4.2384e+00
159	IHT000032	107.2341	109.7731	108.3356	5.8229e-01	4.2407e+00
160	IHT000033	107.0313	109.7656	108.2734	5.9420e-01	4.2406e+00
161	IHT000034	93.9153	96.2590	95.1184	5.5011e-01	4.2089e+00
162	IHT000035	123.9258	126.0742	125.0664	5.6821e-01	4.2865e+00
163	IHT000036	92.7847	94.9332	93.7808	5.3561e-01	4.2059e+00

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sum2

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Velocity 1 = 14.0477 (ft/sec) (+/- 3.5655 %)
Velocity 2 = 13.3244 (ft/sec) (+/- 3.4863 %)
Pressure drop = 2.4428 (psi)
Tsat in = 267.2665 (deg F) Tsat out = 263.6688 (deg F)
Phi inner = 99.8253 (kBtu/hr-ft2) (+/- 1.5717 %)
Phi outer = 100.5158 (kBtu/hr-ft2) (+/- 1.5513 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.5396	74.1780	73.8523	1.4476e-01	1.9000e+00
1	TRF000002	74.0875	74.5108	74.2689	1.2963e-01	1.9000e+00
2	TFM000001	84.7437	85.3735	85.0072	1.6466e-01	1.9002e+00
3	TIN000001	84.8361	85.5727	85.1755	1.6391e-01	1.9002e+00
4	TRV000001	85.1739	86.0123	85.5996	2.1100e-01	1.9002e+00
5	TSR000001	119.0845	122.0378	121.0917	9.0813e-01	1.9018e+00
6	EMPTY	37.9974	38.9168	38.4337	2.4488e-01	1.9010e+00
7	TAO050136	134.7529	135.3587	135.0677	1.6282e-01	1.9029e+00
8	TAO070136	131.7540	132.7712	132.3871	2.0357e-01	1.9026e+00
9	TAO080136	133.4880	134.0941	133.8234	1.4623e-01	1.9027e+00
10	TAO090136	155.8347	156.6292	156.2905	1.6837e-01	1.9050e+00
11	TAO100136	137.6564	138.3624	138.0024	1.5259e-01	1.9031e+00
12	TAO105136	138.7733	139.5801	139.1707	2.6292e-01	1.9032e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	145.9261	146.8314	146.3717	2.2574e-01	1.9039e+00
15	EMPTY	37.3074	37.7675	37.5421	9.9502e-02	1.9009e+00
16	TAO125136	148.3576	148.9572	148.7382	1.5608e-01	1.9042e+00
17	EMPTY	44.8706	45.5552	45.1873	2.0205e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5338	1.1376e-01	1.9012e+00
19	TAO130048	138.8880	139.3925	139.1433	1.2003e-01	1.9032e+00
20	TAO120224	141.6816	142.3860	142.1662	1.9760e-01	1.9035e+00
21	EMPTY	39.1464	39.6057	39.2496	1.2455e-01	1.9010e+00
22	TAO120312	145.1620	146.2666	145.7050	2.5014e-01	1.9039e+00
23	TAO130312	140.3010	140.8049	140.6133	1.3498e-01	1.9034e+00
24	EMPTY	38.9168	39.6057	39.2449	1.9327e-01	1.9010e+00
25	TRT070000	132.3945	133.4117	132.8136	2.1248e-01	1.9027e+00
26	TRT100000	142.1102	142.9133	142.4970	1.6522e-01	1.9035e+00
27	TRT120000	142.8810	143.5844	143.1659	1.5662e-01	1.9036e+00
28	TRT125000	144.8945	145.5959	145.2543	1.5924e-01	1.9038e+00
29	EMPTY	39.6057	40.0646	39.8352	1.0475e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6056	2.2471e-01	1.9011e+00
31	TAF050136	99.4631	100.3969	99.9289	1.9287e-01	1.9006e+00
32	TAF070136	104.0440	104.9700	104.5843	1.8752e-01	1.9008e+00
33	TAF080136	106.1855	106.8041	106.4397	1.5724e-01	1.9009e+00
34	TAF090136	108.0951	109.2293	108.6169	2.2993e-01	1.9010e+00
35	TAF100136	111.3538	112.0749	111.7133	1.8468e-01	1.9012e+00
36	TAF105136	113.4505	114.3697	113.8685	2.3078e-01	1.9013e+00
37	TAF110136	115.7492	116.3625	116.0518	1.5192e-01	1.9014e+00
38	TAF115136	117.5690	118.1837	117.8555	1.4456e-01	1.9015e+00
39	TAF120136	118.9450	119.4571	119.2207	1.2716e-01	1.9016e+00
40	TAF125136	120.3098	121.3279	120.7010	2.8153e-01	1.9017e+00
41	TAF130136	121.5953	122.3099	121.9079	1.5218e-01	1.9018e+00
42	TAF120048	118.5590	119.4841	119.0211	2.3111e-01	1.9016e+00
43	TAF130048	120.2043	120.9202	120.5842	1.5475e-01	1.9017e+00
44	TAF120224	118.1789	118.9973	118.6692	1.8670e-01	1.9016e+00
45	TAF130224	120.5628	121.2805	120.8185	1.3734e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.8707	1.9390e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1183	8.9357e-02	1.9010e+00
48	TAI130048	147.1268	147.6281	147.4010	1.1530e-01	1.9040e+00
49	TAI130136	147.0512	147.6521	147.3067	1.6080e-01	1.9040e+00
50	TAI130224	109.6262	111.1749	110.3767	3.8619e-01	1.9011e+00
51	TAI130312	121.1951	122.3197	121.7252	2.6775e-01	1.9018e+00
52	TRR130000	106.0205	107.9754	106.9780	4.7025e-01	1.9009e+00
53	TSI000001	40.8141	41.4678	41.2250	1.7814e-01	1.9006e+00
54	TSI000002	85.1827	86.6498	85.7407	3.3177e-01	1.9002e+00
55	TSO000001	39.8790	40.8635	40.4240	1.8625e-01	1.9006e+00
56	TSO000002	46.5273	47.2872	46.9616	1.7298e-01	1.9004e+00
57	TAF020136	90.7659	91.3976	91.0495	1.7066e-01	1.9003e+00
58	EMPTY	42.5851	43.5000	43.0099	2.4704e-01	1.9012e+00
59	TAF130312	122.1742	122.9905	122.4473	1.6169e-01	1.9019e+00
60	EMPTY	1.3330	1.3379	1.3331	6.9754e-04	0.0000e+00
61	EMPTY	1.3379	1.3428	1.3422	1.6172e-03	0.0000e+00
62	EMPTY	1.3477	1.3525	1.3495	2.4037e-03	0.0000e+00
63	EMPTY	1.3574	1.3672	1.3616	2.4414e-03	0.0000e+00
64	EMPTY	0.7080	0.7129	0.7089	1.9103e-03	0.0000e+00
65	EMPTY	0.7275	0.7324	0.7276	6.9754e-04	0.0000e+00
66	EMPTY	0.7373	0.7471	0.7420	1.3951e-03	0.0000e+00
67	EMPTY	0.7568	0.7617	0.7571	1.1827e-03	0.0000e+00
68	EMPTY	0.7666	0.7715	0.7689	2.4621e-03	0.0000e+00
69	EMPTY	0.7861	0.7910	0.7862	6.9754e-04	0.0000e+00
70	EMPTY	0.7959	0.8057	0.7999	2.3740e-03	0.0000e+00
71	EMPTY	0.8203	0.8252	0.8207	1.3508e-03	0.0000e+00
72	EMPTY	0.8252	0.8350	0.8338	2.3440e-03	0.0000e+00
73	EMPTY	0.8496	0.8545	0.8498	9.7615e-04	0.0000e+00
74	EMPTY	0.8594	0.8643	0.8639	1.3508e-03	0.0000e+00
75	EMPTY	0.8789	0.8789	0.8789	0.0000e+00	0.0000e+00
76	EMPTY	0.8887	0.8984	0.8924	2.3440e-03	0.0000e+00
77	EMPTY	0.9082	0.9131	0.9084	9.7615e-04	0.0000e+00
78	EMPTY	0.9277	0.9326	0.9308	2.3783e-03	0.0000e+00
79	EMPTY	0.9473	0.9570	0.9521	9.9670e-04	0.0000e+00
80	PAN020136	6.9899	7.7528	7.2390	1.6168e-01	8.7019e-01
81	PAN050136	15.9269	16.8425	16.2757	2.2460e-01	1.6805e+00
82	PAN070136	12.8045	13.4911	13.1703	1.5017e-01	8.7062e-01
83	PAN080136	4.4956	4.9533	4.6871	1.1562e-01	8.7008e-01
84	PAN090136	5.2161	5.6738	5.4278	1.0707e-01	8.7011e-01
85	PAN100136	3.7386	4.1200	3.9161	9.5225e-02	8.7006e-01
86	PAN105136	6.0544	6.4359	6.2553	8.7674e-02	8.7014e-01
87	PAN110136	2.4378	2.8956	2.6355	9.4625e-02	8.7002e-01
88	PAN115136	3.3401	3.7978	3.5207	9.6874e-02	8.7004e-01
89	PAN120136	0.1666	0.4718	0.3332	7.4156e-02	8.7000e-01
90	PAN125136	1.2303	1.6118	1.3907	8.9794e-02	8.7001e-01
91	PAN130136	1.3624	1.7439	1.5695	7.9409e-02	8.7001e-01
92	PAN120048	4.8404	5.2218	4.9945	1.0270e-01	8.7009e-01
93	PAN130048	3.4216	3.8031	3.6069	1.1122e-01	8.7005e-01
94	PAN120224	3.9484	4.4062	4.1789	9.9096e-02	8.7006e-01
95	PAN130224	3.3337	3.7151	3.5189	1.0212e-01	8.7004e-01
96	PAN120312	4.7539	5.2117	4.9999	1.2961e-01	8.7009e-01
97	PAN130312	2.8803	3.3381	3.1232	9.0371e-02	8.7004e-01
98	PAB000136	39.8241	40.0530	39.9315	5.3311e-02	5.8853e-01
99	PAB100136	37.9393	38.1224	38.0318	4.4313e-02	5.8774e-01
100	PAB125136	37.5177	37.6550	37.5850	3.9756e-02	5.8756e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4904	39.8567	39.6499	9.3910e-02	7.5652e-01
102	PRV000001	16.0202	16.1422	16.0251	2.4404e-02	7.5107e-01
103	PSR000001	36.8027	36.9247	36.8052	1.7439e-02	7.5562e-01
104	PFM000001	30.3849	31.1173	30.6689	1.7949e-01	5.0584e-01
105	PAN000136	65.4345	70.4699	67.6299	1.2431e+00	4.9229e+00
106	PFM000002	27.5718	27.5718	27.5718	7.7085e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9754e-04	0.0000e+00
108	EMPTY	-8.4277	-6.7480	-7.5027	4.5373e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0042	1.7263e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9754e-04	0.0000e+00
112	VPW000001	101.5325	102.3137	101.8035	1.6349e-01	1.0145e+00
113	VPW000002	118.7387	119.1293	118.9221	1.0092e-01	1.0795e+00
114	VPW000003	146.6346	147.2206	146.7941	1.4193e-01	1.1966e+00
115	VPW000004	104.6349	105.0255	104.8382	7.9328e-02	1.0256e+00
116	VPW000005	138.9423	139.5282	139.1974	1.2735e-01	1.1635e+00
117	VPW000006	145.3463	145.9322	145.6412	1.3881e-01	1.1915e+00
118	IPW000001	551.5372	557.3943	554.4062	1.3279e+00	9.2083e+00
119	IPW000002	1302.9977	1306.9001	1305.3070	1.4179e+00	1.3113e+01
120	IPW000003	1317.9375	1321.8375	1320.3646	1.2288e+00	1.3207e+01
121	IPW000004	374.7935	375.7700	375.4011	3.3845e-01	3.5770e+00
122	IPW000005	253.9841	255.4488	254.6319	3.2120e-01	2.8366e+00
123	IPW000006	266.7236	267.7002	267.0923	3.0770e-01	2.9073e+00
124	EMPTY	-0.0342	-0.0146	-0.0245	4.0474e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0159	2.9526e-03	0.0000e+00
126	EMPTY	-0.0293	-0.0146	-0.0212	3.2375e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.8681e-03	0.0000e+00
128	IHT000001	131.2312	133.7703	132.1959	6.2962e-01	4.3079e+00
129	IHT000002	130.6265	133.3609	131.6389	6.2489e-01	4.3061e+00
130	IHT000003	129.3081	131.8472	130.4043	6.2634e-01	4.3024e+00
131	IHT000004	131.4941	134.2285	132.8175	6.6624e-01	4.3098e+00
132	IHT000005	129.8340	132.1777	131.0098	5.9867e-01	4.3042e+00
133	IHT000006	125.7812	127.9297	126.7857	5.5957e-01	4.2916e+00
134	IHT000007	131.9524	134.1008	133.0963	5.3489e-01	4.3106e+00
135	IHT000008	130.8105	132.9590	131.8907	5.4388e-01	4.3069e+00
136	IHT000009	130.4612	132.6097	131.4697	5.2035e-01	4.3056e+00
137	IHT000010	130.1157	132.8501	131.4311	5.9104e-01	4.3055e+00
138	IHT000011	131.0209	134.1459	132.6432	5.6128e-01	4.3092e+00
139	IHT000012	129.7964	133.3121	131.8093	5.8757e-01	4.3067e+00
140	IHT000013	91.5978	94.5275	93.2321	5.3887e-01	4.2047e+00
141	IHT000014	127.0771	130.2021	128.9027	5.7159e-01	4.2979e+00
142	IHT000015	94.5237	96.8675	95.9467	5.3340e-01	4.2108e+00
143	IHT000016	88.4766	90.8203	89.9314	5.3200e-01	4.1975e+00
144	IHT000017	104.4659	106.8097	105.7214	5.3340e-01	4.2341e+00
145	IHT000018	106.9787	109.1271	107.9911	5.2084e-01	4.2398e+00
146	IHT000019	107.2454	109.3938	108.3096	5.0439e-01	4.2406e+00
147	IHT000020	105.9946	107.9477	106.9353	5.1161e-01	4.2372e+00
148	IHT000021	-3.2114	-0.6723	-1.8522	6.0981e-01	4.1000e+00
149	IHT000022	92.5556	95.0947	93.4804	5.2707e-01	4.2052e+00
150	IHT000023	105.2133	107.3618	106.1022	4.5642e-01	4.2351e+00
151	IHT000024	70.3576	72.7013	71.3142	4.6364e-01	4.1616e+00
152	IHT000025	102.4114	104.5598	103.2444	4.6284e-01	4.2280e+00
153	IHT000026	104.8941	107.4332	105.9583	4.5467e-01	4.2347e+00
154	IHT000027	90.0053	92.5443	90.8304	5.3972e-01	4.1994e+00
155	IHT000028	90.2231	93.1528	91.7378	6.9114e-01	4.2014e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4425	108.3722	106.8893	6.7649e-01	4.2370e+00
157	IHT000030	108.1318	110.8661	109.3794	6.7047e-01	4.2434e+00
158	IHT000031	106.2124	108.5562	107.3883	6.1826e-01	4.2383e+00
159	IHT000032	107.2341	109.5778	108.3342	5.8416e-01	4.2407e+00
160	IHT000033	107.2266	109.3750	108.2589	5.6663e-01	4.2405e+00
161	IHT000034	93.9153	96.4543	95.1190	5.2943e-01	4.2089e+00
162	IHT000035	124.1211	126.0742	125.1335	5.0220e-01	4.2867e+00
163	IHT000036	92.5894	94.9332	93.8290	5.0516e-01	4.2060e+00

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Velocity 1 = 0.019900 (ft/sec)

Velocity 2 = 0.000100 (ft/sec)

Pressure Drop = 0.049500 (psi)

Tsat in = 0.254578 (deg F) Tsat out = 0.318817 (deg F)

Phi inner = 0.759102 (kBtu/hr-ft2) Phi outer = 0.845299 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0403	0.0546
1	TRF000002	0.0375	0.0505
2	TFM000001	0.1226	0.1440
3	TIN000001	0.1784	0.2090
4	TRV000001	0.1023	0.1194
5	TSR000001	2.1378	1.7972
6	EMPTY	0.0547	0.1425
7	TAO050136	2.1629	1.5761
8	TAO070136	0.2460	0.1855
9	TAO080136	0.2847	0.2123
10	TAO090136	2.5082	1.6310
11	TAO100136	0.3477	0.2513
12	TAO105136	0.2116	0.1518
13	EMPTY	0.0000	0.0000
14	TAO115136	0.2991	0.2039
15	EMPTY	0.0644	0.1712
16	TAO125136	0.3846	0.2579
17	EMPTY	0.0439	0.0971
18	EMPTY	0.0073	0.0176
19	TAO130048	0.4640	0.3324
20	TAO120224	0.3079	0.2161
21	EMPTY	0.0159	0.0405
22	TAO120312	0.2803	0.1920
23	TAO130312	0.2868	0.2036
24	EMPTY	0.0485	0.1234
25	TRT070000	0.3387	0.2544
26	TRT100000	0.4315	0.3019
27	TRT120000	0.4380	0.3050
28	TRT125000	0.4508	0.3094
29	EMPTY	0.0183	0.0459
30	EMPTY	0.0414	0.1044
31	TAF050136	0.2762	0.2756
32	TAF070136	0.2789	0.2660
33	TAF080136	0.2509	0.2352
34	TAF090136	0.2779	0.2552
35	TAF100136	0.2958	0.2641
36	TAF105136	0.1948	0.1708
37	TAF110136	0.2284	0.1964
38	TAF115136	0.2372	0.2009
39	TAF120136	0.2872	0.2403
40	TAF125136	0.3774	0.3117
41	TAF130136	0.3357	0.2746
42	TAF120048	0.4071	0.3409
43	TAF130048	0.4375	0.3615
44	TAF120224	0.2700	0.2270
45	TAF130224	0.3359	0.2773

#	Name	Abs Diff	%Diff
46	EMPTY	0.1267	0.3334
47	EMPTY	0.1200	0.3058
48	TAI130048	0.5230	0.3536
49	TAI130136	0.3599	0.2437
50	TAI130224	1.5856	1.4575
51	TAI130312	1.1439	0.9487
52	TRR130000	2.7178	2.6067
53	TSI000001	0.1329	0.3213
54	TSI000002	0.5860	0.6788
55	TSO000001	0.0770	0.1901
56	TSO000002	0.0954	0.2027
57	TAF020136	0.2557	0.2800
58	EMPTY	0.1791	0.4147
59	TAF130312	0.2979	0.2427
60	EMPTY	0.0078	0.5817
61	EMPTY	0.0064	0.4746
62	EMPTY	0.0077	0.5674
63	EMPTY	0.0058	0.4242
64	EMPTY	0.0030	0.4214
65	EMPTY	0.0002	0.0275
66	EMPTY	0.0005	0.0673
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0026	0.3370
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0009	0.1124
71	EMPTY	0.0007	0.0852
72	EMPTY	0.0012	0.1437
73	EMPTY	0.0003	0.0353
74	EMPTY	0.0004	0.0463
75	EMPTY	0.0002	0.0228
76	EMPTY	0.0009	0.1007
77	EMPTY	0.0009	0.0990
78	EMPTY	0.0014	0.1502
79	EMPTY	0.0002	0.0210
80	PAN020136	0.4581	6.7557
81	PAN050136	0.0558	0.3440
82	PAN070136	0.1904	1.4669
83	PAN080136	0.0832	1.8072
84	PAN090136	0.1614	3.0647
85	PAN100136	0.1440	3.8175
86	PAN105136	0.3260	5.4981
87	PAN110136	0.2402	8.3528
88	PAN115136	0.1165	3.4222
89	PAN120136	0.0303	8.3356
90	PAN125136	0.0963	7.4397
91	PAN130136	0.0164	1.0560
92	PAN120048	0.0809	1.6465
93	PAN130048	0.1197	3.4326
94	PAN120224	0.0472	1.1169
95	PAN130224	0.0983	2.8738
96	PAN120312	0.0141	0.2828
97	PAN130312	0.1102	3.6575
98	PAB000136	0.1709	0.4262
99	PAB100136	0.2106	0.5507
100	PAB125136	0.2028	0.5367

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2385	0.5979
102	PRV000001	0.4932	3.1754
103	PSR000001	0.2758	0.7438
104	PFM000001	0.0881	0.2881
105	PAN000136	1.3714	2.0698
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	4.1667
108	EMPTY	0.1991	2.7261
109	EMPTY	0.0035	500.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	200.0000
112	VPW000001	0.0797	0.0783
113	VPW000002	0.0935	0.0787
114	VPW000003	0.1438	0.0981
115	VPW000004	0.0861	0.0822
116	VPW000005	0.1457	0.1048
117	VPW000006	0.1114	0.0766
118	IPW000001	9.9775	1.7679
119	IPW000002	30.0170	2.3537
120	IPW000003	9.4474	0.7207
121	IPW000004	4.3042	1.1336
122	IPW000005	0.5208	0.2049
123	IPW000006	1.1304	0.4250
124	EMPTY	0.0011	4.7009
125	EMPTY	0.0002	1.2739
126	EMPTY	0.0002	0.9524
127	EMPTY	0.0013	7.1823
128	IHT000001	0.0745	0.0563
129	IHT000002	0.0266	0.0202
130	IHT000003	0.0093	0.0071
131	IHT000004	0.0165	0.0124
132	IHT000005	0.0078	0.0060
133	IHT000006	0.1256	0.0992
134	IHT000007	0.2104	0.1583
135	IHT000008	0.3184	0.2420
136	IHT000009	0.2350	0.1791
137	IHT000010	0.1416	0.1076
138	IHT000011	0.1317	0.0992
139	IHT000012	0.0223	0.0169
140	IHT000013	0.0796	0.0855
141	IHT000014	0.2006	0.1559
142	IHT000015	0.1847	0.1929
143	IHT000016	0.1306	0.1454
144	IHT000017	0.3616	0.3409
145	IHT000018	0.0188	0.0174
146	IHT000019	0.0060	0.0055
147	IHT000020	0.0149	0.0139
148	IHT000021	0.1291	7.4923
149	IHT000022	0.0987	0.1055
150	IHT000023	0.0291	0.0274
151	IHT000024	0.0200	0.0280
152	IHT000025	0.0380	0.0368
153	IHT000026	0.0100	0.0094
154	IHT000027	0.0577	0.0635
155	IHT000028	0.0713	0.0777

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0414	0.0387
157	IHT000030	0.0610	0.0557
158	IHT000031	0.0429	0.0399
159	IHT000032	0.0014	0.0013
160	IHT000033	0.0145	0.0134
161	IHT000034	0.0006	0.0006
162	IHT000035	0.0671	0.0537
163	IHT000036	0.0482	0.0514

Velocity 1 = 7.9900 (ft/sec) (+/- 4.3045 %)
 Velocity 2 = 8.0074 (ft/sec) (+/- 3.5889 %)
 Pressure drop = -2.7509 (psi)
 Tsat in = 267.6122 (deg F) Tsat out = 271.4437 (deg F)
 Phi inner = 100.8490 (kBtu/hr-ft2) (+/- 1.5692 %)
 Phi outer = 100.5888 (kBtu/hr-ft2) (+/- 1.5521 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	73.5396	74.1780	73.8461	1.6742e-01	1.9000e+00
1	TFF0000002	74.0875	74.5108	74.2991	1.2096e-01	1.9000e+00
2	TFM0000001	85.7917	86.5263	86.1362	1.8112e-01	1.9002e+00
3	TIN0000001	85.8881	86.5187	86.2540	1.4124e-01	1.9002e+00
4	TRV0000001	85.8021	87.0585	86.3886	3.1385e-01	1.9002e+00
5	TSR0000001	123.2552	124.3732	123.8529	2.8705e-01	1.9020e+00
6	EMPTY	37.9974	38.6870	38.4296	2.3050e-01	1.9010e+00
7	TAO050136	161.7492	162.6394	162.1923	1.7557e-01	1.9057e+00
8	TAO070136	160.2690	161.1649	160.6915	1.9450e-01	1.9055e+00
9	TAO080136	161.7565	162.5470	162.1237	1.7185e-01	1.9057e+00
10	TAO090136	200.8961	201.5700	201.1965	1.7572e-01	1.9116e+00
11	TAO100136	170.7071	171.2982	171.0262	1.3277e-01	1.9069e+00
12	TAO105136	171.5249	172.7051	172.0916	2.8069e-01	1.9070e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	182.8669	183.7483	183.3135	2.1138e-01	1.9086e+00
15	EMPTY	32.2314	41.6693	37.6404	2.3396e+00	1.9010e+00
16	TAO125136	188.1183	188.7015	188.4100	1.6414e-01	1.9094e+00
17	EMPTY	44.8706	45.5552	45.2129	1.8004e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5502	1.1561e-01	1.9012e+00
19	TAO130048	174.5334	175.3176	174.7927	1.6189e-01	1.9074e+00
20	TAO120224	179.1730	179.8584	179.4472	1.6428e-01	1.9081e+00
21	EMPTY	38.9168	39.6057	39.2521	1.4079e-01	1.9010e+00
22	TAO120312	183.2018	184.2763	183.7213	2.6361e-01	1.9087e+00
23	TAO130312	176.4630	177.1486	176.7372	1.4812e-01	1.9077e+00
24	EMPTY	38.9168	39.6057	39.3210	1.7082e-01	1.9010e+00
25	TRT070000	164.4550	165.4483	164.9077	1.9584e-01	1.9061e+00
26	TRT100000	176.7867	177.5703	177.1905	2.0903e-01	1.9077e+00
27	TRT120000	180.8095	181.5913	181.2397	1.8418e-01	1.9083e+00
28	TRT125000	182.6415	183.4205	183.0739	1.9265e-01	1.9086e+00
29	EMPTY	39.8352	40.0646	39.8903	9.8996e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6286	2.1875e-01	1.9011e+00
31	TAF050136	111.1059	112.4392	111.7631	3.1175e-01	1.9012e+00
32	TAF070136	118.9765	120.1976	119.6605	2.7354e-01	1.9017e+00
33	TAF080136	122.6893	123.6024	123.1560	2.0176e-01	1.9019e+00
34	TAF090136	126.3126	127.4304	126.8817	2.7468e-01	1.9022e+00
35	TAF100136	132.0111	132.7213	132.3641	1.6801e-01	1.9026e+00
36	TAF105136	135.5532	136.5555	136.0467	2.6499e-01	1.9029e+00
37	TAF110136	139.2101	140.1134	139.7359	1.8979e-01	1.9033e+00
38	TAF115136	142.2592	143.0616	142.7046	2.0794e-01	1.9036e+00
39	TAF120136	144.9338	145.6353	145.2666	1.7333e-01	1.9038e+00
40	TAF125136	147.4233	148.5205	148.0415	2.4133e-01	1.9041e+00
41	TAF130136	150.0013	150.6010	150.2813	1.4399e-01	1.9043e+00
42	TAF120048	144.7797	145.6890	145.2283	2.5878e-01	1.9038e+00
43	TAF130048	148.0984	148.8993	148.4348	1.9260e-01	1.9041e+00
44	TAF120224	144.3849	145.0870	144.7542	2.0501e-01	1.9038e+00
45	TAF130224	148.9110	149.6139	149.2047	1.8454e-01	1.9042e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9560	1.9539e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3623	1.0790e-01	1.9010e+00
48	TAI130048	185.0504	185.6357	185.3157	1.3073e-01	1.9089e+00
49	TAI130136	185.5278	186.1122	185.8123	1.3597e-01	1.9090e+00
50	TAI130224	185.3237	186.0066	185.6710	1.6036e-01	1.9090e+00
51	TAI130312	183.9290	184.5150	184.2296	1.4470e-01	1.9088e+00
52	TRR130000	109.9264	112.4907	111.5146	4.8613e-01	1.9012e+00
53	TSI000001	41.3571	42.4449	41.9666	1.9039e-01	1.9005e+00
54	TSI000002	86.7532	88.2202	87.6083	3.6899e-01	1.9002e+00
55	TSO000001	40.2078	41.1924	40.7637	1.9631e-01	1.9006e+00
56	TSO000002	48.8041	49.7782	49.2891	2.1013e-01	1.9003e+00
57	TAF020136	96.1263	97.3816	96.7752	2.5982e-01	1.9005e+00
58	EMPTY	42.8139	43.5000	43.1524	2.5824e-01	1.9013e+00
59	TAF130312	151.3862	152.4828	151.9243	2.2511e-01	1.9045e+00
60	EMPTY	2.0361	2.0459	2.0413	2.4976e-03	0.0000e+00
61	EMPTY	2.0410	2.0459	2.0445	2.2146e-03	0.0000e+00
62	EMPTY	2.0459	2.0508	2.0477	2.3675e-03	0.0000e+00
63	EMPTY	2.0557	2.0605	2.0561	1.3381e-03	0.0000e+00
64	EMPTY	1.0107	1.0156	1.0146	1.9730e-03	0.0000e+00
65	EMPTY	1.0303	1.0352	1.0304	6.9053e-04	0.0000e+00
66	EMPTY	1.0400	1.0449	1.0438	2.0432e-03	0.0000e+00
67	EMPTY	1.0547	1.0596	1.0573	2.4583e-03	0.0000e+00
68	EMPTY	1.0645	1.0693	1.0680	2.2146e-03	0.0000e+00
69	EMPTY	1.0791	1.0840	1.0826	2.2146e-03	0.0000e+00
70	EMPTY	1.0938	1.0986	1.0938	6.9053e-04	0.0000e+00
71	EMPTY	1.1084	1.1182	1.1142	2.1364e-03	0.0000e+00
72	EMPTY	1.1230	1.1279	1.1251	2.4344e-03	0.0000e+00
73	EMPTY	1.1377	1.1426	1.1402	2.4642e-03	0.0000e+00
74	EMPTY	1.1523	1.1523	1.1523	0.0000e+00	0.0000e+00
75	EMPTY	1.1621	1.1670	1.1667	1.1714e-03	0.0000e+00
76	EMPTY	1.1768	1.1768	1.1768	0.0000e+00	0.0000e+00
77	EMPTY	1.1914	1.1963	1.1931	2.3365e-03	0.0000e+00
78	EMPTY	1.2109	1.2158	1.2120	2.0432e-03	0.0000e+00
79	EMPTY	1.2305	1.2354	1.2344	1.9730e-03	0.0000e+00
80	PAN020136	-10.0999	-9.5659	-9.8283	1.0697e-01	8.7035e-01
81	PAN050136	-18.8631	-18.2528	-18.5366	1.6888e-01	1.6806e+00
82	PAN070136	-11.4570	-10.9993	-11.2083	1.1307e-01	8.7045e-01
83	PAN080136	-6.4908	-6.0330	-6.2558	9.6061e-02	8.7014e-01
84	PAN090136	-6.6095	-6.3043	-6.4767	6.6850e-02	8.7015e-01
85	PAN100136	-6.3322	-6.1034	-6.2209	7.7392e-02	8.7014e-01
86	PAN105136	-2.2616	-1.9565	-2.1350	6.4682e-02	8.7002e-01
87	PAN110136	-2.7502	-2.5213	-2.6510	5.6107e-02	8.7003e-01
88	PAN115136	-3.0686	-2.8397	-2.9771	7.7069e-02	8.7003e-01
89	PAN120136	-3.6481	-3.3429	-3.5107	7.7069e-02	8.7004e-01
90	PAN125136	-3.7288	-3.4999	-3.6037	5.2858e-02	8.7005e-01
91	PAN130136	-3.5204	-3.2915	-3.4258	6.6404e-02	8.7004e-01
92	PAN120048	-6.0697	-5.6882	-5.8988	8.2373e-02	8.7012e-01
93	PAN130048	-6.8781	-6.4966	-6.7285	8.9824e-02	8.7016e-01
94	PAN120224	-6.4276	-6.1224	-6.2979	8.3362e-02	8.7014e-01
95	PAN130224	-6.8897	-6.5083	-6.6975	8.1910e-02	8.7016e-01
96	PAN120312	-6.3850	-6.1561	-6.2904	5.6759e-02	8.7014e-01
97	PAN130312	-7.0379	-6.6564	-6.8518	8.4649e-02	8.7017e-01
98	PAB000136	40.0530	40.2819	40.1638	4.8135e-02	5.8863e-01
99	PAB100136	42.1507	42.2881	42.2130	4.2138e-02	5.8952e-01
100	PAB125136	42.7820	42.8735	42.8177	3.3715e-02	5.8980e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8567	40.2229	40.0325	1.1869e-01	7.5665e-01
102	PRV000001	15.7760	15.8981	15.8883	3.3453e-02	7.5105e-01
103	PSR000001	42.7841	43.0283	42.9038	3.8916e-02	7.5763e-01
104	PFM000001	9.6940	10.0602	9.8203	1.0445e-01	5.0060e-01
105	PAN000136	-77.8455	-74.1834	-76.1609	9.3146e-01	4.9237e+00
106	PFM000002	9.7181	9.9866	9.8637	6.5335e-02	2.0151e-01
107	EMPTY	-0.0049	0.0049	-0.0002	4.4072e-03	0.0000e+00
108	EMPTY	-6.9580	-4.5996	-6.3448	5.9807e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0001	2.6998e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	101.7278	102.1184	101.9270	1.0799e-01	1.0149e+00
113	VPW000002	118.9340	119.3247	119.1020	1.1168e-01	1.0802e+00
114	VPW000003	146.8299	147.4159	147.1112	1.3182e-01	1.1980e+00
115	VPW000004	104.8302	105.2208	104.9787	1.2200e-01	1.0261e+00
116	VPW000005	139.1376	139.5282	139.3720	1.3087e-01	1.1642e+00
117	VPW000006	145.7369	146.1275	145.9322	1.2478e-01	1.1928e+00
118	IPW000001	533.9662	547.6326	542.8688	3.4195e+00	9.1653e+00
119	IPW000002	1308.8514	1316.6565	1312.4031	2.1480e+00	1.3157e+01
120	IPW000003	1327.6875	1337.4375	1332.4845	2.4982e+00	1.3282e+01
121	IPW000004	374.3052	378.2114	376.5022	8.9465e-01	3.5843e+00
122	IPW000005	253.9841	255.4488	254.7947	3.7702e-01	2.8375e+00
123	IPW000006	266.7236	268.6768	267.8271	5.2022e-01	2.9115e+00
124	EMPTY	-0.0293	-0.0146	-0.0219	3.9754e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0144	3.0261e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0187	4.2647e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.3829e-03	0.0000e+00
128	IHT000001	131.2312	133.3797	132.2196	5.0287e-01	4.3079e+00
129	IHT000002	130.6265	132.5796	131.6069	4.4027e-01	4.3060e+00
130	IHT000003	129.3081	131.2613	130.3745	4.9001e-01	4.3023e+00
131	IHT000004	131.6895	133.8379	132.7598	5.3994e-01	4.3096e+00
132	IHT000005	130.0293	131.9824	130.9512	4.7848e-01	4.3040e+00
133	IHT000006	125.5859	127.9297	126.6719	5.1924e-01	4.2912e+00
134	IHT000007	131.9524	134.1008	132.9718	5.1944e-01	4.3102e+00
135	IHT000008	130.6152	133.1543	131.7480	5.6082e-01	4.3065e+00
136	IHT000009	130.0706	133.0003	131.3949	5.2688e-01	4.3054e+00
137	IHT000010	130.5063	133.0454	131.4516	6.1683e-01	4.3056e+00
138	IHT000011	131.8021	133.9506	132.6538	5.1260e-01	4.3093e+00
139	IHT000012	130.5777	132.9214	131.7886	5.2497e-01	4.3066e+00
140	IHT000013	91.7931	93.9416	93.0666	5.1029e-01	4.2043e+00
141	IHT000014	127.4677	129.6161	128.6943	4.8334e-01	4.2972e+00
142	IHT000015	94.9143	96.6722	95.7190	4.9385e-01	4.2103e+00
143	IHT000016	88.8672	90.6250	89.7187	4.5636e-01	4.1970e+00
144	IHT000017	103.8800	107.7862	106.0127	9.1935e-01	4.2348e+00
145	IHT000018	106.7834	109.3224	107.8888	6.1334e-01	4.2396e+00
146	IHT000019	107.2454	109.3938	108.2297	5.1291e-01	4.2404e+00
147	IHT000020	105.7993	108.3383	106.8305	5.3239e-01	4.2369e+00
148	IHT000021	-3.0161	0.1089	-1.8051	6.6615e-01	4.1000e+00
149	IHT000022	92.3603	95.2900	93.4345	5.8427e-01	4.2051e+00
150	IHT000023	105.2133	107.7524	106.0884	5.4568e-01	4.2350e+00
151	IHT000024	70.5529	72.7013	71.2756	5.3706e-01	4.1615e+00
152	IHT000025	102.4114	104.7551	103.2824	5.7074e-01	4.2281e+00
153	IHT000026	105.0894	107.4332	105.9995	5.9662e-01	4.2348e+00
154	IHT000027	89.8100	92.3490	90.7983	6.2192e-01	4.1993e+00
155	IHT000028	90.4184	93.3481	91.7505	6.6109e-01	4.2014e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6378	108.7628	106.9698	6.9887e-01	4.2372e+00
157	IHT000030	108.3271	111.0615	109.4873	6.3185e-01	4.2437e+00
158	IHT000031	106.4077	109.1421	107.4780	6.3777e-01	4.2385e+00
159	IHT000032	107.2341	109.9685	108.4059	6.3992e-01	4.2409e+00
160	IHT000033	107.2266	109.9609	108.3672	6.2560e-01	4.2408e+00
161	IHT000034	94.1106	96.2590	95.0832	5.1371e-01	4.2088e+00
162	IHT000035	123.9258	126.2695	125.0938	5.1219e-01	4.2866e+00
163	IHT000036	92.7847	94.9332	93.7066	4.9448e-01	4.2057e+00

Velocity 1 = 7.9801 (ft/sec) (+/- 4.3084 %)
Velocity 2 = 7.9925 (ft/sec) (+/- 3.5899 %)
Pressure drop = -2.7635 (psi)
Tsats in = 267.6655 (deg F) Tsats out = 271.5116 (deg F)
Phi inner = 99.0190 (kBtu/hr-ft2) (+/- 1.5738 %)
Phi outer = 100.3389 (kBtu/hr-ft2) (+/- 1.5515 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.5396	74.1780	73.9218	1.8420e-01	1.9000e+00
1	TRF000002	74.0875	74.5108	74.3207	1.3138e-01	1.9000e+00
2	TFM000001	86.0018	87.1552	86.6458	2.3539e-01	1.9002e+00
3	TIN000001	86.3086	87.0444	86.7162	1.7244e-01	1.9002e+00
4	TRV000001	85.3833	86.3256	85.8861	2.6875e-01	1.9002e+00
5	TSR000001	128.7293	130.1455	129.2595	2.7383e-01	1.9024e+00
6	EMPTY	37.9974	38.9168	38.4384	2.3380e-01	1.9010e+00
7	TAO050136	164.6084	165.5934	165.0360	1.8521e-01	1.9061e+00
8	TAO070136	160.6686	161.5634	161.0865	2.0905e-01	1.9056e+00
9	TAO080136	162.2481	162.9407	162.6158	1.8153e-01	1.9058e+00
10	TAO090136	196.3664	197.1393	196.7114	2.0960e-01	1.9108e+00
11	TAO100136	171.5925	172.3793	171.9116	1.8351e-01	1.9070e+00
12	TAO105136	173.0000	174.2774	173.7959	2.4988e-01	1.9072e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	183.5526	184.4332	184.0121	2.4224e-01	1.9087e+00
15	EMPTY	31.7686	40.9819	36.3032	2.5327e+00	1.9009e+00
16	TAO125136	188.7965	189.3790	189.0837	1.5724e-01	1.9095e+00
17	EMPTY	44.8706	45.5552	45.2199	1.4805e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5992	1.1647e-01	1.9012e+00
19	TAO130048	175.4130	176.1968	175.8150	1.9716e-01	1.9075e+00
20	TAO120224	179.4668	180.4451	180.0717	2.1386e-01	1.9081e+00
21	EMPTY	38.9168	39.6057	39.2402	1.3998e-01	1.9010e+00
22	TAO120312	183.7875	184.9595	184.3558	2.3971e-01	1.9088e+00
23	TAO130312	177.0496	177.8327	177.4471	1.6413e-01	1.9078e+00
24	EMPTY	39.1464	39.8352	39.3901	1.9554e-01	1.9010e+00
25	TRT070000	166.1461	166.9406	166.5745	2.1552e-01	1.9063e+00
26	TRT100000	178.8405	179.9158	179.2596	2.1955e-01	1.9080e+00
27	TRT120000	182.0793	182.9576	182.4837	1.9630e-01	1.9085e+00
28	TRT125000	183.9027	184.8741	184.3290	2.0980e-01	1.9088e+00
29	EMPTY	39.6057	40.0646	39.9382	1.2447e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6525	2.2944e-01	1.9011e+00
31	TAF050136	111.6184	112.9530	112.3478	3.0006e-01	1.9012e+00
32	TAF070136	119.4839	120.9090	120.1705	2.9513e-01	1.9017e+00
33	TAF080136	123.0936	124.1092	123.6387	2.3954e-01	1.9019e+00
34	TAF090136	126.6175	128.0399	127.4117	3.1080e-01	1.9022e+00
35	TAF100136	132.5181	133.4306	132.9983	2.0462e-01	1.9027e+00
36	TAF105136	135.9529	137.0562	136.6268	2.6621e-01	1.9030e+00
37	TAF110136	139.9107	141.0153	140.3459	2.2116e-01	1.9033e+00
38	TAF115136	142.8605	143.8636	143.3865	2.2944e-01	1.9036e+00
39	TAF120136	145.7315	146.3320	145.9980	1.5376e-01	1.9039e+00
40	TAF125136	148.2220	149.3148	148.7437	2.6929e-01	1.9042e+00
41	TAF130136	150.5991	151.2983	151.0272	1.7166e-01	1.9044e+00
42	TAF120048	145.5889	146.8999	146.2365	3.1929e-01	1.9039e+00
43	TAF130048	148.9986	149.8984	149.4698	2.1311e-01	1.9042e+00
44	TAF120224	144.7856	145.8883	145.3504	2.1817e-01	1.9038e+00
45	TAF130224	149.3131	150.2171	149.8318	2.1312e-01	1.9043e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9880	2.2975e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.4229	1.2381e-01	1.9010e+00
48	TAI130048	186.1216	186.7065	186.4579	1.7574e-01	1.9091e+00
49	TAI130136	186.4013	187.0817	186.6935	1.7417e-01	1.9092e+00
50	TAI130224	186.1045	186.7874	186.4392	1.5550e-01	1.9091e+00
51	TAI130312	184.7100	185.3930	185.1282	1.6781e-01	1.9089e+00
52	TRR130000	108.2831	111.7741	109.8933	6.7927e-01	1.9011e+00
53	TSI000001	41.1397	42.1197	41.5978	2.0849e-01	1.9005e+00
54	TSI000002	85.3924	87.8018	86.5234	5.0068e-01	1.9002e+00
55	TSO000001	39.9879	40.8635	40.4014	2.1449e-01	1.9006e+00
56	TSO000002	48.4790	49.2375	48.8948	1.9329e-01	1.9003e+00
57	TAF020136	96.8592	97.9056	97.3421	2.5066e-01	1.9005e+00
58	EMPTY	42.8139	43.7285	43.2293	2.5852e-01	1.9013e+00
59	TAF130312	151.8838	153.1795	152.6447	2.5866e-01	1.9046e+00
60	EMPTY	2.0508	2.0605	2.0573	2.5191e-03	0.0000e+00
61	EMPTY	2.0557	2.0654	2.0605	1.7263e-03	0.0000e+00
62	EMPTY	2.0605	2.0654	2.0640	2.2287e-03	0.0000e+00
63	EMPTY	2.0654	2.0752	2.0708	1.7954e-03	0.0000e+00
64	EMPTY	1.0205	1.0254	1.0207	9.7615e-04	0.0000e+00
65	EMPTY	1.0352	1.0400	1.0388	2.1215e-03	0.0000e+00
66	EMPTY	1.0498	1.0498	1.0498	0.0000e+00	0.0000e+00
67	EMPTY	1.0645	1.0742	1.0647	1.3951e-03	0.0000e+00
68	EMPTY	1.0742	1.0791	1.0743	6.9754e-04	0.0000e+00
69	EMPTY	1.0889	1.0938	1.0892	1.1827e-03	0.0000e+00
70	EMPTY	1.0986	1.1035	1.1021	2.2287e-03	0.0000e+00
71	EMPTY	1.1182	1.1230	1.1224	1.6172e-03	0.0000e+00
72	EMPTY	1.1279	1.1328	1.1327	6.9754e-04	0.0000e+00
73	EMPTY	1.1475	1.1523	1.1477	9.7615e-04	0.0000e+00
74	EMPTY	1.1572	1.1621	1.1582	1.9883e-03	0.0000e+00
75	EMPTY	1.1719	1.1768	1.1721	9.7615e-04	0.0000e+00
76	EMPTY	1.1816	1.1865	1.1838	2.4538e-03	0.0000e+00
77	EMPTY	1.2012	1.2012	1.2012	0.0000e+00	0.0000e+00
78	EMPTY	1.2158	1.2256	1.2203	1.6787e-03	0.0000e+00
79	EMPTY	1.2402	1.2451	1.2403	6.9754e-04	0.0000e+00
80	PAN020136	-10.0237	-9.4896	-9.7465	1.1412e-01	8.7034e-01
81	PAN050136	-19.0157	-18.2528	-18.5642	1.6761e-01	1.6806e+00
82	PAN070136	-11.4570	-10.9230	-11.2188	1.1405e-01	8.7045e-01
83	PAN080136	-6.4908	-6.1093	-6.2728	1.0212e-01	8.7014e-01
84	PAN090136	-6.6858	-6.2280	-6.4834	8.3214e-02	8.7015e-01
85	PAN100136	-6.4848	-6.1034	-6.2373	8.0215e-02	8.7014e-01
86	PAN105136	-2.2616	-1.8802	-2.0935	8.3836e-02	8.7002e-01
87	PAN110136	-2.7502	-2.5213	-2.6521	6.6072e-02	8.7003e-01
88	PAN115136	-3.1449	-2.8397	-2.9347	7.2262e-02	8.7003e-01
89	PAN120136	-3.5718	-3.3429	-3.5079	5.8988e-02	8.7004e-01
90	PAN125136	-3.8051	-3.4999	-3.5887	6.4863e-02	8.7005e-01
91	PAN130136	-3.5967	-3.2915	-3.4130	6.7737e-02	8.7004e-01
92	PAN120048	-6.0697	-5.6882	-5.8953	8.8097e-02	8.7012e-01
93	PAN130048	-6.8781	-6.4966	-6.7270	7.2194e-02	8.7016e-01
94	PAN120224	-6.4276	-6.1987	-6.3263	6.8572e-02	8.7014e-01
95	PAN130224	-6.8897	-6.5083	-6.7231	7.7357e-02	8.7016e-01
96	PAN120312	-6.3850	-6.0035	-6.2246	8.9794e-02	8.7014e-01
97	PAN130312	-7.0379	-6.7327	-6.8573	6.5508e-02	8.7017e-01
98	PAB000136	40.0530	40.3276	40.1996	6.1967e-02	5.8864e-01
99	PAB100136	42.1965	42.3338	42.2629	4.1852e-02	5.8955e-01
100	PAB125136	42.7820	42.9193	42.8661	4.2149e-02	5.8982e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8567	40.2229	40.0435	7.9197e-02	7.5665e-01
102	PRV000001	15.5319	15.5319	15.5319	5.7813e-06	7.5100e-01
103	PSR000001	42.7841	43.0283	42.9137	3.8668e-02	7.5763e-01
104	PFM000001	9.6024	9.9686	9.7949	1.0775e-01	5.0060e-01
105	PAN000136	-79.2188	-73.7256	-76.5096	1.0769e+00	4.9237e+00
106	PFM000002	9.7181	9.9362	9.8256	5.7100e-02	2.0150e-01
107	EMPTY	-0.0049	0.0049	-0.0029	3.2934e-03	0.0000e+00
108	EMPTY	-6.7383	-3.7109	-5.3026	8.5358e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0008	2.0780e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0004	1.3508e-03	0.0000e+00
112	VPW000001	100.9465	102.8997	102.2220	4.5823e-01	1.0160e+00
113	VPW000002	118.5434	119.7153	119.0536	2.4839e-01	1.0800e+00
114	VPW000003	146.4393	147.4159	146.9575	2.8901e-01	1.1973e+00
115	VPW000004	104.2443	105.6115	105.0176	3.0089e-01	1.0262e+00
116	VPW000005	138.7470	140.1142	139.4366	3.4087e-01	1.1645e+00
117	VPW000006	144.7604	146.1275	145.5615	3.0164e-01	1.1912e+00
118	IPW000001	559.3466	573.0131	567.7137	3.6525e+00	9.2588e+00
119	IPW000002	1273.7286	1285.4363	1281.1356	3.0329e+00	1.2963e+01
120	IPW000003	1302.3375	1312.0875	1307.8292	2.7483e+00	1.3128e+01
121	IPW000004	377.2349	382.6060	380.3536	1.1091e+00	3.6095e+00
122	IPW000005	252.0312	255.9371	254.3529	7.6894e-01	2.8351e+00
123	IPW000006	263.7939	267.2119	265.4980	7.4668e-01	2.8981e+00
124	EMPTY	-0.0293	-0.0146	-0.0228	3.6469e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0152	3.2500e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0188	3.7293e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0184	3.3453e-03	0.0000e+00
128	IHT000001	130.6453	133.5750	132.0803	6.1705e-01	4.3075e+00
129	IHT000002	130.2359	132.7749	131.4675	6.1402e-01	4.3056e+00
130	IHT000003	129.1128	131.6519	130.2448	6.5629e-01	4.3019e+00
131	IHT000004	131.2988	134.0332	132.5943	6.9133e-01	4.3091e+00
132	IHT000005	129.6387	132.1777	130.8504	6.9051e-01	4.3037e+00
133	IHT000006	125.1953	127.9297	126.4947	6.9689e-01	4.2907e+00
134	IHT000007	131.5618	134.2961	132.7495	6.7874e-01	4.3096e+00
135	IHT000008	130.4199	133.1543	131.5280	6.9213e-01	4.3058e+00
136	IHT000009	130.0706	132.6097	131.1708	6.5351e-01	4.3047e+00
137	IHT000010	130.3110	132.4594	131.3992	5.1366e-01	4.3054e+00
138	IHT000011	131.4115	133.3646	132.3164	5.0381e-01	4.3082e+00
139	IHT000012	130.3824	132.7261	131.4267	5.3866e-01	4.3055e+00
140	IHT000013	91.9884	94.3322	93.1005	5.4110e-01	4.2044e+00
141	IHT000014	127.6630	130.0068	128.7711	5.5585e-01	4.2975e+00
142	IHT000015	94.5237	97.0628	95.7713	5.3013e-01	4.2104e+00
143	IHT000016	88.4766	91.4062	90.0590	6.4562e-01	4.1977e+00
144	IHT000017	105.0518	108.1768	106.4867	7.4111e-01	4.2360e+00
145	IHT000018	106.7834	109.3224	108.0668	5.7360e-01	4.2400e+00
146	IHT000019	107.0500	109.5891	108.3175	5.7791e-01	4.2407e+00
147	IHT000020	105.6039	107.9477	106.8396	5.7136e-01	4.2369e+00
148	IHT000021	-3.2114	-0.0864	-1.7087	6.2810e-01	4.1000e+00
149	IHT000022	92.5556	95.2900	93.7873	6.9421e-01	4.2059e+00
150	IHT000023	104.8227	107.1665	106.1142	5.6356e-01	4.2351e+00
151	IHT000024	70.1623	72.5060	71.2664	5.6459e-01	4.1615e+00
152	IHT000025	102.0207	104.3645	103.2763	5.8049e-01	4.2281e+00
153	IHT000026	104.6988	107.2378	105.9384	5.9342e-01	4.2347e+00
154	IHT000027	89.8100	92.5443	91.0895	6.9060e-01	4.2000e+00
155	IHT000028	90.8091	93.7387	92.0886	6.5152e-01	4.2021e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6378	108.1768	106.9930	5.8105e-01	4.2373e+00
157	IHT000030	108.3271	110.8661	109.5269	5.8729e-01	4.2438e+00
158	IHT000031	106.4077	108.5562	107.4959	5.5243e-01	4.2386e+00
159	IHT000032	107.2341	109.7731	108.4378	5.5865e-01	4.2410e+00
160	IHT000033	107.0313	109.7656	108.3984	5.8185e-01	4.2409e+00
161	IHT000034	94.3059	96.4543	95.1668	4.5964e-01	4.2090e+00
162	IHT000035	124.3164	126.2695	125.1455	5.0197e-01	4.2867e+00
163	IHT000036	92.9800	94.7378	93.7613	4.2567e-01	4.2058e+00

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Velocity 1 = 0.009900 (ft/sec)

Velocity 2 = 0.014900 (ft/sec)

Pressure Drop = 0.012600 (psi)

Tsat in = 0.053284 (deg F) Tsat out = 0.067902 (deg F)

Phi inner = 1.830002 (kBtu/hr-ft2) Phi outer = 0.249901 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF0000001	0.0757	0.1025
1	TRF0000002	0.0216	0.0291
2	TFM0000001	0.5096	0.5916
3	TIN0000001	0.4622	0.5359
4	TRV0000001	0.5025	0.5817
5	TSR0000001	5.4066	4.3653
6	EMPTY	0.0088	0.0229
7	TAO050136	2.8437	1.7533
8	TAO070136	0.3950	0.2458
9	TAO080136	0.4921	0.3035
10	TAO090136	4.4851	2.2292
11	TAO100136	0.8854	0.5177
12	TAO105136	1.7043	0.9903
13	EMPTY	0.0000	0.0000
14	TAO115136	0.6986	0.3811
15	EMPTY	1.3372	3.5526
16	TAO125136	0.6737	0.3576
17	EMPTY	0.0070	0.0155
18	EMPTY	0.0490	0.1179
19	TAO130048	1.0223	0.5849
20	TAO120224	0.6245	0.3480
21	EMPTY	0.0119	0.0303
22	TAO120312	0.6345	0.3454
23	TAO130312	0.7099	0.4017
24	EMPTY	0.0691	0.1757
25	TRT070000	1.6668	1.0107
26	TRT100000	2.0691	1.1677
27	TRT120000	1.2440	0.6864
28	TRT125000	1.2551	0.6856
29	EMPTY	0.0479	0.1201
30	EMPTY	0.0239	0.0603
31	TAF050136	0.5847	0.5232
32	TAF070136	0.5100	0.4262
33	TAF080136	0.4827	0.3919
34	TAF090136	0.5300	0.4177
35	TAF100136	0.6342	0.4791
36	TAF105136	0.5801	0.4264
37	TAF110136	0.6100	0.4365
38	TAF115136	0.6819	0.4778
39	TAF120136	0.7314	0.5035
40	TAF125136	0.7022	0.4743
41	TAF130136	0.7459	0.4963
42	TAF120048	1.0082	0.6942
43	TAF130048	1.0350	0.6973
44	TAF120224	0.5962	0.4119
45	TAF130224	0.6271	0.4203

#	Name	Abs Diff	%Diff
46	EMPTY	0.0320	0.0843
47	EMPTY	0.0606	0.1540
48	TAI130048	1.1422	0.6164
49	TAI130136	0.8812	0.4742
50	TAI130224	0.7682	0.4137
51	TAI130312	0.8986	0.4878
52	TRR130000	1.6213	1.4539
53	TSI000001	0.3688	0.8788
54	TSI000002	1.0849	1.2384
55	TSO000001	0.3623	0.8888
56	TSO000002	0.3943	0.8000
57	TAF020136	0.5669	0.5858
58	EMPTY	0.0769	0.1782
59	TAF130312	0.7204	0.4742
60	EMPTY	0.0160	0.7838
61	EMPTY	0.0160	0.7826
62	EMPTY	0.0163	0.7960
63	EMPTY	0.0147	0.7150
64	EMPTY	0.0061	0.6012
65	EMPTY	0.0084	0.8152
66	EMPTY	0.0060	0.5748
67	EMPTY	0.0074	0.6999
68	EMPTY	0.0063	0.5899
69	EMPTY	0.0066	0.6096
70	EMPTY	0.0083	0.7588
71	EMPTY	0.0082	0.7360
72	EMPTY	0.0076	0.6755
73	EMPTY	0.0075	0.6578
74	EMPTY	0.0059	0.5120
75	EMPTY	0.0054	0.4628
76	EMPTY	0.0070	0.5948
77	EMPTY	0.0081	0.6789
78	EMPTY	0.0083	0.6848
79	EMPTY	0.0059	0.4780
80	PAN020136	0.0818	0.8323
81	PAN050136	0.0276	0.1489
82	PAN070136	0.0105	0.0937
83	PAN080136	0.0170	0.2718
84	PAN090136	0.0067	0.1034
85	PAN100136	0.0164	0.2636
86	PAN105136	0.0415	1.9438
87	PAN110136	0.0011	0.0415
88	PAN115136	0.0424	1.4242
89	PAN120136	0.0028	0.0798
90	PAN125136	0.0150	0.4162
91	PAN130136	0.0128	0.3736
92	PAN120048	0.0035	0.0593
93	PAN130048	0.0015	0.0223
94	PAN120224	0.0284	0.4509
95	PAN130224	0.0256	0.3822
96	PAN120312	0.0658	1.0460
97	PAN130312	0.0055	0.0803
98	PAB000136	0.0358	0.0891
99	PAB100136	0.0499	0.1182
100	PAB125136	0.0484	0.1130

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0110	0.0275
102	PRV000001	0.3564	2.2432
103	PSR000001	0.0099	0.0231
104	PFM000001	0.0254	0.2586
105	PAN000136	0.3487	0.4578
106	PFM000002	0.0381	0.3863
107	EMPTY	0.0027	1350.0001
108	EMPTY	1.0422	16.4261
109	EMPTY	0.0009	900.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.2950	0.2894
113	VPW000002	0.0484	0.0406
114	VPW000003	0.1537	0.1045
115	VPW000004	0.0389	0.0371
116	VPW000005	0.0646	0.0464
117	VPW000006	0.3707	0.2540
118	IPW000001	24.8449	4.5766
119	IPW000002	31.2675	2.3825
120	IPW000003	24.6553	1.8503
121	IPW000004	3.8514	1.0229
122	IPW000005	0.4418	0.1734
123	IPW000006	2.3291	0.8696
124	EMPTY	0.0009	4.1096
125	EMPTY	0.0008	5.5556
126	EMPTY	0.0001	0.5348
127	EMPTY	0.0020	12.1951
128	IHT000001	0.1393	0.1054
129	IHT000002	0.1394	0.1059
130	IHT000003	0.1297	0.0995
131	IHT000004	0.1655	0.1247
132	IHT000005	0.1008	0.0770
133	IHT000006	0.1772	0.1399
134	IHT000007	0.2223	0.1672
135	IHT000008	0.2200	0.1670
136	IHT000009	0.2241	0.1705
137	IHT000010	0.0524	0.0399
138	IHT000011	0.3374	0.2543
139	IHT000012	0.3619	0.2746
140	IHT000013	0.0339	0.0364
141	IHT000014	0.0768	0.0597
142	IHT000015	0.0523	0.0546
143	IHT000016	0.3403	0.3793
144	IHT000017	0.4740	0.4471
145	IHT000018	0.1780	0.1650
146	IHT000019	0.0878	0.0811
147	IHT000020	0.0091	0.0085
148	IHT000021	0.0964	5.3404
149	IHT000022	0.3528	0.3776
150	IHT000023	0.0258	0.0243
151	IHT000024	0.0092	0.0129
152	IHT000025	0.0061	0.0059
153	IHT000026	0.0611	0.0576
154	IHT000027	0.2912	0.3207
155	IHT000028	0.3381	0.3685

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0232	0.0217
157	IHT000030	0.0396	0.0362
158	IHT000031	0.0179	0.0167
159	IHT000032	0.0319	0.0294
160	IHT000033	0.0312	0.0288
161	IHT000034	0.0836	0.0879
162	IHT000035	0.0517	0.0413
163	IHT000036	0.0547	0.0584

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Velocity 1 = 6.0235 (ft/sec) (+/- 5.6936 %)
Velocity 2 = 6.0251 (ft/sec) (+/- 3.8321 %)
Pressure drop = -3.8627 (psi)
Tsat in = 267.7820 (deg F) Tsat out = 273.0889 (deg F)
Phi inner = 99.6830 (kBtu/hr-ft2) (+/- 1.5722 %)
Phi outer = 100.4128 (kBtu/hr-ft2) (+/- 1.5521 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.7524	74.3908	73.9780	1.6320e-01	1.9000e+00
1	TRF000002	74.0875	74.7225	74.3565	1.2978e-01	1.9000e+00
2	TFM000001	85.4778	86.4221	85.9941	1.9750e-01	1.9002e+00
3	TIN000001	85.6777	86.4138	86.0395	1.5917e-01	1.9002e+00
4	TRV000001	86.3256	87.3738	86.8871	2.0920e-01	1.9002e+00
5	TSR000001	138.0015	140.2101	139.3868	5.7219e-01	1.9032e+00
6	EMPTY	37.9974	38.6870	38.4480	2.0745e-01	1.9010e+00
7	TAO050136	173.9270	174.7116	174.3073	1.7884e-01	1.9073e+00
8	TAO070136	179.8714	180.8529	180.2797	2.2907e-01	1.9082e+00
9	TAO080136	179.7641	180.5444	180.1623	1.8360e-01	1.9082e+00
10	TAO090136	196.5594	197.7180	197.1774	2.1089e-01	1.9109e+00
11	TAO100136	194.6992	195.4739	195.0633	1.7761e-01	1.9105e+00
12	TAO105136	197.7430	198.8056	198.3070	2.6637e-01	1.9111e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	209.0883	209.7619	209.4383	1.7129e-01	1.9131e+00
15	EMPTY	32.2314	41.8984	37.8163	1.8471e+00	1.9010e+00
16	TAO125136	216.2113	216.8788	216.5696	1.3550e-01	1.9144e+00
17	EMPTY	44.8706	45.5552	45.1627	1.8464e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5502	1.1561e-01	1.9012e+00
19	TAO130048	198.8591	199.5344	199.1946	1.5844e-01	1.9112e+00
20	TAO120224	205.9308	206.7957	206.3307	1.8548e-01	1.9125e+00
21	EMPTY	38.9168	39.3761	39.0729	1.4256e-01	1.9010e+00
22	TAO120312	210.3098	211.2685	210.8121	2.3768e-01	1.9133e+00
23	TAO130312	202.2408	203.2989	202.6872	1.9110e-01	1.9118e+00
24	EMPTY	38.9168	39.8352	39.3852	2.2227e-01	1.9010e+00
25	TRT070000	186.0076	187.1824	186.5522	2.2650e-01	1.9091e+00
26	TRT100000	202.7731	203.6392	203.2618	1.9800e-01	1.9119e+00
27	TRT120000	207.6205	208.1961	207.9426	1.4858e-01	1.9128e+00
28	TRT125000	209.6413	210.5016	209.9932	1.7509e-01	1.9132e+00
29	EMPTY	39.8352	40.0646	39.9499	1.1590e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6653	2.3560e-01	1.9011e+00
31	TAF050136	118.9796	120.4068	119.6571	3.0681e-01	1.9017e+00
32	TAF070136	129.7133	130.7213	130.2848	2.8256e-01	1.9024e+00
33	TAF080136	134.5794	135.5856	135.0629	2.5270e-01	1.9028e+00
34	TAF090136	139.3573	140.7660	139.9854	2.8128e-01	1.9033e+00
35	TAF100136	147.1428	148.4460	147.7362	2.5370e-01	1.9041e+00
36	TAF105136	152.0619	153.4490	152.5347	2.8613e-01	1.9046e+00
37	TAF110136	156.9324	157.8255	157.3610	2.0054e-01	1.9051e+00
38	TAF115136	160.7766	161.5683	161.2242	1.9195e-01	1.9056e+00
39	TAF120136	164.2479	165.2323	164.8970	1.9092e-01	1.9061e+00
40	TAF125136	167.9442	169.0235	168.4781	2.7155e-01	1.9065e+00
41	TAF130136	171.0670	171.9513	171.4870	1.8087e-01	1.9069e+00
42	TAF120048	164.0382	165.1325	164.5596	2.6097e-01	1.9060e+00
43	TAF130048	168.4476	169.5320	168.9010	2.3386e-01	1.9066e+00
44	TAF120224	163.7815	164.9671	164.2915	2.8876e-01	1.9060e+00
45	TAF130224	169.8611	170.9482	170.4221	2.1174e-01	1.9068e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0388	2.5313e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.4909	1.2488e-01	1.9011e+00
48	TAI130048	212.2711	212.8457	212.4856	1.4798e-01	1.9136e+00
49	TAI130136	213.4100	213.8877	213.6280	1.2213e-01	1.9138e+00
50	TAI130224	212.8025	213.8564	213.1551	1.7678e-01	1.9138e+00
51	TAI130312	211.1144	211.7854	211.3789	1.4038e-01	1.9134e+00
52	TRR130000	119.4367	122.1863	120.6271	5.7603e-01	1.9017e+00
53	TSI000001	41.4664	42.3369	41.9626	1.7473e-01	1.9005e+00
54	TSI000002	86.6491	88.2202	87.3826	4.1121e-01	1.9002e+00
55	TSO000001	40.3166	41.0826	40.7238	1.7697e-01	1.9006e+00
56	TSO000002	49.9946	51.2930	50.6611	2.6161e-01	1.9003e+00
57	TAF020136	99.5811	100.6245	100.0905	2.2383e-01	1.9006e+00
58	EMPTY	42.8139	43.7285	43.1661	2.5810e-01	1.9013e+00
59	TAF130312	173.3282	174.7008	173.8144	2.6423e-01	1.9072e+00
60	EMPTY	2.5684	2.5781	2.5729	2.8608e-03	0.0000e+00
61	EMPTY	2.5684	2.5781	2.5724	2.7356e-03	0.0000e+00
62	EMPTY	2.5684	2.5781	2.5728	1.7784e-03	0.0000e+00
63	EMPTY	2.5732	2.5781	2.5771	2.0432e-03	0.0000e+00
64	EMPTY	1.2451	1.2500	1.2452	6.9053e-04	0.0000e+00
65	EMPTY	1.2598	1.2646	1.2602	1.3381e-03	0.0000e+00
66	EMPTY	1.2695	1.2744	1.2718	2.4583e-03	0.0000e+00
67	EMPTY	1.2842	1.2891	1.2843	6.9053e-04	0.0000e+00
68	EMPTY	1.2939	1.2939	1.2939	0.0000e+00	0.0000e+00
69	EMPTY	1.3037	1.3135	1.3080	1.8821e-03	0.0000e+00
70	EMPTY	1.3184	1.3184	1.3184	0.0000e+00	0.0000e+00
71	EMPTY	1.3330	1.3379	1.3377	9.6655e-04	0.0000e+00
72	EMPTY	1.3428	1.3477	1.3467	1.9730e-03	0.0000e+00
73	EMPTY	1.3574	1.3623	1.3613	1.9730e-03	0.0000e+00
74	EMPTY	1.3672	1.3721	1.3718	1.1714e-03	0.0000e+00
75	EMPTY	1.3818	1.3867	1.3828	1.9730e-03	0.0000e+00
76	EMPTY	1.3916	1.3965	1.3929	2.1635e-03	0.0000e+00
77	EMPTY	1.4063	1.4160	1.4094	2.5648e-03	0.0000e+00
78	EMPTY	1.4258	1.4307	1.4260	9.6655e-04	0.0000e+00
79	EMPTY	1.4453	1.4502	1.4459	1.6028e-03	0.0000e+00
80	PAN020136	-13.7621	-13.3043	-13.5408	1.0817e-01	8.7066e-01
81	PAN050136	-26.0347	-25.4244	-25.7570	1.3327e-01	1.6812e+00
82	PAN070136	-16.5687	-16.1872	-16.4146	7.1454e-02	8.7097e-01
83	PAN080136	-8.7033	-8.3981	-8.5660	8.1562e-02	8.7026e-01
84	PAN090136	-8.8220	-8.5168	-8.6984	6.3346e-02	8.7027e-01
85	PAN100136	-8.6211	-8.3922	-8.5295	6.5395e-02	8.7026e-01
86	PAN105136	-3.7875	-3.5586	-3.6380	6.7116e-02	8.7005e-01
87	PAN110136	-4.1235	-3.8946	-4.0289	6.8170e-02	8.7006e-01
88	PAN115136	-4.2893	-4.1367	-4.1856	4.2938e-02	8.7006e-01
89	PAN120136	-4.5636	-4.1821	-4.4064	7.7698e-02	8.7007e-01
90	PAN125136	-4.7969	-4.4917	-4.6413	6.5322e-02	8.7008e-01
91	PAN130136	-4.5122	-4.2071	-4.3886	7.8428e-02	8.7007e-01
92	PAN120048	-8.1296	-7.9007	-8.0319	7.3986e-02	8.7023e-01
93	PAN130048	-8.8617	-8.6328	-8.7381	6.8742e-02	8.7027e-01
94	PAN120224	-8.6401	-8.3349	-8.4631	7.9257e-02	8.7026e-01
95	PAN130224	-8.7971	-8.5682	-8.6750	6.8932e-02	8.7027e-01
96	PAN120312	-8.5975	-8.2924	-8.4495	6.7908e-02	8.7026e-01
97	PAN130312	-8.9453	-8.6401	-8.7469	7.8595e-02	8.7027e-01
98	PAB000136	40.1903	40.4192	40.2782	5.2185e-02	5.8868e-01
99	PAB100136	43.1120	43.2494	43.1688	4.1934e-02	5.8996e-01
100	PAB125136	43.9264	44.1095	44.0024	4.7707e-02	5.9034e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1008	40.2229	40.1570	6.1457e-02	7.5669e-01
102	PRV000001	15.7760	15.8981	15.8029	5.1081e-02	7.5104e-01
103	PSR000001	44.1269	44.2490	44.2124	5.6508e-02	7.5810e-01
104	PFM000001	5.3910	5.7572	5.5393	9.0406e-02	5.0019e-01
105	PAN000136	-108.5157	-105.3113	-106.9410	5.5613e-01	4.9273e+00
106	PFM000002	5.4896	5.6070	5.5423	3.0323e-02	2.0048e-01
107	EMPTY	-0.0049	0.0049	0.0000	3.9459e-03	0.0000e+00
108	EMPTY	-10.0000	-3.6914	-4.9538	1.6324e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0001	1.8429e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.9231	102.5090	102.2785	1.2283e-01	1.0162e+00
113	VPW000002	118.9340	119.3247	119.1177	1.2104e-01	1.0802e+00
114	VPW000003	146.8299	147.2206	147.0761	9.5112e-02	1.1978e+00
115	VPW000004	104.8302	105.4162	105.0724	1.5057e-01	1.0264e+00
116	VPW000005	139.1376	139.7236	139.5049	1.2251e-01	1.1648e+00
117	VPW000006	145.5416	145.9322	145.8033	1.1578e-01	1.1922e+00
118	IPW000001	553.4896	559.3466	556.8086	1.3805e+00	9.2173e+00
119	IPW000002	1289.3387	1295.1926	1292.1096	1.3128e+00	1.3031e+01
120	IPW000003	1314.0375	1319.8875	1316.0269	1.4996e+00	1.3180e+01
121	IPW000004	378.6997	380.1646	379.3635	3.7899e-01	3.6030e+00
122	IPW000005	253.4959	254.9606	254.1405	3.3362e-01	2.8339e+00
123	IPW000006	265.7471	267.2119	266.3428	3.7291e-01	2.9030e+00
124	EMPTY	-0.0244	-0.0146	-0.0196	3.1950e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0143	2.7621e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	3.0003e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0175	3.5691e-03	0.0000e+00
128	IHT000001	131.4265	133.5750	132.2782	5.6187e-01	4.3081e+00
129	IHT000002	130.6265	132.7749	131.5913	5.5018e-01	4.3060e+00
130	IHT000003	129.3081	131.4566	130.3511	5.8075e-01	4.3022e+00
131	IHT000004	131.4941	133.8379	132.7129	5.9262e-01	4.3094e+00
132	IHT000005	129.8340	132.1777	130.9355	5.6876e-01	4.3040e+00
133	IHT000006	125.3906	127.7344	126.5781	5.3063e-01	4.2909e+00
134	IHT000007	131.7571	133.7102	132.8507	4.5847e-01	4.3099e+00
135	IHT000008	130.4199	132.3730	131.5801	4.4012e-01	4.3060e+00
136	IHT000009	130.2659	132.0237	131.2269	4.3376e-01	4.3049e+00
137	IHT000010	130.3110	132.2641	131.3501	4.1280e-01	4.3053e+00
138	IHT000011	131.4115	133.3646	132.2983	4.0281e-01	4.3082e+00
139	IHT000012	130.3824	132.3355	131.4214	4.4545e-01	4.3055e+00
140	IHT000013	91.9884	94.1369	92.9689	4.6268e-01	4.2041e+00
141	IHT000014	127.4677	129.6161	128.5810	4.7882e-01	4.2969e+00
142	IHT000015	94.7190	96.8675	95.6370	4.7062e-01	4.2101e+00
143	IHT000016	88.8672	91.0156	89.8633	5.0878e-01	4.1973e+00
144	IHT000017	105.8331	108.1768	107.0166	5.4306e-01	4.2374e+00
145	IHT000018	106.7834	108.9318	107.9083	5.0310e-01	4.2396e+00
146	IHT000019	107.2454	109.7844	108.5461	5.9792e-01	4.2413e+00
147	IHT000020	105.7993	108.5336	107.1157	5.7967e-01	4.2376e+00
148	IHT000021	-2.8208	0.3042	-1.3637	7.1049e-01	4.1000e+00
149	IHT000022	92.7509	95.2900	93.8759	5.6574e-01	4.2061e+00
150	IHT000023	105.2133	107.7524	106.2563	5.8075e-01	4.2355e+00
151	IHT000024	70.5529	72.8966	71.4240	5.6111e-01	4.1617e+00
152	IHT000025	102.6067	104.9504	103.4543	5.8873e-01	4.2285e+00
153	IHT000026	105.4800	107.4332	106.1362	5.4213e-01	4.2351e+00
154	IHT000027	90.2006	92.5443	91.1772	5.3233e-01	4.2002e+00
155	IHT000028	90.8091	93.3481	91.9966	5.9036e-01	4.2019e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0284	108.3722	107.0245	6.0264e-01	4.2374e+00
157	IHT000030	108.5224	111.2568	109.5107	6.1815e-01	4.2437e+00
158	IHT000031	106.6031	109.3374	107.4741	6.2541e-01	4.2385e+00
159	IHT000032	107.4294	110.3591	108.3942	6.3431e-01	4.2409e+00
160	IHT000033	107.4219	110.3516	108.3438	6.2768e-01	4.2407e+00
161	IHT000034	94.3059	96.4543	95.0715	4.9731e-01	4.2088e+00
162	IHT000035	124.3164	126.6602	125.0742	5.1090e-01	4.2865e+00
163	IHT000036	92.9800	94.9332	93.6988	4.5411e-01	4.2057e+00

Velocity 1 = 6.0089 (ft/sec) (+/- 5.7123 %)
 Velocity 2 = 6.0127 (ft/sec) (+/- 3.8352 %)
 Pressure drop = -3.8511 (psi)
 Tsat in = 267.5421 (deg F) Tsat out = 272.8611 (deg F)
 Phi inner = 99.8689 (kBtu/hr-ft2) (+/- 1.5717 %)
 Phi outer = 100.6595 (kBtu/hr-ft2) (+/- 1.5511 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.7524	74.3908	74.0304	1.6938e-01	1.9000e+00
1	TRF000002	74.2992	74.7225	74.4762	1.3897e-01	1.9000e+00
2	TFM000001	87.0499	87.9925	87.5500	2.2955e-01	1.9002e+00
3	TIN000001	87.1492	87.9891	87.5672	1.9463e-01	1.9002e+00
4	TRV000001	88.2077	88.9404	88.5690	1.8251e-01	1.9002e+00
5	TSR000001	143.0130	144.1154	143.5978	2.7058e-01	1.9036e+00
6	EMPTY	37.9974	38.9168	38.4431	2.4561e-01	1.9010e+00
7	TAO050136	174.7090	175.3947	175.1070	1.6777e-01	1.9074e+00
8	TAO070136	180.6577	182.0309	181.4366	2.6748e-01	1.9083e+00
9	TAO080136	180.9313	181.8077	181.4280	1.9903e-01	1.9083e+00
10	TAO090136	186.0989	186.9740	186.5077	2.0718e-01	1.9091e+00
11	TAO100136	195.9564	196.8261	196.4849	2.0037e-01	1.9107e+00
12	TAO105136	199.4801	200.5414	200.0002	2.4020e-01	1.9114e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	210.2430	211.1072	210.6821	1.9209e-01	1.9133e+00
15	EMPTY	32.2314	40.9819	37.6197	2.1026e+00	1.9010e+00
16	TAO125136	217.4458	218.0172	217.7898	1.3296e-01	1.9147e+00
17	EMPTY	44.8706	45.5552	45.1780	1.9514e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5384	1.1454e-01	1.9012e+00
19	TAO130048	199.7240	200.4947	200.0760	1.2976e-01	1.9114e+00
20	TAO120224	207.0832	208.2350	207.7749	2.2249e-01	1.9127e+00
21	EMPTY	38.9168	39.3761	39.0996	1.6226e-01	1.9010e+00
22	TAO120312	211.5564	212.4185	212.0000	2.0760e-01	1.9135e+00
23	TAO130312	203.5852	204.1620	203.8366	1.3983e-01	1.9120e+00
24	EMPTY	39.1464	39.6057	39.4698	1.6845e-01	1.9010e+00
25	TRT070000	187.1833	187.8703	187.5334	1.8517e-01	1.9093e+00
26	TRT100000	204.2140	205.0788	204.5966	2.0043e-01	1.9122e+00
27	TRT120000	208.6748	209.3461	209.0486	1.5935e-01	1.9130e+00
28	TRT125000	210.5944	211.3568	211.0144	1.9464e-01	1.9133e+00
29	EMPTY	39.8352	40.2940	39.9663	1.2392e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6900	1.9709e-01	1.9011e+00
31	TAF050136	120.6095	121.6290	121.0821	2.6519e-01	1.9018e+00
32	TAF070136	131.0232	132.6350	131.6580	3.2914e-01	1.9026e+00
33	TAF080136	135.7843	136.9880	136.5171	2.4587e-01	1.9030e+00
34	TAF090136	140.9662	142.1725	141.5983	2.5624e-01	1.9035e+00
35	TAF100136	148.9465	149.7480	149.3433	2.1036e-01	1.9042e+00
36	TAF105136	153.4470	154.7328	154.0967	2.9519e-01	1.9048e+00
37	TAF110136	158.5148	159.5036	158.9593	2.0991e-01	1.9053e+00
38	TAF115136	162.3585	163.2478	162.7577	2.2463e-01	1.9058e+00
39	TAF120136	165.9196	166.9022	166.4544	2.0387e-01	1.9063e+00
40	TAF125136	169.4133	170.5881	169.9688	3.0785e-01	1.9067e+00
41	TAF130136	172.6359	173.5185	173.0567	2.1000e-01	1.9071e+00
42	TAF120048	165.2329	166.7227	165.9832	2.9337e-01	1.9062e+00
43	TAF130048	169.6293	170.7130	170.3328	2.3264e-01	1.9068e+00
44	TAF120224	165.2627	166.3480	165.7439	2.3970e-01	1.9062e+00
45	TAF130224	171.4425	172.7268	171.9512	2.7056e-01	1.9070e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9786	2.3859e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.4604	1.1182e-01	1.9010e+00
48	TAI130048	213.6096	214.1832	213.8731	1.4936e-01	1.9139e+00
49	TAI130136	214.8382	215.4104	215.1497	1.4150e-01	1.9141e+00
50	TAI130224	214.4310	215.0056	214.6578	1.5219e-01	1.9140e+00
51	TAI130312	212.3600	213.1258	212.7606	1.4316e-01	1.9137e+00
52	TRR130000	128.5745	130.7998	129.4381	5.3310e-01	1.9024e+00
53	TSI000001	41.4671	42.4456	41.9552	1.8865e-01	1.9005e+00
54	TSI000002	93.4378	95.0004	94.2099	3.1955e-01	1.9004e+00
55	TSO000001	40.2068	41.0826	40.6446	2.1887e-01	1.9006e+00
56	TSO000002	50.2111	51.1846	50.6769	2.2970e-01	1.9003e+00
57	TAF020136	100.7300	102.2947	101.5439	2.8805e-01	1.9007e+00
58	EMPTY	42.8139	43.5000	43.1546	2.3398e-01	1.9013e+00
59	TAF130312	174.5043	176.0716	175.1282	2.8474e-01	1.9074e+00
60	EMPTY	2.5977	2.6172	2.6054	3.2934e-03	0.0000e+00
61	EMPTY	2.5928	2.6074	2.6038	2.7793e-03	0.0000e+00
62	EMPTY	2.6025	2.6074	2.6029	1.3508e-03	0.0000e+00
63	EMPTY	2.6074	2.6123	2.6076	9.7615e-04	0.0000e+00
64	EMPTY	1.2549	1.2695	1.2596	2.2196e-03	0.0000e+00
65	EMPTY	1.2744	1.2793	1.2750	1.6172e-03	0.0000e+00
66	EMPTY	1.2842	1.2891	1.2859	2.3483e-03	0.0000e+00
67	EMPTY	1.2939	1.2988	1.2981	1.7263e-03	0.0000e+00
68	EMPTY	1.3037	1.3086	1.3071	2.2737e-03	0.0000e+00
69	EMPTY	1.3184	1.3281	1.3213	2.6022e-03	0.0000e+00
70	EMPTY	1.3281	1.3379	1.3316	2.4414e-03	0.0000e+00
71	EMPTY	1.3477	1.3525	1.3503	2.4538e-03	0.0000e+00
72	EMPTY	1.3525	1.3623	1.3595	2.6370e-03	0.0000e+00
73	EMPTY	1.3672	1.3770	1.3733	2.3440e-03	0.0000e+00
74	EMPTY	1.3818	1.3867	1.3838	2.4247e-03	0.0000e+00
75	EMPTY	1.3916	1.4014	1.3965	1.4095e-03	0.0000e+00
76	EMPTY	1.4014	1.4111	1.4061	1.3951e-03	0.0000e+00
77	EMPTY	1.4209	1.4258	1.4213	1.3508e-03	0.0000e+00
78	EMPTY	1.4355	1.4453	1.4397	1.9934e-03	0.0000e+00
79	EMPTY	1.4551	1.4648	1.4597	1.5467e-03	0.0000e+00
80	PAN020136	-13.6095	-13.1517	-13.3214	1.0819e-01	8.7064e-01
81	PAN050136	-26.1873	-25.4244	-25.7701	1.4864e-01	1.6812e+00
82	PAN070136	-16.6450	-16.2635	-16.4317	8.9435e-02	8.7097e-01
83	PAN080136	-8.7033	-8.3981	-8.5632	9.7688e-02	8.7026e-01
84	PAN090136	-8.8220	-8.5931	-8.7068	5.8525e-02	8.7027e-01
85	PAN100136	-8.6211	-8.3922	-8.5261	6.8824e-02	8.7026e-01
86	PAN105136	-3.7875	-3.5586	-3.6427	6.0806e-02	8.7005e-01
87	PAN110136	-4.1998	-3.8946	-4.0176	7.7581e-02	8.7006e-01
88	PAN115136	-4.2893	-4.0604	-4.1772	6.4403e-02	8.7006e-01
89	PAN120136	-4.5636	-4.2584	-4.4079	7.7804e-02	8.7007e-01
90	PAN125136	-4.7969	-4.5680	-4.6895	5.1459e-02	8.7008e-01
91	PAN130136	-4.4359	-4.2071	-4.3145	7.7740e-02	8.7007e-01
92	PAN120048	-8.2059	-7.9007	-8.0518	7.0494e-02	8.7023e-01
93	PAN130048	-8.8617	-8.6328	-8.7480	6.9859e-02	8.7027e-01
94	PAN120224	-8.6401	-8.3349	-8.4532	7.3147e-02	8.7026e-01
95	PAN130224	-8.7971	-8.4919	-8.6663	7.9409e-02	8.7027e-01
96	PAN120312	-8.5975	-8.2161	-8.4372	8.1288e-02	8.7026e-01
97	PAN130312	-8.8690	-8.6401	-8.7615	7.7740e-02	8.7028e-01
98	PAB000136	40.0530	40.1903	40.1165	4.3644e-02	5.8861e-01
99	PAB100136	42.9289	43.0663	43.0000	4.0795e-02	5.8988e-01
100	PAB125136	43.7433	43.9264	43.8367	4.2778e-02	5.9026e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8567	40.1008	40.0012	8.8706e-02	7.5664e-01
102	PRV000001	15.6539	15.7760	15.6813	5.1461e-02	7.5102e-01
103	PSR000001	44.0048	44.1269	44.0920	5.5717e-02	7.5806e-01
104	PFM000001	5.2994	5.7572	5.5106	9.1941e-02	5.0019e-01
105	PAN000136	-108.0579	-105.7691	-106.6192	6.2682e-01	4.9272e+00
106	PFM000002	5.4392	5.6406	5.5177	4.4578e-02	2.0048e-01
107	EMPTY	-0.0049	0.0049	0.0000	4.4574e-03	0.0000e+00
108	EMPTY	-10.0000	-3.8281	-5.7769	2.3107e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0005	2.2826e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0007	1.7263e-03	0.0000e+00
112	VPW000001	101.9231	102.7043	102.2539	2.1173e-01	1.0161e+00
113	VPW000002	118.7387	119.3247	119.1294	1.3223e-01	1.0803e+00
114	VPW000003	146.8299	147.4159	147.0851	1.3928e-01	1.1979e+00
115	VPW000004	104.8302	105.4162	105.1092	1.3811e-01	1.0266e+00
116	VPW000005	139.1376	139.9189	139.5522	1.6741e-01	1.1650e+00
117	VPW000006	145.3463	146.1275	145.7568	1.7490e-01	1.1920e+00
118	IPW000001	551.5372	561.2990	555.9998	1.8262e+00	9.2143e+00
119	IPW000002	1291.2900	1304.9490	1298.1792	3.5870e+00	1.3069e+01
120	IPW000003	1315.9875	1323.7875	1319.3301	1.6887e+00	1.3200e+01
121	IPW000004	377.7231	380.1646	379.1280	6.2747e-01	3.6015e+00
122	IPW000005	253.4959	255.4488	254.5721	4.5648e-01	2.8363e+00
123	IPW000006	265.2588	266.7236	265.9862	4.2430e-01	2.9009e+00
124	EMPTY	-0.0293	-0.0146	-0.0203	3.9046e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0136	3.0339e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0166	3.2934e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0174	3.5937e-03	0.0000e+00
128	IHT000001	130.8406	133.3797	132.0963	5.4373e-01	4.3075e+00
129	IHT000002	130.2359	132.7749	131.4556	4.9880e-01	4.3056e+00
130	IHT000003	129.1128	131.4566	130.2847	5.0587e-01	4.3020e+00
131	IHT000004	131.2988	133.8379	132.5743	5.2756e-01	4.3090e+00
132	IHT000005	129.4433	131.9824	130.7986	5.0651e-01	4.3036e+00
133	IHT000006	125.1953	127.5390	126.4708	5.0446e-01	4.2906e+00
134	IHT000007	131.5618	134.1008	132.7296	5.4880e-01	4.3095e+00
135	IHT000008	130.4199	132.7637	131.5081	5.7360e-01	4.3057e+00
136	IHT000009	130.0706	132.4144	131.1628	5.4214e-01	4.3047e+00
137	IHT000010	130.1157	132.4594	131.2716	5.8977e-01	4.3050e+00
138	IHT000011	131.0209	133.5600	132.2765	5.6099e-01	4.3081e+00
139	IHT000012	130.1871	132.9214	131.3509	5.6937e-01	4.3053e+00
140	IHT000013	91.5978	94.5275	92.9810	5.6218e-01	4.2041e+00
141	IHT000014	127.2724	130.0068	128.6715	5.6571e-01	4.2972e+00
142	IHT000015	94.5237	96.8675	95.6677	5.5386e-01	4.2101e+00
143	IHT000016	88.4766	91.2109	89.7840	5.4256e-01	4.1972e+00
144	IHT000017	106.0284	108.3722	107.0089	6.1180e-01	4.2373e+00
145	IHT000018	106.9787	109.7131	107.9951	5.8726e-01	4.2398e+00
146	IHT000019	107.4407	109.3938	108.4092	4.7501e-01	4.2409e+00
147	IHT000020	105.7993	107.9477	106.9273	4.4976e-01	4.2371e+00
148	IHT000021	-2.6255	-0.2817	-1.5413	5.3794e-01	4.1000e+00
149	IHT000022	92.7509	95.0947	93.6518	4.7142e-01	4.2056e+00
150	IHT000023	105.2133	107.1665	106.1541	4.0397e-01	4.2352e+00
151	IHT000024	70.1623	72.3107	71.2744	4.2605e-01	4.1615e+00
152	IHT000025	102.2161	104.5598	103.3959	4.9468e-01	4.2284e+00
153	IHT000026	104.6988	107.0425	106.0619	4.9393e-01	4.2350e+00
154	IHT000027	89.8100	91.9584	91.0257	5.5137e-01	4.1998e+00
155	IHT000028	90.4184	93.3481	91.9770	6.3850e-01	4.2019e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6378	108.1768	107.0846	5.7900e-01	4.2375e+00
157	IHT000030	108.1318	110.8661	109.5827	6.0331e-01	4.2439e+00
158	IHT000031	106.2124	108.7515	107.5318	5.6316e-01	4.2387e+00
159	IHT000032	107.2341	109.9685	108.4578	6.0433e-01	4.2410e+00
160	IHT000033	107.2266	109.9609	108.4184	6.2179e-01	4.2409e+00
161	IHT000034	94.1106	96.2590	95.1190	5.0010e-01	4.2089e+00
162	IHT000035	123.9258	126.0742	125.117	4.9030e-01	4.2867e+00
163	IHT000036	92.7847	94.3472	93.7134	4.3588e-01	4.2057e+00

Velocity 1 = 0.014600 (ft/sec)
 Velocity 2 = 0.012400 (ft/sec)
 Pressure Drop = 0.011600 (psi)
 Tsat in = 0.239899 (deg F) Tsat out = 0.227783 (deg F)
 Phi inner = 0.185898 (kBtu/hr-ft2) Phi outer = 0.246696 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0524	0.0708
1	TRF000002	0.0797	0.1071
2	TFM000001	1.5559	1.8093
3	TIN000001	1.5277	1.7756
4	TRV000001	1.6819	1.9357
5	TSR000001	4.2110	3.0211
6	EMPTY	0.0049	0.0127
7	TAO050136	0.7997	0.4588
8	TAO070136	1.1569	0.6417
9	TAO080136	1.2657	0.7025
10	TAO090136	10.6697	5.4112
11	TAO100136	1.4216	0.7288
12	TAO105136	1.6932	0.8538
13	EMPTY	0.0000	0.0000
14	TAO115136	1.2438	0.5939
15	EMPTY	0.1966	0.5199
16	TAO125136	1.2202	0.5634
17	EMPTY	0.0153	0.0339
18	EMPTY	0.0118	0.0284
19	TAO130048	0.8814	0.4425
20	TAO120224	1.4442	0.6999
21	EMPTY	0.0267	0.0683
22	TAO120312	1.1879	0.5635
23	TAO130312	1.1494	0.5671
24	EMPTY	0.0846	0.2148
25	TRT070000	0.9812	0.5260
26	TRT100000	1.3348	0.6567
27	TRT120000	1.1060	0.5319
28	TRT125000	1.0212	0.4863
29	EMPTY	0.0164	0.0410
30	EMPTY	0.0247	0.0623
31	TAF050136	1.4250	1.1909
32	TAF070136	1.3732	1.0540
33	TAF080136	1.4542	1.0767
34	TAF090136	1.6129	1.1522
35	TAF100136	1.6071	1.0878
36	TAF105136	1.5620	1.0240
37	TAF110136	1.5983	1.0157
38	TAF115136	1.5335	0.9512
39	TAF120136	1.5574	0.9445
40	TAF125136	1.4907	0.8848
41	TAF130136	1.5697	0.9153
42	TAF120048	1.4236	0.8651
43	TAF130048	1.4318	0.8477
44	TAF120224	1.4524	0.8840
45	TAF130224	1.5291	0.8972

#	Name	Abs Diff	%Diff
46	EMPTY	0.0602	0.1583
47	EMPTY	0.0305	0.0772
48	TAI130048	1.3875	0.6530
49	TAI130136	1.5217	0.7123
50	TAI130224	1.5027	0.7050
51	TAI130312	1.3817	0.6537
52	TRR130000	8.8110	7.3043
53	TSI000001	0.0074	0.0176
54	TSI000002	6.8273	7.8131
55	TSO000001	0.0792	0.1945
56	TSO000002	0.0158	0.0312
57	TAF020136	1.4534	1.4521
58	EMPTY	0.0115	0.0266
59	TAF130312	1.3138	0.7559
60	EMPTY	0.0325	1.2632
61	EMPTY	0.0314	1.2206
62	EMPTY	0.0301	1.1699
63	EMPTY	0.0305	1.1835
64	EMPTY	0.0144	1.1564
65	EMPTY	0.0148	1.1744
66	EMPTY	0.0141	1.1087
67	EMPTY	0.0138	1.0745
68	EMPTY	0.0132	1.0202
69	EMPTY	0.0133	1.0168
70	EMPTY	0.0132	1.0012
71	EMPTY	0.0126	0.9419
72	EMPTY	0.0128	0.9505
73	EMPTY	0.0120	0.8815
74	EMPTY	0.0120	0.8748
75	EMPTY	0.0137	0.9907
76	EMPTY	0.0132	0.9477
77	EMPTY	0.0119	0.8443
78	EMPTY	0.0137	0.9607
79	EMPTY	0.0138	0.9544
80	PAN020136	0.2194	1.6203
81	PAN050136	0.0131	0.0509
82	PAN070136	0.0171	0.1042
83	PAN080136	0.0028	0.0327
84	PAN090136	0.0084	0.0966
85	PAN100136	0.0034	0.0399
86	PAN105136	0.0047	0.1292
87	PAN110136	0.0113	0.2805
88	PAN115136	0.0084	0.2007
89	PAN120136	0.0015	0.0340
90	PAN125136	0.0482	1.0385
91	PAN130136	0.0741	1.6885
92	PAN120048	0.0199	0.2478
93	PAN130048	0.0099	0.1133
94	PAN120224	0.0099	0.1170
95	PAN130224	0.0087	0.1003
96	PAN120312	0.0123	0.1456
97	PAN130312	0.0146	0.1669
98	PAB000136	0.1617	0.4015
99	PAB100136	0.1688	0.3910
100	PAB125136	0.1657	0.3766

#	Name	Abs Diff	%Diff
101	PIN000001	0.1558	0.3880
102	PRV000001	0.1216	0.7695
103	PSR000001	0.1204	0.2723
104	PFM000001	0.0287	0.5181
105	PAN000136	0.3218	0.3009
106	PFM000002	0.0246	0.4439
107	EMPTY	0.0000	0.0000
108	EMPTY	0.8231	16.6155
109	EMPTY	0.0004	400.0001
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0007	100.0000
112	VPW000001	0.0246	0.0241
113	VPW000002	0.0117	0.0098
114	VPW000003	0.0090	0.0061
115	VPW000004	0.0368	0.0350
116	VPW000005	0.0473	0.0339
117	VPW000006	0.0465	0.0319
118	IPW000001	0.8088	0.1453
119	IPW000002	6.0696	0.4697
120	IPW000003	3.3032	0.2510
121	IPW000004	0.2355	0.0621
122	IPW000005	0.4316	0.1698
123	IPW000006	0.3566	0.1339
124	EMPTY	0.0007	3.5714
125	EMPTY	0.0007	4.8951
126	EMPTY	0.0005	3.1056
127	EMPTY	0.0001	0.5714
128	IHT000001	0.1819	0.1375
129	IHT000002	0.1357	0.1031
130	IHT000003	0.0664	0.0509
131	IHT000004	0.1386	0.1044
132	IHT000005	0.1369	0.1046
133	IHT000006	0.1073	0.0848
134	IHT000007	0.1211	0.0912
135	IHT000008	0.0720	0.0547
136	IHT000009	0.0641	0.0488
137	IHT000010	0.0785	0.0598
138	IHT000011	0.0218	0.0165
139	IHT000012	0.0705	0.0536
140	IHT000013	0.0121	0.0130
141	IHT000014	0.0905	0.0704
142	IHT000015	0.0307	0.0321
143	IHT000016	0.0793	0.0882
144	IHT000017	0.0077	0.0072
145	IHT000018	0.0868	0.0804
146	IHT000019	0.1369	0.1261
147	IHT000020	0.1884	0.1759
148	IHT000021	0.1776	13.0234
149	IHT000022	0.2241	0.2387
150	IHT000023	0.1022	0.0962
151	IHT000024	0.1496	0.2095
152	IHT000025	0.0584	0.0565
153	IHT000026	0.0743	0.0700
154	IHT000027	0.1515	0.1662
155	IHT000028	0.0196	0.0213

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0601	0.0562
157	IHT000030	0.0720	0.0658
158	IHT000031	0.0577	0.0537
159	IHT000032	0.0636	0.0587
160	IHT000033	0.0746	0.0689
161	IHT000034	0.0475	0.0500
162	IHT000035	0.0434	0.0347
163	IHT000036	0.0146	0.0156

Velocity 1 = 3.9653 (ft/sec) (+/- 11.1371 %)
 Velocity 2 = 3.9980 (ft/sec) (+/- 5.1070 %)
 Pressure drop = -4.6669 (psi)
 Tsat in = 267.7643 (deg F) Tsat out = 274.1572 (deg F)
 Phi inner = 99.2647 (kBtu/hr-ft2) (+/- 1.5734 %)
 Phi outer = 99.7965 (kBtu/hr-ft2) (+/- 1.5539 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	73.9652	74.6035	74.2163	1.5905e-01	1.9000e+00
1	TRF0000002	74.5108	74.9340	74.6462	1.3357e-01	1.9000e+00
2	TFM0000001	86.1079	87.0518	86.4830	2.1298e-01	1.9002e+00
3	TIN0000001	86.0982	86.8341	86.4410	1.6693e-01	1.9002e+00
4	TRV0000001	87.2686	88.1065	87.7476	2.0617e-01	1.9002e+00
5	TSR0000001	153.9754	156.0581	155.2908	5.8806e-01	1.9049e+00
6	EMPTY	37.9974	38.9168	38.4939	2.4287e-01	1.9010e+00
7	TAO050136	207.5552	208.4160	207.9058	2.0323e-01	1.9128e+00
8	TAO070136	216.8528	218.1927	217.5136	2.5308e-01	1.9146e+00
9	TAO080136	215.4012	216.4482	215.8598	2.0027e-01	1.9143e+00
10	TAO090136	167.4087	168.2964	167.8722	2.1191e-01	1.9064e+00
11	TAO100136	240.0473	240.7989	240.4515	1.7308e-01	1.9195e+00
12	TAO105136	244.9076	246.2192	245.5692	2.8657e-01	1.9207e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	258.6353	259.6606	259.0509	2.4419e-01	1.9239e+00
15	EMPTY	33.1563	42.8139	38.0054	3.3402e+00	1.9010e+00
16	TAO125136	269.8191	270.9225	270.3467	2.5728e-01	1.9269e+00
17	EMPTY	44.8706	45.5552	45.2266	1.6724e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5731	1.1421e-01	1.9012e+00
19	TAO130048	247.9384	248.6850	248.2764	1.7472e-01	1.9213e+00
20	TAO120224	257.3304	258.3534	257.8643	2.4188e-01	1.9236e+00
21	EMPTY	39.1464	39.6057	39.3118	1.3948e-01	1.9010e+00
22	TAO120312	261.1805	262.5737	261.7027	3.0482e-01	1.9246e+00
23	TAO130312	251.3019	252.3274	251.6991	2.2417e-01	1.9221e+00
24	EMPTY	39.1464	39.8352	39.5368	1.9814e-01	1.9011e+00
25	TRT070000	224.4534	225.4072	224.9408	2.0506e-01	1.9161e+00
26	TRT100000	249.9946	250.8344	250.4258	1.8453e-01	1.9218e+00
27	TRT120000	257.7325	258.5692	258.0618	1.6824e-01	1.9237e+00
28	TRT125000	260.1348	260.9684	260.5438	1.8964e-01	1.9243e+00
29	EMPTY	39.8352	40.2940	40.0555	1.0324e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6883	2.3537e-01	1.9011e+00
31	TAF050136	135.9943	138.1062	137.1749	4.5419e-01	1.9030e+00
32	TAF070136	152.4100	154.5899	153.2604	4.2725e-01	1.9047e+00
33	TAF080136	160.0175	161.6903	160.8898	3.3801e-01	1.9056e+00
34	TAF090136	168.4239	170.0977	169.2175	4.0919e-01	1.9066e+00
35	TAF100136	179.5548	181.0236	180.2542	2.7481e-01	1.9082e+00
36	TAF105136	186.7140	187.9720	187.4157	3.2018e-01	1.9093e+00
37	TAF110136	195.1800	198.5446	196.7626	8.2354e-01	1.9108e+00
38	TAF115136	200.5524	202.8589	201.1658	4.4365e-01	1.9116e+00
39	TAF120136	206.1062	208.1109	206.8036	4.0438e-01	1.9126e+00
40	TAF125136	211.0571	212.9582	212.1122	3.9219e-01	1.9136e+00
41	TAF130136	215.9931	217.7057	216.5779	4.0270e-01	1.9144e+00
42	TAF120048	203.6164	207.1952	205.1391	1.1101e+00	1.9123e+00
43	TAF130048	210.4860	212.0165	211.0471	3.5481e-01	1.9134e+00
44	TAF120224	204.8578	207.0635	205.5966	4.4072e-01	1.9123e+00
45	TAF130224	213.4434	215.7471	214.8505	5.0277e-01	1.9141e+00

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9652	2.1293e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5965	1.5353e-01	1.9011e+00
48	TAI130048	264.5718	265.2204	265.0035	1.5944e-01	1.9254e+00
49	TAI130136	267.8023	268.3568	268.0811	1.3649e-01	1.9263e+00
50	TAI130224	266.4288	267.1702	266.8643	1.6870e-01	1.9259e+00
51	TAI130312	264.0852	264.6414	264.3540	1.2316e-01	1.9253e+00
52	TRR130000	131.7087	135.2366	133.4008	1.0601e+00	1.9027e+00
53	TSI000001	42.4449	43.2061	42.7823	1.9796e-01	1.9005e+00
54	TSI000002	85.2876	87.9071	86.8536	5.5473e-01	1.9002e+00
55	TSO000001	40.5349	41.5198	41.0010	1.9500e-01	1.9006e+00
56	TSO000002	53.4519	54.2073	53.9116	2.1561e-01	1.9002e+00
57	TAF020136	106.7747	108.9555	107.7489	4.7755e-01	1.9010e+00
58	EMPTY	42.8139	43.5000	43.0929	2.4575e-01	1.9013e+00
59	TAF130312	217.3624	220.5939	218.4637	6.9279e-01	1.9148e+00
60	EMPTY	3.6768	3.7109	3.6864	9.4357e-03	0.0000e+00
61	EMPTY	3.6670	3.6865	3.6772	5.8569e-03	0.0000e+00
62	EMPTY	3.6621	3.6768	3.6691	4.9481e-03	0.0000e+00
63	EMPTY	3.6621	3.6719	3.6677	3.2733e-03	0.0000e+00
64	EMPTY	1.7236	1.7383	1.7272	3.2434e-03	0.0000e+00
65	EMPTY	1.7334	1.7432	1.7390	1.9754e-03	0.0000e+00
66	EMPTY	1.7432	1.7529	1.7478	2.2945e-03	0.0000e+00
67	EMPTY	1.7529	1.7627	1.7571	1.9754e-03	0.0000e+00
68	EMPTY	1.7627	1.7676	1.7633	1.6028e-03	0.0000e+00
69	EMPTY	1.7725	1.7822	1.7743	2.5894e-03	0.0000e+00
70	EMPTY	1.7773	1.7871	1.7824	1.3811e-03	0.0000e+00
71	EMPTY	1.7969	1.8018	1.7983	2.2603e-03	0.0000e+00
72	EMPTY	1.8018	1.8066	1.8048	2.3941e-03	0.0000e+00
73	EMPTY	1.8115	1.8213	1.8161	1.5314e-03	0.0000e+00
74	EMPTY	1.8213	1.8262	1.8247	2.2603e-03	0.0000e+00
75	EMPTY	1.8311	1.8359	1.8344	2.3008e-03	0.0000e+00
76	EMPTY	1.8408	1.8457	1.8413	1.4797e-03	0.0000e+00
77	EMPTY	1.8506	1.8555	1.8543	2.1065e-03	0.0000e+00
78	EMPTY	1.8652	1.8750	1.8699	1.3811e-03	0.0000e+00
79	EMPTY	1.8848	1.8896	1.8887	1.9730e-03	0.0000e+00
80	PAN020136	-18.6449	-11.1681	-15.8846	1.2237e+00	8.7091e-01
81	PAN050136	-36.5633	-30.9175	-31.4760	9.2565e-01	1.6818e+00
82	PAN070136	-20.6123	-13.1355	-19.8646	1.4088e+00	8.7142e-01
83	PAN080136	-14.0439	-9.4662	-10.0415	1.0387e+00	8.7036e-01
84	PAN090136	-11.7975	-8.5931	-10.9705	5.3269e-01	8.7043e-01
85	PAN100136	-12.8935	-9.1551	-10.0035	6.0814e-01	8.7036e-01
86	PAN105136	-5.0845	-4.6267	-4.8068	8.9559e-02	8.7008e-01
87	PAN110136	-5.8782	2.0563	-4.9978	1.2647e+00	8.7009e-01
88	PAN115136	-7.6463	-4.7471	-5.5299	6.3474e-01	8.7011e-01
89	PAN120136	-6.0895	-4.5636	-5.3143	3.4063e-01	8.7010e-01
90	PAN125136	-6.0176	-4.4917	-5.1875	3.3545e-01	8.7010e-01
91	PAN130136	-5.3515	-4.1308	-4.8418	2.7592e-01	8.7008e-01
92	PAN120048	-10.7999	-3.9334	-10.1102	9.7789e-01	8.7037e-01
93	PAN130048	-12.9053	-8.8617	-9.5712	7.5042e-01	8.7033e-01
94	PAN120224	-13.0651	-10.0134	-10.7549	7.0078e-01	8.7042e-01
95	PAN130224	-10.3230	-8.6445	-9.7248	3.2819e-01	8.7034e-01
96	PAN120312	-11.1915	-9.8945	-10.2730	2.8168e-01	8.7038e-01
97	PAN130312	-10.6237	-9.2504	-9.8623	2.7160e-01	8.7035e-01
98	PAB000136	40.0988	40.3734	40.2663	5.6717e-02	5.8867e-01
99	PAB100136	43.7071	43.8445	43.7831	4.2992e-02	5.9024e-01
100	PAB125136	44.7046	44.8877	44.7861	5.1732e-02	5.9071e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8567	40.2229	40.0349	9.6182e-02	7.5665e-01
102	PRV000001	15.5319	15.6539	15.5343	1.7263e-02	7.5100e-01
103	PSR000001	44.9814	45.1035	45.0473	6.1457e-02	7.5841e-01
104	PFM000001	2.2782	2.4613	2.3624	6.8811e-02	5.0003e-01
105	PAN000136	-132.3194	-128.1995	-129.2066	8.3746e-01	4.9306e+00
106	PFM000002	2.3685	2.4524	2.4024	2.5479e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0042	1.9754e-03	0.0000e+00
108	EMPTY	-10.0000	-3.8086	-6.4010	2.4722e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0025	2.4642e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0014	2.2146e-03	0.0000e+00
112	VPW000001	101.9231	102.5090	102.0910	1.7204e-01	1.0155e+00
113	VPW000002	119.1293	119.5200	119.3286	1.3945e-01	1.0811e+00
114	VPW000003	147.2206	147.6112	147.3925	1.4029e-01	1.1992e+00
115	VPW000004	104.8302	105.4162	105.1076	1.4276e-01	1.0266e+00
116	VPW000005	139.3329	139.9189	139.6963	1.5789e-01	1.1656e+00
117	VPW000006	145.9322	146.5182	146.2290	1.3805e-01	1.1941e+00
118	IPW000001	555.4420	567.1560	561.5722	2.7330e+00	9.2354e+00
119	IPW000002	1267.8748	1277.6311	1273.1045	2.5682e+00	1.2914e+01
120	IPW000003	1304.2875	1310.1375	1307.0178	1.6714e+00	1.3123e+01
121	IPW000004	377.7231	379.1880	378.3479	4.7351e-01	3.5964e+00
122	IPW000005	252.5194	254.4724	253.4374	4.2586e-01	2.8300e+00
123	IPW000006	264.2822	266.2354	265.1318	4.9136e-01	2.8960e+00
124	EMPTY	-0.0342	-0.0146	-0.0227	3.6593e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0158	2.8862e-03	0.0000e+00
126	EMPTY	-0.0293	-0.0098	-0.0187	3.7809e-03	0.0000e+00
127	EMPTY	-0.0293	-0.0098	-0.0181	4.0971e-03	0.0000e+00
128	IHT000001	130.8406	133.5750	131.9500	6.2320e-01	4.3071e+00
129	IHT000002	130.2359	133.1655	131.3609	5.8999e-01	4.3053e+00
130	IHT000003	129.1128	131.8472	130.1792	5.6526e-01	4.3017e+00
131	IHT000004	131.4941	133.8379	132.4785	5.7583e-01	4.3087e+00
132	IHT000005	129.6387	132.3730	130.7090	5.8293e-01	4.3033e+00
133	IHT000006	125.1953	127.7344	126.3867	5.1335e-01	4.2904e+00
134	IHT000007	131.5618	134.1008	132.6789	5.6087e-01	4.3093e+00
135	IHT000008	130.4199	132.5683	131.4355	5.2793e-01	4.3055e+00
136	IHT000009	130.0706	132.2190	131.0355	5.0441e-01	4.3043e+00
137	IHT000010	130.3110	131.8735	131.1274	3.9398e-01	4.3046e+00
138	IHT000011	131.4115	132.9740	132.1928	3.8460e-01	4.3078e+00
139	IHT000012	130.5777	132.3355	131.3198	4.3045e-01	4.3052e+00
140	IHT000013	91.9884	93.5509	92.7111	4.1244e-01	4.2035e+00
141	IHT000014	127.6630	129.6161	128.3974	4.5431e-01	4.2963e+00
142	IHT000015	94.7190	96.4768	95.3948	4.4679e-01	4.2095e+00
143	IHT000016	88.6719	90.4297	89.4570	4.3313e-01	4.1965e+00
144	IHT000017	104.4659	107.5909	105.8057	7.4869e-01	4.2343e+00
145	IHT000018	106.7834	108.7365	107.8419	4.9613e-01	4.2395e+00
146	IHT000019	107.0500	109.5891	108.2609	4.9284e-01	4.2405e+00
147	IHT000020	105.4086	107.9477	106.6548	4.8470e-01	4.2365e+00
148	IHT000021	-3.0161	0.1089	-1.7114	6.1944e-01	4.1000e+00
149	IHT000022	91.9697	95.0947	93.1923	5.5777e-01	4.2046e+00
150	IHT000023	105.0180	107.7524	105.9438	5.0349e-01	4.2347e+00
151	IHT000024	70.1623	72.7013	71.0959	4.6903e-01	4.1612e+00
152	IHT000025	102.4114	104.9504	103.2043	4.7745e-01	4.2279e+00
153	IHT000026	105.0894	107.6285	105.9292	4.9795e-01	4.2346e+00
154	IHT000027	89.8100	92.3490	90.6733	5.2213e-01	4.1991e+00
155	IHT000028	89.8325	92.7622	91.4497	6.3263e-01	4.2008e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4425	107.9815	106.8096	6.1002e-01	4.2368e+00
157	IHT000030	107.9365	110.4755	109.2920	6.0155e-01	4.2432e+00
158	IHT000031	105.8218	108.3609	107.2749	6.0767e-01	4.2380e+00
159	IHT000032	107.0388	109.5778	108.2692	6.3779e-01	4.2405e+00
160	IHT000033	107.0313	109.3750	108.2266	6.2095e-01	4.2404e+00
161	IHT000034	93.7200	95.6731	94.8137	5.3525e-01	4.2082e+00
162	IHT000035	123.7305	125.6836	124.8633	5.2645e-01	4.2859e+00
163	IHT000036	92.1988	94.3472	93.5034	4.8237e-01	4.2053e+00

Velocity 1 = 3.9499 (ft/sec) (+/- 11.2179 %)
 Velocity 2 = 3.9735 (ft/sec) (+/- 5.1420 %)
 Pressure drop = -4.6832 (psi)
 Tsat in = 267.5045 (deg F) Tsat out = 273.9366 (deg F)
 Phi inner = 100.8102 (kBtu/hr-ft2) (+/- 1.5695 %)
 Phi outer = 99.9464 (kBtu/hr-ft2) (+/- 1.5554 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Un:ert
0	TRF0000001	74.1780	74.6035	74.4038	1.6483e-01	1.9000e+00
1	TRF0000002	74.7225	74.9340	74.8650	1.0025e-01	1.9000e+00
2	TFM0000001	86.3174	87.1564	86.7563	1.9574e-01	1.9002e+00
3	TIN0000001	86.4132	87.2542	86.7267	1.5838e-01	1.9002e+00
4	TRV0000001	87.5824	88.4198	88.0503	1.9696e-01	1.9002e+00
5	TSR0000001	158.2363	161.4988	160.5992	7.6293e-01	1.9055e+00
6	EMPTY	37.9974	38.9168	38.5041	2.4368e-01	1.9010e+00
7	TAO050136	208.3202	209.1811	208.6816	1.8648e-01	1.9129e+00
8	TAO070136	218.0014	219.1502	218.4471	2.4831e-01	1.9148e+00
9	TAO080136	216.7306	217.3964	217.0511	1.6534e-01	1.9145e+00
10	TAO090136	165.8321	166.7204	166.3619	2.0201e-01	1.9062e+00
11	TAO100136	241.0801	241.8310	241.4366	1.6145e-01	1.9197e+00
12	TAO105136	246.0315	247.3422	246.6622	2.6534e-01	1.9209e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	259.9404	260.7786	260.3870	1.9108e-01	1.9243e+00
15	EMPTY	32.0000	42.5851	38.2742	3.0363e+00	1.9010e+00
16	TAO125136	271.0136	272.2087	271.5861	2.2293e-01	1.9272e+00
17	EMPTY	44.8706	45.5552	45.1966	1.8040e-01	1.9014e+00
18	EMPTY	41.4403	41.6693	41.5899	1.1017e-01	1.9012e+00
19	TAO130048	248.9635	249.7091	249.2490	1.6851e-01	1.9215e+00
20	TAO120224	258.8177	259.6542	259.1421	2.3237e-01	1.9239e+00
21	EMPTY	39.1464	39.6057	39.3526	1.5717e-01	1.9010e+00
22	TAO120312	262.7591	263.8730	263.3314	2.3155e-01	1.9250e+00
23	TAO130312	252.3263	253.2574	252.7976	1.8663e-01	1.9224e+00
24	EMPTY	39.1464	39.8352	39.5354	2.0536e-01	1.9011e+00
25	TRT070000	224.4521	225.6943	224.9788	3.1099e-01	1.9161e+00
26	TRT100000	251.2999	252.2317	251.8308	2.0858e-01	1.9221e+00
27	TRT120000	259.0332	259.7765	259.3878	1.6497e-01	1.9240e+00
28	TRT125000	262.2567	263.0865	262.6373	1.9549e-01	1.9248e+00
29	EMPTY	39.8352	40.2940	40.0553	6.5557e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.7321	2.0985e-01	1.9011e+00
31	TAF050136	136.7990	138.6077	137.6880	4.2618e-01	1.9031e+00
32	TAF070136	152.8065	154.8886	153.7843	4.8541e-01	1.9047e+00
33	TAF080136	160.8081	162.5776	161.6216	3.9453e-01	1.9056e+00
34	TAF090136	169.5072	170.5898	170.0955	2.8578e-01	1.9067e+00
35	TAF100136	180.7298	182.0020	181.3150	3.3457e-01	1.9083e+00
36	TAF105136	187.6798	188.9350	188.3519	2.9716e-01	1.9094e+00
37	TAF110136	195.7570	200.1767	197.8493	9.5287e-01	1.9110e+00
38	TAF115136	201.7059	203.3394	202.1613	3.0924e-01	1.9117e+00
39	TAF120136	207.1580	209.4468	207.9349	4.1288e-01	1.9128e+00
40	TAF125136	212.4846	214.9507	213.3614	4.4861e-01	1.9138e+00
41	TAF130136	217.3254	219.0359	217.8362	3.4074e-01	1.9147e+00
42	TAF120048	204.6797	206.5188	205.7303	4.7402e-01	1.9124e+00
43	TAF130048	211.6343	214.5964	212.6471	7.6587e-01	1.9137e+00
44	TAF120224	205.7218	208.0219	206.5808	4.7927e-01	1.9125e+00
45	TAF130224	215.1701	217.8552	216.0258	5.5357e-01	1.9143e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1053	1.8239e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.6666	1.0238e-01	1.9011e+00
48	TAI130048	266.0527	266.6077	266.3380	1.5332e-01	1.9258e+00
49	TAI130136	269.0919	269.8292	269.4230	1.4075e-01	1.9266e+00
50	TAI130224	267.4482	268.0965	267.8205	1.4466e-01	1.9262e+00
51	TAI130312	265.4755	265.9390	265.7800	1.1349e-01	1.9256e+00
52	TRR130000	130.6990	135.6392	133.2217	1.5532e+00	1.9027e+00
53	TSI000001	42.4456	43.2069	42.8784	1.7537e-01	1.9005e+00
54	TSI000002	81.8250	84.5554	83.1452	6.8256e-01	1.9001e+00
55	TSO000001	40.8620	41.5188	41.1437	1.7015e-01	1.9006e+00
56	TSO000002	53.7754	54.6386	54.1808	2.1180e-01	1.9002e+00
57	TAF020136	106.7729	108.9543	107.9733	4.1498e-01	1.9010e+00
58	EMPTY	42.8139	43.5000	43.1640	2.5612e-01	1.9013e+00
59	TAF130312	218.6939	220.8798	219.7145	5.0447e-01	1.9150e+00
60	EMPTY	3.7012	3.7256	3.7132	6.6190e-03	0.0000e+00
61	EMPTY	3.6963	3.7109	3.7035	4.5785e-03	0.0000e+00
62	EMPTY	3.6865	3.7012	3.6952	3.6301e-03	0.0000e+00
63	EMPTY	3.6865	3.6963	3.6929	3.1838e-03	0.0000e+00
64	EMPTY	1.7383	1.7432	1.7399	2.3135e-03	0.0000e+00
65	EMPTY	1.7480	1.7529	1.7528	6.9754e-04	0.0000e+00
66	EMPTY	1.7578	1.7627	1.7607	2.4247e-03	0.0000e+00
67	EMPTY	1.7676	1.7725	1.7711	2.2287e-03	0.0000e+00
68	EMPTY	1.7725	1.7773	1.7772	6.9754e-04	0.0000e+00
69	EMPTY	1.7871	1.7920	1.7873	9.7615e-04	0.0000e+00
70	EMPTY	1.7920	1.7969	1.7967	9.7615e-04	0.0000e+00
71	EMPTY	1.8115	1.8164	1.8118	1.1827e-03	0.0000e+00
72	EMPTY	1.8164	1.8213	1.8186	2.4538e-03	0.0000e+00
73	EMPTY	1.8262	1.8311	1.8310	6.9754e-04	0.0000e+00
74	EMPTY	1.8359	1.8408	1.8380	2.4414e-03	0.0000e+00
75	EMPTY	1.8457	1.8506	1.8487	2.4037e-03	0.0000e+00
76	EMPTY	1.8555	1.8604	1.8556	6.9754e-04	0.0000e+00
77	EMPTY	1.8652	1.8701	1.8678	2.4621e-03	0.0000e+00
78	EMPTY	1.8799	1.8848	1.8845	1.1827e-03	0.0000e+00
79	EMPTY	1.8994	1.9092	1.9016	2.6485e-03	0.0000e+00
80	PAN020136	-16.2798	-15.8220	-16.1007	1.2609e-01	8.7093e-01
81	PAN050136	-31.3753	-30.9175	-31.1013	1.3569e-01	1.6818e+00
82	PAN070136	-20.6886	-20.2308	-20.3834	1.0212e-01	8.7149e-01
83	PAN080136	-10.0003	-9.3136	-9.7636	1.1039e-01	8.7034e-01
84	PAN090136	-11.1871	-6.9910	-10.8773	6.2902e-01	8.7042e-01
85	PAN100136	-12.9698	-9.8418	-10.1516	5.6782e-01	8.7037e-01
86	PAN105136	-4.9319	-4.6267	-4.7700	7.7293e-02	8.7008e-01
87	PAN110136	-6.3360	-4.9627	-5.4033	3.1040e-01	8.7010e-01
88	PAN115136	-6.0441	-4.5945	-5.3279	3.4852e-01	8.7010e-01
89	PAN120136	-6.3947	-4.6399	-5.2440	3.7855e-01	8.7010e-01
90	PAN125136	-5.9413	-4.3392	-5.2002	3.4403e-01	8.7010e-01
91	PAN130136	-5.5804	-3.9782	-4.8361	3.4807e-01	8.7008e-01
92	PAN120048	-10.7236	-9.4266	-10.0665	2.5247e-01	8.7036e-01
93	PAN130048	-10.4639	-2.4530	-9.5592	1.2558e+00	8.7033e-01
94	PAN120224	-12.9888	-10.0134	-10.5832	5.8439e-01	8.7040e-01
95	PAN130224	-10.4755	-9.1786	-9.8232	2.5687e-01	8.7035e-01
96	PAN120312	-14.0144	-9.5131	-10.3570	7.7201e-01	8.7039e-01
97	PAN130312	-10.4711	-9.3267	-9.9200	2.5317e-01	8.7035e-01
98	PAB000136	39.9614	40.1903	40.0913	4.2149e-02	5.8860e-01
99	PAB100136	43.5240	43.6614	43.6109	4.0991e-02	5.9016e-01
100	PAB125136	44.5215	44.7046	44.6233	4.6968e-02	5.9063e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9787	40.1008	40.0809	4.5586e-02	7.5666e-01
102	PRV000001	15.5319	15.7760	15.6539	2.4917e-02	7.5102e-01
103	PSR000001	44.8593	44.9814	44.9216	6.1655e-02	7.5836e-01
104	PFM000001	2.1866	2.4613	2.3436	7.4753e-02	5.0003e-01
105	PAN000136	-130.9461	-128.6573	-129.6569	5.0035e-01	4.9307e+00
106	PFM000002	2.3182	2.4189	2.3723	2.2268e-02	2.0009e-01
107	EMPTY	-0.0049	0.0000	-0.0048	6.9754e-04	0.0000e+00
108	EMPTY	-10.0000	-4.3848	-9.6826	1.1428e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0037	2.1215e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0021	2.4414e-03	0.0000e+00
112	VPW000001	101.9231	102.5090	102.2061	1.9556e-01	1.0160e+00
113	VPW000002	118.9340	119.5200	119.2250	1.3881e-01	1.0807e+00
114	VPW000003	147.0252	147.8065	147.3402	1.7747e-01	1.1990e+00
115	VPW000004	104.8302	105.6115	105.2129	1.6895e-01	1.0269e+00
116	VPW000005	138.9423	139.9189	139.5681	2.1829e-01	1.1651e+00
117	VPW000006	145.7369	146.7135	146.1235	2.2725e-01	1.1936e+00
118	IPW000001	532.0138	537.8708	535.2014	1.6283e+00	9.1371e+00
119	IPW000002	1301.0464	1308.8514	1305.3470	2.3218e+00	1.3113e+01
120	IPW000003	1325.7375	1335.4875	1331.0300	1.9089e+00	1.3273e+01
121	IPW000004	370.3989	372.8403	371.7439	6.9434e-01	3.5531e+00
122	IPW000005	252.0312	254.9606	253.6754	5.6984e-01	2.8313e+00
123	IPW000006	265.2588	267.7002	266.2354	5.4592e-01	2.9024e+00
124	EMPTY	-0.0293	-0.0098	-0.0229	4.1341e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0152	2.1453e-03	0.0000e+00
126	EMPTY	-0.0293	-0.0098	-0.0194	3.9227e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	3.3240e-03	0.0000e+00
128	IHT000001	130.6453	132.9890	131.7853	5.3688e-01	4.3066e+00
129	IHT000002	130.0405	132.3843	131.1566	5.3932e-01	4.3047e+00
130	IHT000003	128.5269	131.2613	129.9339	5.7909e-01	4.3010e+00
131	IHT000004	131.1035	133.6426	132.2355	5.4806e-01	4.3080e+00
132	IHT000005	129.4433	131.5918	130.5275	5.0753e-01	4.3028e+00
133	IHT000006	125.0000	127.1484	126.1639	5.2432e-01	4.2897e+00
134	IHT000007	131.3664	133.7102	132.4944	5.5710e-01	4.3088e+00
135	IHT000008	130.2246	132.3730	131.2370	5.1316e-01	4.3049e+00
136	IHT000009	129.8753	131.8284	130.8400	4.7576e-01	4.3037e+00
137	IHT000010	130.1157	132.2641	131.0723	5.4554e-01	4.3044e+00
138	IHT000011	131.2162	133.1693	132.1251	4.7767e-01	4.3076e+00
139	IHT000012	130.3824	132.1402	131.2234	4.3528e-01	4.3049e+00
140	IHT000013	91.7931	93.7463	92.7896	4.3899e-01	4.2037e+00
141	IHT000014	127.2724	129.4208	128.3287	4.8652e-01	4.2961e+00
142	IHT000015	94.5237	96.6722	95.5122	4.6049e-01	4.2098e+00
143	IHT000016	88.4766	90.6250	89.5807	4.9563e-01	4.1967e+00
144	IHT000017	104.8565	107.5909	106.1798	6.0498e-01	4.2353e+00
145	IHT000018	106.9787	109.1271	108.0070	5.3306e-01	4.2399e+00
146	IHT000019	107.4407	109.3938	108.2857	3.9746e-01	4.2406e+00
147	IHT000020	105.7993	107.5571	106.6682	3.6553e-01	4.2365e+00
148	IHT000021	-2.8208	-0.4770	-1.6609	4.6392e-01	4.1000e+00
149	IHT000022	92.1650	94.5087	93.3568	4.2238e-01	4.2049e+00
150	IHT000023	105.0180	106.9711	105.9508	4.4083e-01	4.2347e+00
151	IHT000024	70.1623	72.1154	71.0910	4.1534e-01	4.1612e+00
152	IHT000025	102.2161	104.1692	103.2205	4.4929e-01	4.2279e+00
153	IHT000026	105.0894	107.2378	105.9264	4.6834e-01	4.2346e+00
154	IHT000027	89.8100	91.9584	90.8065	4.9514e-01	4.1994e+00
155	IHT000028	90.2231	92.7622	91.6900	6.0479e-01	4.2013e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8331	107.9815	106.8136	5.6872e-01	4.2369e+00
157	IHT000030	108.3271	110.4755	109.2678	5.3588e-01	4.2431e+00
158	IHT000031	106.4077	108.3609	107.2408	5.2252e-01	4.2379e+00
159	IHT000032	107.2341	109.5778	108.2505	5.2131e-01	4.2405e+00
160	IHT000033	107.2266	109.3750	108.1792	5.0214e-01	4.2403e+00
161	IHT000034	93.9153	96.4543	94.8440	4.7262e-01	4.2083e+00
162	IHT000035	123.5352	125.8789	124.6512	4.7341e-01	4.2853e+00
163	IHT000036	92.5894	94.7378	93.5181	4.0956e-01	4.2053e+00

Velocity 1 = 0.015400 (ft/sec)
 Velocity 2 = 0.024500 (ft/sec)
 Pressure Drop = 0.016300 (psi)
 Tsat in = 0.259827 (deg F) Tsat out = 0.220581 (deg F)
 Phi inner = 1.545502 (kBtu/hr-ft2) Phi outer = 0.149902 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1875	0.2526
1	TRF000002	0.2188	0.2931
2	TFM000001	0.2733	0.3160
3	TIN000001	0.2857	0.3305
4	TRV000001	0.3027	0.3450
5	TSR000001	5.3084	3.4184
6	EMPTY	0.0102	0.0265
7	TAO050136	0.7758	0.3731
8	TAO070136	0.9335	0.4292
9	TAO080136	1.1913	0.5519
10	TAO090136	1.5103	0.8997
11	TAO100136	0.9851	0.4097
12	TAO105136	1.0930	0.4451
13	EMPTY	0.0000	0.0000
14	TAO115136	1.3361	0.5158
15	EMPTY	0.2688	0.7073
16	TAO125136	1.2394	0.4584
17	EMPTY	0.0300	0.0663
18	EMPTY	0.0168	0.0404
19	TAO130048	0.9726	0.3917
20	TAO120224	1.2778	0.4955
21	EMPTY	0.0408	0.1038
22	TAO120312	1.6287	0.6223
23	TAO130312	1.0985	0.4364
24	EMPTY	0.0014	0.0035
25	TRT070000	0.0380	0.0169
26	TRT100000	1.4050	0.5610
27	TRT120000	1.3260	0.5138
28	TRT125000	2.0935	0.8035
29	EMPTY	0.0002	0.0005
30	EMPTY	0.0438	0.1104
31	TAF050136	0.5131	0.3741
32	TAF070136	0.5239	0.3418
33	TAF080136	0.7318	0.4548
34	TAF090136	0.8780	0.5189
35	TAF100136	1.0608	0.5885
36	TAF105136	0.9362	0.4995
37	TAF110136	1.0867	0.5523
38	TAF115136	0.9955	0.4949
39	TAF120136	1.1313	0.5470
40	TAF125136	1.2492	0.5889
41	TAF130136	1.2583	0.5810
42	TAF120048	0.5912	0.2882
43	TAF130048	1.6000	0.7581
44	TAF120224	0.9842	0.4787
45	TAF130224	1.1753	0.5470

#	Name	Abs Diff	%Diff
46	EMPTY	0.1401	0.3690
47	EMPTY	0.0701	0.1770
48	TAI130048	1.3345	0.5036
49	TAI130136	1.3419	0.5006
50	TAI130224	0.9562	0.3583
51	TAI130312	1.4260	0.5394
52	TRR130000	0.1791	0.1343
53	TSI000001	0.0961	0.2246
54	TSI000002	3.7084	4.2697
55	TSO000001	0.1427	0.3480
56	TSO000002	0.2692	0.4993
57	TAF020136	0.2244	0.2083
58	EMPTY	0.0711	0.1650
59	TAF130312	1.2508	0.5725
60	EMPTY	0.0268	0.7270
61	EMPTY	0.0263	0.7152
62	EMPTY	0.0261	0.7113
63	EMPTY	0.0252	0.6871
64	EMPTY	0.0127	0.7353
65	EMPTY	0.0138	0.7936
66	EMPTY	0.0129	0.7381
67	EMPTY	0.0140	0.7968
68	EMPTY	0.0139	0.7883
69	EMPTY	0.0130	0.7327
70	EMPTY	0.0143	0.8023
71	EMPTY	0.0135	0.7507
72	EMPTY	0.0138	0.7646
73	EMPTY	0.0149	0.8204
74	EMPTY	0.0133	0.7289
75	EMPTY	0.0143	0.7795
76	EMPTY	0.0143	0.7766
77	EMPTY	0.0135	0.7280
78	EMPTY	0.0146	0.7808
79	EMPTY	0.0129	0.6830
80	PAN020136	0.2161	1.3604
81	PAN050136	0.3747	1.1904
82	PAN070136	0.5188	2.6117
83	PAN080136	0.2779	2.7675
84	PAN090136	0.0932	0.8495
85	PAN100136	0.1481	1.4805
86	PAN105136	0.0368	0.7656
87	PAN110136	0.4055	8.1136
88	PAN115136	0.2020	3.6529
89	PAN120136	0.0703	1.3228
90	PAN125136	0.0127	0.2448
91	PAN130136	0.0057	0.1177
92	PAN120048	0.0437	0.4322
93	PAN130048	0.0120	0.1254
94	PAN120224	0.1717	1.5965
95	PAN130224	0.0984	1.0118
96	PAN120312	0.0840	0.8177
97	PAN130312	0.0577	0.5851
98	PAB000136	0.1750	0.4346
99	PAB100136	0.1722	0.3933
100	PAB125136	0.1628	0.3635

#	Name	Abs Diff	%Diff
101	PIN000001	0.0460	0.1149
102	PRV000001	0.1196	0.7699
103	PSR000001	0.1257	0.2790
104	PFM000001	0.0188	0.7958
105	PAN000136	0.4503	0.3485
106	PFM000002	0.0301	1.2529
107	EMPTY	0.0006	14.2857
108	EMPTY	3.2816	51.2670
109	EMPTY	0.0012	48.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0007	50.0000
112	VPW000001	0.1151	0.1127
113	VPW000002	0.1036	0.0868
114	VPW000003	0.0523	0.0355
115	VPW000004	0.1053	0.1002
116	VPW000005	0.1282	0.0918
117	VPW000006	0.1055	0.0721
118	IPW000001	26.3708	4.6959
119	IPW000002	32.2426	2.5326
120	IPW000003	24.0122	1.8372
121	IPW000004	6.6040	1.7455
122	IPW000005	0.2380	0.0939
123	IPW000006	1.1036	0.4162
124	EMPTY	0.0002	0.8811
125	EMPTY	0.0006	3.7975
126	EMPTY	0.0007	3.7433
127	EMPTY	0.0011	6.0773
128	IHT000001	0.1647	0.1248
129	IHT000002	0.2043	0.1555
130	IHT000003	0.2453	0.1884
131	IHT000004	0.2430	0.1834
132	IHT000005	0.1815	0.1389
133	IHT000006	0.2228	0.1763
134	IHT000007	0.1845	0.1391
135	IHT000008	0.1985	0.1510
136	IHT000009	0.1955	0.1492
137	IHT000010	0.0551	0.0420
138	IHT000011	0.0677	0.0512
139	IHT000012	0.0964	0.0734
140	IHT000013	0.0785	0.0847
141	IHT000014	0.0687	0.0535
142	IHT000015	0.1174	0.1231
143	IHT000016	0.1237	0.1383
144	IHT000017	0.3741	0.3536
145	IHT000018	0.1651	0.1531
146	IHT000019	0.0248	0.0229
147	IHT000020	0.0134	0.0126
148	IHT000021	0.0505	2.9508
149	IHT000022	0.1645	0.1765
150	IHT000023	0.0070	0.0066
151	IHT000024	0.0049	0.0069
152	IHT000025	0.0162	0.0157
153	IHT000026	0.0028	0.0026
154	IHT000027	0.1332	0.1469
155	IHT000028	0.2403	0.2628

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0040	0.0037
157	IHT000030	0.0242	0.0221
158	IHT000031	0.0341	0.0318
159	IHT000032	0.0187	0.0173
160	IHT000033	0.0474	0.0438
161	IHT000034	0.0303	0.0320
162	IHT000035	0.2121	0.1699
163	IHT000036	0.0147	0.0157

Velocity 1 = 3.4646 (ft/sec) (+/- 14.3828 %)
 Velocity 2 = 3.4843 (ft/sec) (+/- 6.0592 %)
 Pressure drop = -4.8038 (psi)
 Tsat in = 267.7453 (deg F) Tsat out = 274.3489 (deg F)
 Phi inner = 99.8805 (kBtu/hr-ft2) (+/- 1.5719 %)
 Phi outer = 100.6084 (kBtu/hr-ft2) (+/- 1.5515 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8162	75.2415	74.9650	1.7842e-01	1.9000e+00
1	TRF000002	75.1456	75.7801	75.4544	1.4306e-01	1.9000e+00
2	TFM000001	87.1571	88.1002	87.4967	1.9231e-01	1.9002e+00
3	TIN000001	87.2542	87.8841	87.5941	1.6373e-01	1.9002e+00
4	TRV000001	88.5256	89.3624	88.8895	2.0395e-01	1.9002e+00
5	TSR000001	162.7824	165.7388	164.0403	9.9651e-01	1.9059e+00
6	EMPTY	37.9974	38.9168	38.3882	2.3791e-01	1.9010e+00
7	TAO050136	220.9688	221.7281	221.3674	2.0193e-01	1.9154e+00
8	TAO070136	232.7777	234.1994	233.5817	3.0351e-01	1.9179e+00
9	TAO080136	239.7014	240.7311	240.2067	2.1403e-01	1.9194e+00
10	TAO090136	204.7426	205.7990	205.2227	2.7018e-01	1.9123e+00
11	TAO100136	258.4421	259.5562	259.0473	2.9259e-01	1.9239e+00
12	TAO105136	263.9094	265.7609	264.7166	4.3345e-01	1.9254e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	279.5910	280.6042	280.1510	2.8528e-01	1.9295e+00
15	EMPTY	31.3055	42.8139	39.1419	2.9666e+00	1.9010e+00
16	TAO125136	293.6471	294.6461	294.1736	2.2616e-01	1.9336e+00
17	EMPTY	44.8706	45.5552	45.2540	2.0325e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5960	1.1744e-01	1.9012e+00
19	TAO130048	269.8645	270.4177	270.1484	1.6741e-01	1.9268e+00
20	TAO120224	278.4955	279.3220	279.0208	2.0162e-01	1.9292e+00
21	EMPTY	39.1464	39.8352	39.5414	1.6749e-01	1.9011e+00
22	TAO120312	284.3476	285.3562	284.8707	2.6436e-01	1.9309e+00
23	TAO130312	273.2230	273.9592	273.6082	1.7868e-01	1.9277e+00
24	EMPTY	39.1464	39.8352	39.4633	1.7287e-01	1.9010e+00
25	TRT070000	224.5447	230.9364	227.8177	1.5577e+00	1.9167e+00
26	TRT100000	271.3984	272.3193	271.8254	2.2162e-01	1.9272e+00
27	TRT120000	279.9833	280.9012	280.4643	2.1268e-01	1.9296e+00
28	TRT125000	282.6825	283.3220	283.0839	1.7976e-01	1.9303e+00
29	EMPTY	39.8352	40.2940	40.0876	9.5554e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6745	1.8109e-01	1.9011e+00
31	TAF050136	145.1220	147.3194	146.1925	5.4704e-01	1.9039e+00
32	TAF070136	162.8827	166.8124	164.9714	7.2687e-01	1.9061e+00
33	TAF080136	172.9556	175.8796	174.8108	6.0256e-01	1.9074e+00
34	TAF090136	181.8544	185.2643	184.0099	7.2380e-01	1.9087e+00
35	TAF100136	196.0167	200.8518	197.8672	1.3607e+00	1.9110e+00
36	TAF105136	203.7825	207.4975	205.0828	6.9017e-01	1.9123e+00
37	TAF110136	212.8850	221.8018	217.1245	2.2883e+00	1.9145e+00
38	TAF115136	219.1873	222.9820	220.4331	7.8423e-01	1.9152e+00
39	TAF120136	225.5638	228.1081	226.4770	5.3345e-01	1.9164e+00
40	TAF125136	231.4552	233.4236	232.2652	4.3452e-01	1.9177e+00
41	TAF130136	236.3213	238.2934	237.2382	3.9916e-01	1.9187e+00
42	TAF120048	222.3855	225.0613	223.5750	6.5576e-01	1.9158e+00
43	TAF130048	230.3598	233.2863	231.3687	5.1694e-01	1.9175e+00
44	TAF120224	223.1736	225.4480	224.0724	5.2200e-01	1.9159e+00
45	TAF130224	232.9158	235.4739	234.6065	4.8069e-01	1.9182e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9928	2.2030e-01	1.9010e+00
47	EMPTY	39.3761	40.0646	39.7158	1.4839e-01	1.9011e+00
48	TAI130048	286.4692	287.2925	286.8826	1.6553e-01	1.9314e+00
49	TAI130136	289.6788	290.3169	289.9958	1.4066e-01	1.9323e+00
50	TAI130224	285.8847	286.5267	286.2697	1.5925e-01	1.9313e+00
51	TAI130312	285.8362	286.3861	286.1369	1.3477e-01	1.9312e+00
52	TRR130000	140.3629	142.4685	141.3657	4.5216e-01	1.9034e+00
53	TSI000001	42.6655	43.8599	43.2602	2.3463e-01	1.9005e+00
54	TSI000002	86.1287	87.2819	86.7199	2.8228e-01	1.9002e+00
55	TSO000001	40.9694	41.8456	41.3282	2.1434e-01	1.9006e+00
56	TSO000002	55.2852	56.1469	55.7245	2.4218e-01	1.9001e+00
57	TAF020136	111.0263	114.1309	112.2023	6.1689e-01	1.9012e+00
58	EMPTY	42.5851	43.7285	43.1707	2.4949e-01	1.9013e+00
59	TAF130312	237.9684	240.5965	239.1627	5.1135e-01	1.9192e+00
60	EMPTY	4.1895	4.2090	4.1991	5.0772e-03	0.0000e+00
61	EMPTY	4.1797	4.1895	4.1859	3.2777e-03	0.0000e+00
62	EMPTY	4.1699	4.1797	4.1743	2.2603e-03	0.0000e+00
63	EMPTY	4.1650	4.1748	4.1693	2.3428e-03	0.0000e+00
64	EMPTY	1.9482	1.9531	1.9491	1.8950e-03	0.0000e+00
65	EMPTY	1.9580	1.9629	1.9612	2.3365e-03	0.0000e+00
66	EMPTY	1.9629	1.9678	1.9677	6.9053e-04	0.0000e+00
67	EMPTY	1.9727	1.9775	1.9772	1.1714e-03	0.0000e+00
68	EMPTY	1.9775	1.9824	1.9822	9.6655e-04	0.0000e+00
69	EMPTY	1.9873	1.9922	1.9920	9.6655e-04	0.0000e+00
70	EMPTY	1.9971	2.0020	1.9981	2.0432e-03	0.0000e+00
71	EMPTY	2.0068	2.0166	2.0147	2.5894e-03	0.0000e+00
72	EMPTY	2.0166	2.0264	2.0206	2.1364e-03	0.0000e+00
73	EMPTY	2.0264	2.0313	2.0310	1.1714e-03	0.0000e+00
74	EMPTY	2.0361	2.0410	2.0362	6.9053e-04	0.0000e+00
75	EMPTY	2.0459	2.0508	2.0460	6.9053e-04	0.0000e+00
76	EMPTY	2.0508	2.0557	2.0513	1.4797e-03	0.0000e+00
77	EMPTY	2.0605	2.0654	2.0650	1.3381e-03	0.0000e+00
78	EMPTY	2.0752	2.0801	2.0786	2.2603e-03	0.0000e+00
79	EMPTY	2.0947	2.0996	2.0948	6.9053e-04	0.0000e+00
80	PAN020136	-18.1108	-13.9146	-17.2533	7.7798e-01	8.7107e-01
81	PAN050136	-36.4107	-29.8494	-32.2725	9.8389e-01	1.6819e+00
82	PAN070136	-22.3671	-14.5851	-20.7420	1.1233e+00	8.7154e-01
83	PAN080136	-14.1202	-4.3545	-10.4916	1.6660e+00	8.7040e-01
84	PAN090136	-13.3997	-5.3125	-10.0488	1.5881e+00	8.7036e-01
85	PAN100136	-12.9698	-5.1878	-10.8107	1.2058e+00	8.7042e-01
86	PAN105136	-6.2289	-3.9401	-4.8739	5.1366e-01	8.7009e-01
87	PAN110136	-6.0308	2.4378	-4.6758	1.3135e+00	8.7008e-01
88	PAN115136	-7.5700	-4.1367	-5.0584	5.8386e-01	8.7009e-01
89	PAN120136	-6.6235	-4.2584	-5.2930	4.6039e-01	8.7010e-01
90	PAN125136	-6.0176	-3.8814	-5.1158	4.9509e-01	8.7009e-01
91	PAN130136	-5.3515	-4.2071	-4.8983	2.6131e-01	8.7009e-01
92	PAN120048	-11.4102	-9.2740	-9.9408	4.0365e-01	8.7035e-01
93	PAN130048	-10.5402	-9.7772	-10.2365	2.0419e-01	8.7038e-01
94	PAN120224	-10.8526	-9.7082	-10.2499	2.9619e-01	8.7038e-01
95	PAN130224	-10.4755	-9.1023	-9.9064	3.3352e-01	8.7035e-01
96	PAN120312	-11.1915	-9.7419	-10.3111	3.0797e-01	8.7038e-01
97	PAN130312	-10.5474	-9.4030	-10.0729	2.8807e-01	8.7036e-01
98	PAB000136	40.1903	40.3734	40.2535	4.5203e-02	5.8867e-01
99	PAB100136	43.5240	43.9818	43.8948	6.8742e-02	5.9029e-01
100	PAB125136	44.8419	45.0250	44.9280	4.6829e-02	5.9078e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.9787	40.2229	40.0984	9.0580e-02	7.5667e-01
102	PRV0000001	15.4098	15.5319	15.5026	5.2663e-02	7.5100e-01
103	PSR0000001	45.2255	45.2255	45.2256	3.0827e-05	7.5847e-01
104	PFM0000001	1.6373	1.9120	1.7911	6.7809e-02	5.0002e-01
105	PAN000136	-133.6927	-132.3194	-132.9969	4.2622e-01	4.9312e+00
106	PFM0000002	1.7813	1.8484	1.8121	2.0442e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	-0.0025	3.5895e-03	0.0000e+00
108	EMPTY	-10.0000	-3.8184	-5.2699	1.6511e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0011	3.0067e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0013	2.1635e-03	0.0000e+00
112	VPW0000001	102.1184	102.5090	102.4348	1.0358e-01	1.0168e+00
113	VPW0000002	119.1293	119.7153	119.4614	1.0625e-01	1.0816e+00
114	VPW0000003	147.2206	147.6112	147.4628	1.2823e-01	1.1996e+00
115	VPW0000004	105.0255	105.6115	105.2833	1.5505e-01	1.0272e+00
116	VPW0000005	139.7236	140.1142	139.7978	1.0358e-01	1.1660e+00
117	VPW0000006	145.9322	146.5182	146.1900	1.2750e-01	1.1939e+00
118	IPW0000001	551.5372	559.3466	554.9734	1.9145e+00	9.2104e+00
119	IPW0000002	1287.3875	1302.9977	1294.8418	4.8070e+00	1.3048e+01
120	IPW0000003	1312.0875	1317.9375	1315.7928	1.4872e+00	1.3178e+01
121	IPW0000004	375.7700	379.1880	377.3127	9.9805e-01	3.5896e+00
122	IPW0000005	253.4959	254.4724	253.7792	2.8056e-01	2.8319e+00
123	IPW0000006	264.7705	266.2354	265.5420	3.1335e-01	2.8984e+00
124	EMPTY	-0.0293	-0.0146	-0.0209	4.0721e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0141	2.8996e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0176	3.8206e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0173	3.4470e-03	0.0000e+00
128	IHT0000001	130.8406	133.3797	131.8329	5.8506e-01	4.3067e+00
129	IHT0000002	130.0405	132.5796	131.2163	5.3596e-01	4.3049e+00
130	IHT0000003	128.9175	131.8472	130.1480	6.1921e-01	4.3016e+00
131	IHT0000004	131.1035	133.6426	132.2988	6.0056e-01	4.3082e+00
132	IHT0000005	129.4433	131.7871	130.5058	6.1404e-01	4.3027e+00
133	IHT0000006	125.0000	127.3437	126.1641	5.7312e-01	4.2897e+00
134	IHT0000007	131.5618	133.7102	132.5226	5.3936e-01	4.3089e+00
135	IHT0000008	130.2246	132.5683	131.3457	5.2022e-01	4.3052e+00
136	IHT0000009	129.8753	132.2190	130.9027	5.3205e-01	4.3039e+00
137	IHT0000010	130.1157	132.2641	131.2720	5.7432e-01	4.3050e+00
138	IHT0000011	131.0209	133.1693	132.2827	5.2676e-01	4.3081e+00
139	IHT0000012	130.1871	132.5308	131.3550	5.1522e-01	4.3053e+00
140	IHT0000013	91.7931	93.9416	92.9533	4.8874e-01	4.2040e+00
141	IHT0000014	127.4677	129.8114	128.5888	4.8297e-01	4.2969e+00
142	IHT0000015	94.7190	96.6722	95.5276	4.4294e-01	4.2098e+00
143	IHT0000016	88.8672	90.8203	89.6641	4.5308e-01	4.1969e+00
144	IHT0000017	104.8565	107.7862	106.4854	7.6168e-01	4.2360e+00
145	IHT0000018	106.9787	109.5177	107.9357	5.0571e-01	4.2397e+00
146	IHT0000019	107.2454	109.5891	108.5383	4.8631e-01	4.2412e+00
147	IHT0000020	105.4086	107.5571	106.7485	4.4118e-01	4.2367e+00
148	IHT0000021	-3.0161	-0.6723	-1.5708	5.7453e-01	4.1000e+00
149	IHT0000022	92.3603	94.1181	93.3486	4.3119e-01	4.2049e+00
150	IHT0000023	105.0180	106.7758	105.9868	4.6682e-01	4.2348e+00
151	IHT0000024	69.9670	71.9201	71.0568	4.5006e-01	4.1611e+00
152	IHT0000025	102.4114	104.1692	103.3176	4.6981e-01	4.2282e+00
153	IHT0000026	105.0894	106.8472	106.0112	4.7193e-01	4.2348e+00
154	IHT0000027	90.0053	91.9584	90.8256	4.6354e-01	4.1994e+00
155	IHT0000028	90.8091	93.5434	91.8091	6.1338e-01	4.2015e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0284	108.5675	107.0752	6.2734e-01	4.2375e+00
157	IHT000030	108.5224	111.0615	109.4873	5.9896e-01	4.2437e+00
158	IHT000031	106.4077	109.1421	107.3921	6.0356e-01	4.2383e+00
159	IHT000032	107.4294	109.9685	108.4684	5.9509e-01	4.2411e+00
160	IHT000033	107.4219	109.9609	108.4258	6.0233e-01	4.2409e+00
161	IHT000034	93.9153	96.2590	94.9777	5.7203e-01	4.2086e+00
162	IHT000035	124.1211	126.2695	124.9336	5.8840e-01	4.2861e+00
163	IHT000036	92.3941	95.1285	93.6402	5.9958e-01	4.2056e+00

Velocity 1 = 3.4546 (ft/sec) (+/- 14.4584 %)
 Velocity 2 = 3.4817 (ft/sec) (+/- 6.0640 %)
 Pressure drop = -4.8226 (psi)
 Tsat in = 267.6849 (deg F) Tsat out = 274.3034 (deg F)
 Phi inner = 99.8018 (kBtu/hr-ft2) (+/- 1.5721 %)
 Phi outer = 100.6095 (kBtu/hr-ft2) (+/- 1.5512 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.8162	75.6666	75.1764	1.9984e-01	1.9000e+00
1	TRF0000002	75.3571	75.7801	75.6118	1.2934e-01	1.9000e+00
2	TFM0000001	84.9578	85.7972	85.3493	1.8407e-01	1.9002e+00
3	TIN0000001	85.1511	86.0978	85.5357	1.7256e-01	1.9002e+00
4	TRV0000001	85.7029	86.7502	86.3228	2.0160e-01	1.9002e+00
5	TSR0000001	161.6990	165.0501	163.5563	7.0509e-01	1.9059e+00
6	EMPTY	37.9974	38.9168	38.4619	2.3686e-01	1.9010e+00
7	TAO050136	219.6431	220.7824	220.4274	2.1736e-01	1.9152e+00
8	TAO070136	232.0175	233.2514	232.5480	2.7452e-01	1.9177e+00
9	TAO080136	238.7679	239.6113	239.1883	2.0337e-01	1.9192e+00
10	TAO090136	206.1816	207.0458	206.6461	1.9630e-01	1.9125e+00
11	TAO100136	257.6062	258.4424	258.0272	2.0088e-01	1.9237e+00
12	TAO105136	262.6118	264.0949	263.4084	3.6818e-01	1.9250e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	278.6683	279.9591	279.2025	3.1706e-01	1.9293e+00
15	EMPTY	31.5371	42.8139	40.1812	3.1571e+00	1.9011e+00
16	TAO125136	292.8310	293.6505	293.2339	2.0729e-01	1.9333e+00
17	EMPTY	44.8706	45.7833	45.3037	2.0432e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6506	1.2225e-01	1.9012e+00
19	TAO130048	268.7617	269.4996	269.1626	1.5813e-01	1.9265e+00
20	TAO120224	277.2091	278.4043	277.8861	2.6115e-01	1.9289e+00
21	EMPTY	39.1464	39.8352	39.4979	1.4138e-01	1.9011e+00
22	TAO120312	283.3388	284.2564	283.8406	2.6224e-01	1.9306e+00
23	TAO130312	272.1201	272.8572	272.4944	1.5671e-01	1.9274e+00
24	EMPTY	39.1464	39.8352	39.5213	2.0796e-01	1.9011e+00
25	TRT070000	224.8298	230.4593	227.6069	1.4631e+00	1.9167e+00
26	TRT100000	270.3853	271.2151	270.7841	2.2457e-01	1.9270e+00
27	TRT120000	279.0661	279.9842	279.5513	1.9927e-01	1.9294e+00
28	TRT125000	281.5913	282.5030	282.0377	1.9841e-01	1.9301e+00
29	EMPTY	39.8352	40.2940	40.0740	9.3186e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6431	1.8944e-01	1.9011e+00
31	TAF050136	143.2223	145.7223	144.6964	5.0242e-01	1.9038e+00
32	TAF070136	162.2937	165.7351	163.5711	7.7926e-01	1.9059e+00
33	TAF080136	171.7867	174.4181	173.1500	5.8746e-01	1.9072e+00
34	TAF090136	181.2685	183.8042	182.4712	5.7023e-01	1.9085e+00
35	TAF100136	194.5631	196.7917	195.2556	4.0971e-01	1.9105e+00
36	TAF105136	202.3557	205.1199	203.2174	5.8425e-01	1.9119e+00
37	TAF110136	211.5550	220.8585	215.2436	2.5351e+00	1.9142e+00
38	TAF115136	217.3820	220.5175	218.8781	7.0707e-01	1.9149e+00
39	TAF120136	223.9608	225.9451	224.8535	4.5108e-01	1.9161e+00
40	TAF125136	229.5797	231.8318	230.7691	5.0434e-01	1.9173e+00
41	TAF130136	235.1944	237.7303	235.8680	4.4341e-01	1.9184e+00
42	TAF120048	221.1391	223.6269	222.1362	5.7444e-01	1.9155e+00
43	TAF130048	229.0373	231.3993	229.9881	4.8848e-01	1.9172e+00
44	TAF120224	221.8465	224.2172	222.8937	4.6990e-01	1.9157e+00
45	TAF130224	232.1553	235.0949	233.5181	6.2595e-01	1.9179e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9880	2.1489e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7462	1.2232e-01	1.9011e+00
48	TAI130048	285.4636	286.1044	285.8200	1.3635e-01	1.9311e+00
49	TAI130136	288.8601	289.4997	289.2048	1.4463e-01	1.9321e+00
50	TAI130224	285.1505	285.7928	285.4763	1.5210e-01	1.9310e+00
51	TAI130312	284.7365	285.2868	284.9669	1.5780e-01	1.9309e+00
52	TRR130000	142.1679	145.0698	143.3688	7.7259e-01	1.9036e+00
53	TSI000001	42.5564	43.5359	42.9541	2.0659e-01	1.9005e+00
54	TSI000002	86.7578	88.8510	87.8262	5.3705e-01	1.9002e+00
55	TSO000001	40.5310	41.4052	40.9189	1.8688e-01	1.9006e+00
56	TSO000002	54.8544	55.8244	55.3095	2.2888e-01	1.9001e+00
57	TAF020136	109.1583	112.2681	110.4914	6.1583e-01	1.9011e+00
58	EMPTY	42.8139	43.5000	43.1033	2.5042e-01	1.9013e+00
59	TAF130312	236.5598	239.2835	237.6951	5.3715e-01	1.9189e+00
60	EMPTY	4.1406	4.1797	4.1572	7.3118e-03	0.0000e+00
61	EMPTY	4.1309	4.1553	4.1438	4.8369e-03	0.0000e+00
62	EMPTY	4.1260	4.1406	4.1328	3.5682e-03	0.0000e+00
63	EMPTY	4.1260	4.1357	4.1287	2.6485e-03	0.0000e+00
64	EMPTY	1.9287	1.9434	1.9319	2.9146e-03	0.0000e+00
65	EMPTY	1.9434	1.9482	1.9435	6.9754e-04	0.0000e+00
66	EMPTY	1.9482	1.9531	1.9492	1.9883e-03	0.0000e+00
67	EMPTY	1.9580	1.9629	1.9586	1.6172e-03	0.0000e+00
68	EMPTY	1.9629	1.9678	1.9637	1.8234e-03	0.0000e+00
69	EMPTY	1.9727	1.9775	1.9734	1.7263e-03	0.0000e+00
70	EMPTY	1.9775	1.9824	1.9818	1.6172e-03	0.0000e+00
71	EMPTY	1.9971	1.9971	1.9971	0.0000e+00	0.0000e+00
72	EMPTY	1.9971	2.0068	2.0021	1.2165e-03	0.0000e+00
73	EMPTY	2.0117	2.0166	2.0119	9.7615e-04	0.0000e+00
74	EMPTY	2.0166	2.0215	2.0210	1.4934e-03	0.0000e+00
75	EMPTY	2.0264	2.0313	2.0275	2.0584e-03	0.0000e+00
76	EMPTY	2.0313	2.0361	2.0355	1.6172e-03	0.0000e+00
77	EMPTY	2.0459	2.0508	2.0460	6.9754e-04	0.0000e+00
78	EMPTY	2.0605	2.0654	2.0606	6.9754e-04	0.0000e+00
79	EMPTY	2.0752	2.0801	2.0784	2.3483e-03	0.0000e+00
80	PAN020136	-18.1108	-13.9909	-17.2996	8.1915e-01	8.7107e-01
81	PAN050136	-34.1219	-31.8331	-32.4310	3.9501e-01	1.6820e+00
82	PAN070136	-22.9774	-13.2881	-20.7446	1.5002e+00	8.7154e-01
83	PAN080136	-14.1202	-3.3627	-10.8084	1.7820e+00	8.7042e-01
84	PAN090136	-13.3997	-5.7703	-10.1953	1.1794e+00	8.7037e-01
85	PAN100136	-12.9698	-10.2995	-11.0625	6.0796e-01	8.7044e-01
86	PAN105136	-5.7712	-3.9401	-4.7965	3.4483e-01	8.7008e-01
87	PAN110136	-6.3360	0.0727	-4.8895	1.0289e+00	8.7009e-01
88	PAN115136	-7.5700	-3.8316	-4.8981	7.6111e-01	8.7009e-01
89	PAN120136	-5.9369	-4.0295	-5.3188	3.4692e-01	8.7016e-01
90	PAN125136	-5.7124	-4.2629	-5.2095	2.8373e-01	8.7010e-01
91	PAN130136	-5.3515	-4.1308	-4.9902	2.6419e-01	8.7009e-01
92	PAN120048	-10.6473	-8.2822	-9.7536	4.4677e-01	8.7034e-01
93	PAN130048	-11.3794	-9.3195	-10.3533	3.4122e-01	8.7038e-01
94	PAN120224	-11.8444	-9.7845	-10.3793	3.5784e-01	8.7039e-01
95	PAN130224	-11.0096	-8.3393	-9.9680	4.3398e-01	8.7036e-01
96	PAN120312	-11.4204	-9.5131	-10.3414	3.6156e-01	8.7038e-01
97	PAN130312	-10.8526	-9.4030	-10.1597	3.3030e-01	8.7037e-01
98	PAB000136	40.1445	40.2819	40.2127	1.1916e-02	5.8865e-01
99	PAB100136	43.7987	44.0276	43.8828	4.7962e-02	5.9028e-01
100	PAB125136	44.7961	44.9792	44.8942	4.7646e-02	5.9076e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8567	40.1008	39.9738	3.4877e-02	7.5663e-01
102	PRV000001	15.5319	15.6539	15.5368	2.4404e-02	7.5101e-01
103	PSR000001	45.1035	45.2255	45.2106	4.0430e-02	7.5847e-01
104	PFM000001	1.6373	1.9120	1.7812	7.2379e-02	5.0002e-01
105	PAN000136	-135.0660	-132.7772	-133.5152	3.9441e-01	4.9313e+00
106	PFM000002	1.7645	1.8484	1.8100	1.9376e-02	2.0005e-01
107	EMPTY	-0.0049	0.0000	-0.0046	1.1827e-03	0.0000e+00
108	EMPTY	-10.0000	-3.8672	-5.3211	1.5654e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0020	2.4247e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0003	1.1827e-03	0.0000e+00
112	VPW000001	101.9231	102.7043	102.2937	1.8804e-01	1.0163e+00
113	VPW000002	119.1293	119.5200	119.3925	1.0204e-01	1.0813e+00
114	VPW000003	147.2206	147.8065	147.5155	1.2041e-01	1.1998e+00
115	VPW000004	105.0255	105.6115	105.2966	1.3705e-01	1.0273e+00
116	VPW000005	139.3329	139.9189	139.6239	1.2684e-01	1.1653e+00
117	VPW000006	145.9322	146.5182	146.1833	1.6438e-01	1.1939e+00
118	IPW000001	555.4420	559.3466	557.0356	1.3616e+00	9.2182e+00
119	IPW000002	1293.2413	1299.0951	1295.8696	1.7155e+00	1.3054e+01
120	IPW000003	1312.0875	1315.9875	1313.7191	1.2169e+00	1.3165e+01
121	IPW000004	376.2583	378.2114	376.9357	4.4369e-01	3.5871e+00
122	IPW000005	252.5194	253.9841	253.1771	3.6687e-01	2.8285e+00
123	IPW000006	264.7705	266.7236	265.9165	5.2316e-01	2.9005e+00
124	EMPTY	-0.0293	-0.0146	-0.0224	3.7184e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0147	3.3785e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0191	2.6061e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0146	-0.0169	2.4621e-03	0.0000e+00
128	IHT000001	130.6453	133.1843	131.7574	5.8486e-01	4.3065e+00
129	IHT000002	130.2359	132.1890	131.2284	5.1496e-01	4.3049e+00
130	IHT000003	128.9175	131.2613	130.1771	5.4089e-01	4.3017e+00
131	IHT000004	131.1035	133.4473	132.3591	5.1675e-01	4.3084e+00
132	IHT000005	129.2480	131.7871	130.5315	5.2286e-01	4.3028e+00
133	IHT000006	125.0000	127.5390	126.2596	5.2599e-01	4.2900e+00
134	IHT000007	131.5618	133.7102	132.6419	4.9811e-01	4.3092e+00
135	IHT000008	130.2246	132.5683	131.3845	5.2952e-01	4.3054e+00
136	IHT000009	129.6800	132.0237	130.9276	5.2410e-01	4.3040e+00
137	IHT000010	130.3110	132.4594	131.2756	4.9701e-01	4.3050e+00
138	IHT000011	131.2162	133.7553	132.2327	5.4223e-01	4.3080e+00
139	IHT000012	130.1871	132.9214	131.2911	5.7850e-01	4.3051e+00
140	IHT000013	91.5978	94.3322	92.8893	5.3905e-01	4.2039e+00
141	IHT000014	127.0771	129.8114	128.3885	5.4226e-01	4.2963e+00
142	IHT000015	94.5237	96.8675	95.5242	5.4756e-01	4.2098e+00
143	IHT000016	88.2812	90.8203	89.5886	5.4548e-01	4.1967e+00
144	IHT000017	104.2706	106.6143	105.2551	5.2280e-01	4.2329e+00
145	IHT000018	106.5881	109.3224	107.7559	6.0789e-01	4.2392e+00
146	IHT000019	107.4407	109.7844	108.3255	5.4679e-01	4.2407e+00
147	IHT000020	105.4086	108.1430	106.5008	5.6652e-01	4.2361e+00
148	IHT000021	-2.8208	-0.0864	-1.7685	6.6571e-01	4.1000e+00
149	IHT000022	92.3603	94.7040	93.1455	5.7842e-01	4.2045e+00
150	IHT000023	105.0180	107.1665	105.8033	5.0032e-01	4.2343e+00
151	IHT000024	70.1623	72.1154	70.9037	4.4570e-01	4.1609e+00
152	IHT000025	102.4114	104.1692	103.1368	4.5631e-01	4.2277e+00
153	IHT000026	105.0894	106.8472	105.8228	4.6070e-01	4.2344e+00
154	IHT000027	89.6146	91.3725	90.6231	4.6038e-01	4.1990e+00
155	IHT000028	90.2231	93.1528	91.5026	5.6951e-01	4.2009e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2472	108.5675	106.7458	6.2960e-01	4.2367e+00
157	IHT000030	107.9365	110.8661	109.1123	5.8795e-01	4.2427e+00
158	IHT000031	105.6265	108.7515	107.0694	5.9910e-01	4.2375e+00
159	IHT000032	106.6481	109.5778	108.1070	6.0869e-01	4.2401e+00
160	IHT000033	106.4453	109.5703	108.0557	6.1960e-01	4.2400e+00
161	IHT000034	93.5247	95.6731	94.7483	4.7471e-01	4.2081e+00
162	IHT000035	123.3398	125.4883	124.5476	4.5748e-01	4.2850e+00
163	IHT000036	92.3941	94.3472	93.4503	4.1608e-01	4.2052e+00

Velocity 1 = 0.010000 (ft/sec)
 Velocity 2 = 0.002600 (ft/sec)
 Pressure Drop = 0.018800 (psi)
 Tsat in = 0.060394 (deg F) Tsat out = 0.045502 (deg F)
 Phi inner = 0.078697 (kBtu/hr-ft2) Phi outer = 0.001099 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.2114	0.2820
1	TRF000002	0.1574	0.2086
2	TFM000001	2.1474	2.4543
3	TIN000001	2.0584	2.3499
4	TRV000001	2.5667	2.8875
5	TSR000001	0.4840	0.2950
6	EMPTY	0.0737	0.1920
7	TAO050136	0.9400	0.4246
8	TAO070136	1.0337	0.4425
9	TAO080136	1.0184	0.4240
10	TAO090136	1.4234	0.6936
11	TAO100136	1.0201	0.3938
12	TAO105136	1.3082	0.4942
13	EMPTY	0.0000	0.0000
14	TAO115136	0.9485	0.3386
15	EMPTY	1.0393	2.6552
16	TAO125136	0.9397	0.3194
17	EMPTY	0.0497	0.1098
18	EMPTY	0.0546	0.1313
19	TAO130048	0.9858	0.3649
20	TAO120224	1.1347	0.4067
21	EMPTY	0.0435	0.1100
22	TAO120312	1.0501	0.3686
23	TAO130312	1.1738	0.4289
24	EMPTY	0.0580	0.1470
25	TRT070000	0.2108	0.0925
26	TRT100000	1.0413	0.3831
27	TRT120000	0.9130	0.3255
28	TRT125000	1.0462	0.3696
29	EMPTY	0.0136	0.0339
30	EMPTY	0.0314	0.0791
31	TAF050136	1.4961	1.0234
32	TAF070136	1.4003	0.8488
33	TAF080136	1.6608	0.9501
34	TAF090136	1.5387	0.8362
35	TAF100136	2.6116	1.3199
36	TAF105136	1.8654	0.9096
37	TAF110136	1.8809	0.8663
38	TAF115136	1.5550	0.7054
39	TAF120136	1.6235	0.7169
40	TAF125136	1.4961	0.6441
41	TAF130136	1.3702	0.5776
42	TAF120048	1.4388	0.6435
43	TAF130048	1.3806	0.5967
44	TAF120224	1.1787	0.5260
45	TAF130224	1.0884	0.4639

#	Name	Abs Diff	%Diff
46	EMPTY	0.0048	0.0126
47	EMPTY	0.0304	0.0765
48	TAI130048	1.0626	0.3704
49	TAI130136	0.7910	0.2728
50	TAI130224	0.7934	0.2772
51	TAI130312	1.1700	0.4089
52	TRR130000	2.0031	1.4170
53	TSI000001	0.3061	0.7076
54	TSI000002	1.1063	1.2757
55	TSO000001	0.4093	0.9904
56	TSO000002	0.4150	0.7447
57	TAF020136	1.7109	1.5248
58	EMPTY	0.0674	0.1561
59	TAF130312	1.4676	0.6136
60	EMPTY	0.0419	0.9978
61	EMPTY	0.0421	1.0058
62	EMPTY	0.0415	0.9942
63	EMPTY	0.0406	0.9738
64	EMPTY	0.0172	0.8825
65	EMPTY	0.0177	0.9025
66	EMPTY	0.0185	0.9402
67	EMPTY	0.0186	0.9407
68	EMPTY	0.0185	0.9333
69	EMPTY	0.0186	0.9337
70	EMPTY	0.0163	0.8158
71	EMPTY	0.0176	0.8736
72	EMPTY	0.0185	0.9156
73	EMPTY	0.0191	0.9404
74	EMPTY	0.0152	0.7465
75	EMPTY	0.0185	0.9042
76	EMPTY	0.0158	0.7702
77	EMPTY	0.0190	0.9201
78	EMPTY	0.0180	0.8660
79	EMPTY	0.0164	0.7829
80	PAN020136	0.0463	0.2684
81	PAN050136	0.1585	0.4911
82	PAN070136	0.0026	0.0125
83	PAN080136	0.3168	3.0196
84	PAN090136	0.1465	1.4579
85	PAN100136	0.2518	2.3292
86	PAN105136	0.0774	1.5880
87	PAN110136	0.2137	4.5703
88	PAN115136	0.1603	3.1690
89	PAN120136	0.0258	0.4874
90	PAN125136	0.0937	1.8316
91	PAN130136	0.0919	1.8762
92	PAN120048	0.1872	1.8831
93	PAN130048	0.1168	1.1410
94	PAN120224	0.1294	1.2625
95	PAN130224	0.0616	0.6218
96	PAN120312	0.0303	0.2939
97	PAN130312	0.0868	0.8617
98	PAB000136	0.0408	0.1014
99	PAB100136	0.0120	0.0273
100	PAB125136	0.0338	0.0752

#	Name	Abs Diff	%Diff
101	PIN000001	0.1246	0.3107
102	PRV000001	0.0342	0.2206
103	PSR000001	0.0150	0.0332
104	PFM000001	0.0099	0.5527
105	PAN000136	0.5183	0.3897
106	PFM000002	0.0021	0.1159
107	EMPTY	0.0021	84.0000
108	EMPTY	0.0512	0.9716
109	EMPTY	0.0009	81.8182
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0010	76.9231
112	VPW000001	0.1411	0.1377
113	VPW000002	0.0689	0.0577
114	VPW000003	0.0527	0.0357
115	VPW000004	0.0133	0.0126
116	VPW000005	0.1739	0.1244
117	VPW000006	0.0067	0.0046
118	IPW000001	2.0622	0.3716
119	IPW000002	1.0278	0.0794
120	IPW000003	2.0737	0.1576
121	IPW000004	0.3770	0.0999
122	IPW000005	0.6021	0.2373
123	IPW000006	0.3745	0.1410
124	EMPTY	0.0015	7.1770
125	EMPTY	0.0006	4.2553
126	EMPTY	0.0015	8.5227
127	EMPTY	0.0004	2.3121
128	IHT000001	0.0755	0.0573
129	IHT000002	0.0121	0.0092
130	IHT000003	0.0291	0.0224
131	IHT000004	0.0603	0.0456
132	IHT000005	0.0257	0.0197
133	IHT000006	0.0955	0.0757
134	IHT000007	0.1193	0.0900
135	IHT000008	0.0388	0.0295
136	IHT000009	0.0249	0.0190
137	IHT000010	0.0036	0.0027
138	IHT000011	0.0500	0.0378
139	IHT000012	0.0639	0.0486
140	IHT000013	0.0640	0.0689
141	IHT000014	0.2003	0.1558
142	IHT000015	0.0034	0.0036
143	IHT000016	0.0755	0.0842
144	IHT000017	1.2303	1.1554
145	IHT000018	0.1798	0.1666
146	IHT000019	0.2128	0.1961
147	IHT000020	0.2477	0.2320
148	IHT000021	0.1977	12.5859
149	IHT000022	0.2031	0.2176
150	IHT000023	0.1835	0.1731
151	IHT000024	0.1531	0.2155
152	IHT000025	0.1808	0.1750
153	IHT000026	0.1884	0.1777
154	IHT000027	0.2025	0.2230
155	IHT000028	0.3065	0.3338

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#	Name	Abs Diff	%Diff
156	IHT000029	0.3294	0.3076
157	IHT000030	0.3750	0.3425
158	IHT000031	0.3227	0.3005
159	IHT000032	0.3614	0.3332
160	IHT000033	0.3701	0.3413
161	IHT000034	0.2294	0.2415
162	IHT000035	0.3860	0.3090
163	IHT000036	0.1899	0.2028

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Velocity 1 = 3.0227 (ft/sec) (+/- 18.7939 %)

Velocity 2 = 3.0226 (ft/sec) (+/- 7.5014 %)

Pressure drop = -4.9636 (psi)

Tsat in = 267.6204 (deg F) Tsat out = 274.5119 (deg F)

Phi inner = 99.0216 (kBtu/hr-ft2) (+/- 1.5741 %)

Phi outer = 100.0921 (kBtu/hr-ft2) (+/- 1.5529 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8162	75.4540	75.3052	1.6773e-01	1.9000e+00
1	TRF000002	75.5686	75.9915	75.7377	1.4797e-01	1.9000e+00
2	TFM000001	84.7480	85.4828	85.1111	1.9465e-01	1.9002e+00
3	TIN000001	84.7306	85.4667	85.0945	1.5359e-01	1.9002e+00
4	TRV000001	86.0171	86.9603	86.5014	2.1366e-01	1.9002e+00
5	TSR000001	152.6887	164.7559	157.9741	3.3524e+00	1.9052e+00
6	EMPTY	37.9974	38.9168	38.4664	2.4108e-01	1.9010e+00
7	TAO050136	230.7858	231.6352	231.2412	1.9673e-01	1.9174e+00
8	TAO070136	242.8036	243.7451	243.2012	2.2365e-01	1.9201e+00
9	TAO080136	250.5081	251.2514	250.8661	1.8889e-01	1.9219e+00
10	TAO090136	210.1083	211.1609	210.5813	2.2320e-01	1.9133e+00
11	TAO100136	271.0229	272.2217	271.7959	2.5115e-01	1.9272e+00
12	TAO105136	275.9076	277.0116	276.4617	2.7272e-01	1.9285e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	291.1682	292.4489	291.7300	2.4602e-01	1.9328e+00
15	EMPTY	31.7686	43.0426	39.7690	3.5406e+00	1.9011e+00
16	TAO125136	301.1608	302.4259	301.9432	2.5615e-01	1.9359e+00
17	EMPTY	44.8706	45.5552	45.2312	1.9608e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5914	1.2766e-01	1.9012e+00
19	TAO130048	282.3216	283.7822	282.9917	3.4639e-01	1.9303e+00
20	TAO120224	289.1199	291.1285	290.4914	3.6395e-01	1.9325e+00
21	EMPTY	39.3761	40.0646	39.6148	1.4635e-01	1.9011e+00
22	TAO120312	297.0505	298.4158	297.7804	3.0298e-01	1.9346e+00
23	TAO130312	285.3129	286.5914	285.7753	2.7941e-01	1.9311e+00
24	EMPTY	39.1464	39.8352	39.5230	1.6568e-01	1.9011e+00
25	TRT070000	233.9808	238.8186	235.9078	1.2068e+00	1.9185e+00
26	TRT100000	289.5350	290.7208	290.2341	2.5829e-01	1.9324e+00
27	TRT120000	295.4218	296.1499	295.8860	1.7754e-01	1.9341e+00
28	TRT125000	295.5677	296.3834	296.0483	1.9323e-01	1.9341e+00
29	EMPTY	39.8352	40.2940	40.1105	1.0364e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6607	1.8871e-01	1.9011e+00
31	TAF050136	152.5965	155.2776	153.8143	5.5966e-01	1.9047e+00
32	TAF070136	173.7640	177.1768	175.2363	6.5749e-01	1.9074e+00
33	TAF080136	185.4810	187.5103	186.5188	5.4025e-01	1.9091e+00
34	TAF090136	196.4139	198.6334	197.8749	4.8112e-01	1.9110e+00
35	TAF100136	212.1049	214.2112	213.2215	5.1707e-01	1.9138e+00
36	TAF105136	221.7818	223.5731	222.6142	4.1984e-01	1.9156e+00
37	TAF110136	232.3591	234.7995	233.4466	5.5927e-01	1.9179e+00
38	TAF115136	239.9422	242.6591	241.2863	6.8566e-01	1.9197e+00
39	TAF120136	246.2689	249.0595	247.4516	6.1645e-01	1.9211e+00
40	TAF125136	254.5500	256.7692	255.7060	4.2079e-01	1.9231e+00
41	TAF130136	262.5981	264.6310	263.4760	4.7355e-01	1.9251e+00
42	TAF120048	239.8915	242.4438	241.0137	6.1020e-01	1.9196e+00
43	TAF130048	249.1454	252.0379	250.5249	5.3596e-01	1.9218e+00
44	TAF120224	240.8056	242.9618	241.8916	4.9916e-01	1.9198e+00
45	TAF130224	251.4962	253.3714	252.6568	4.2242e-01	1.9223e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	38.0020	1.8284e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8168	9.0861e-02	1.9011e+00
48	TAI130048	298.3185	299.0456	298.6622	1.6658e-01	1.9349e+00
49	TAI130136	301.1973	301.9205	301.5610	1.5902e-01	1.9358e+00
50	TAI130224	295.2155	295.9447	295.6404	1.6533e-01	1.9340e+00
51	TAI130312	297.2519	297.9799	297.6725	1.7815e-01	1.9346e+00
52	TRR130000	143.8697	146.3673	145.3109	5.2456e-01	1.9038e+00
53	TSI000001	42.2320	42.9927	42.6383	1.9625e-01	1.9005e+00
54	TSI000002	92.6081	94.3799	93.5987	3.4668e-01	1.9004e+00
55	TSO000001	39.9811	40.9665	40.5313	2.3960e-01	1.9006e+00
56	TSO000002	55.7163	56.5775	56.1533	2.2959e-01	1.9001e+00
57	TAF020136	113.0949	115.5769	114.2676	5.8353e-01	1.9013e+00
58	EMPTY	42.8139	43.5000	43.1158	2.4203e-01	1.9013e+00
59	TAF130312	258.3114	259.9810	259.1859	4.7280e-01	1.9240e+00
60	EMPTY	4.6973	4.7217	4.7105	6.6204e-03	0.0000e+00
61	EMPTY	4.6826	4.7021	4.6925	6.0401e-03	0.0000e+00
62	EMPTY	4.6680	4.6875	4.6765	6.0658e-03	0.0000e+00
63	EMPTY	4.6582	4.6777	4.6675	5.1496e-03	0.0000e+00
64	EMPTY	2.1631	2.1777	2.1697	3.2359e-03	0.0000e+00
65	EMPTY	2.1729	2.1826	2.1793	2.6908e-03	0.0000e+00
66	EMPTY	2.1777	2.1924	2.1851	3.3087e-03	0.0000e+00
67	EMPTY	2.1875	2.1973	2.1920	3.3944e-03	0.0000e+00
68	EMPTY	2.1924	2.2021	2.1952	3.5691e-03	0.0000e+00
69	EMPTY	2.2021	2.2070	2.2036	2.2603e-03	0.0000e+00
70	EMPTY	2.2070	2.2168	2.2090	2.7902e-03	0.0000e+00
71	EMPTY	2.2217	2.2314	2.2233	2.5362e-03	0.0000e+00
72	EMPTY	2.2266	2.2363	2.2277	2.3261e-03	0.0000e+00
73	EMPTY	2.2363	2.2412	2.2372	1.8950e-03	0.0000e+00
74	EMPTY	2.2412	2.2461	2.2422	1.9730e-03	0.0000e+00
75	EMPTY	2.2461	2.2559	2.2495	2.4662e-03	0.0000e+00
76	EMPTY	2.2510	2.2607	2.2548	2.2689e-03	0.0000e+00
77	EMPTY	2.2607	2.2705	2.2652	1.6624e-03	0.0000e+00
78	EMPTY	2.2754	2.2803	2.2779	2.4642e-03	0.0000e+00
79	EMPTY	2.2900	2.2998	2.2941	2.0598e-03	0.0000e+00
80	PAN020136	-17.3479	-14.7539	-16.7238	6.2719e-01	8.7100e-01
81	PAN050136	-32.9012	-31.5279	-32.2848	3.1432e-01	1.6819e+00
82	PAN070136	-18.9338	-17.7131	-18.3616	3.3104e-01	8.7121e-01
83	PAN080136	-12.2891	-10.9921	-11.6635	3.1626e-01	8.7049e-01
84	PAN090136	-11.4923	-10.0427	-10.7401	3.7535e-01	8.7041e-01
85	PAN100136	-10.7573	-7.3241	-8.7233	7.6132e-01	8.7027e-01
86	PAN105136	-6.3052	-6.0000	-6.1358	5.1791e-02	8.7014e-01
87	PAN110136	-2.0635	-0.0799	-0.9649	4.4965e-01	8.7000e-01
88	PAN115136	-7.6463	-7.4937	-7.5486	5.3484e-02	8.7020e-01
89	PAN120136	-7.0050	-0.7489	-4.0234	1.4155e+00	8.7006e-01
90	PAN125136	-6.0939	-3.4999	-5.5538	6.4034e-01	8.7011e-01
91	PAN130136	-5.8855	-0.1635	-3.0047	1.4415e+00	8.7003e-01
92	PAN120048	-11.9443	-0.9580	-8.046	3.0119e+00	8.7022e-01
93	PAN130048	-10.0824	-5.8099	-8.1934	9.7333e-01	8.7024e-01
94	PAN120224	-13.0651	-7.0379	-9.6990	1.4887e+00	8.7034e-01
95	PAN130224	-10.6281	-5.6690	-8.6475	1.2734e+00	8.7027e-01
96	PAN120312	-11.3441	-3.4095	-7.6317	1.9477e+00	8.7021e-01
97	PAN130312	-12.6074	-8.8690	-10.4986	9.2876e-01	8.7040e-01
98	PAB000136	40.0530	40.3276	40.1693	5.7167e-02	5.8863e-01
99	PAB100136	43.5240	43.8445	43.6843	6.0821e-02	5.9019e-01
100	PAB125136	44.9335	45.2081	45.0488	7.4699e-02	5.9083e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7346	40.1008	39.9641	1.0929e-01	7.5663e-01
102	PRV000001	15.5319	15.6539	15.5416	3.3453e-02	7.5101e-01
103	PSR000001	45.2255	45.3476	45.2280	1.7263e-02	7.5848e-01
104	PFM000001	1.2711	1.4542	1.3535	7.2231e-02	5.0001e-01
105	PAN000136	-140.5591	-132.3194	-137.4189	1.9575e+00	4.9320e+00
106	PFM000002	1.3282	1.4121	1.3534	2.4969e-02	2.0003e-01
107	EMPTY	-0.0049	0.0049	-0.0034	3.0003e-03	0.0000e+00
108	EMPTY	-10.0000	-3.9063	-5.3395	1.3586e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0022	2.6488e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0016	2.3008e-03	0.0000e+00
112	VPW000001	102.1184	102.7043	102.4074	1.8185e-01	1.0167e+00
113	VPW000002	119.1293	119.7153	119.4380	1.1897e-01	1.0815e+00
114	VPW000003	147.2206	147.8065	147.4862	1.3532e-01	1.1997e+00
115	VPW000004	105.0255	105.4162	105.2833	1.2750e-01	1.0272e+00
116	VPW000005	139.5282	140.1142	139.7783	1.5303e-01	1.1660e+00
117	VPW000006	146.1275	146.7135	146.3658	1.8207e-01	1.1947e+00
118	IPW000001	561.2990	569.1083	563.7198	1.9941e+00	9.2435e+00
119	IPW000002	1267.8748	1283.4850	1275.3291	4.8392e+00	1.2927e+01
120	IPW000003	1298.4375	1306.2375	1302.9222	2.0939e+00	1.3098e+01
121	IPW000004	376.7466	379.6763	378.3381	7.6926e-01	3.5963e+00
122	IPW000005	252.0312	253.9841	253.1054	4.2996e-01	2.8281e+00
123	IPW000006	263.3057	265.2588	264.3018	4.7269e-01	2.8913e+00
124	EMPTY	-0.0293	-0.0098	-0.0203	3.8662e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0144	3.0261e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0165	3.8066e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0174	3.7121e-03	0.0000e+00
128	IHT000001	130.8406	133.1843	131.7469	5.8095e-01	4.3065e+00
129	IHT000002	130.2359	132.5796	131.1734	5.7453e-01	4.3047e+00
130	IHT000003	128.9175	131.6519	130.1402	5.7156e-01	4.3016e+00
131	IHT000004	130.9082	133.8379	132.3105	5.8486e-01	4.3082e+00
132	IHT000005	129.2480	131.9824	130.5176	5.7079e-01	4.3027e+00
133	IHT000006	125.0000	127.5390	126.1719	5.5524e-01	4.2897e+00
134	IHT000007	131.5618	134.1008	132.5578	6.0650e-01	4.3090e+00
135	IHT000008	130.2246	132.9590	131.3105	6.0510e-01	4.3051e+00
136	IHT000009	129.6800	132.2190	130.8558	5.8858e-01	4.3038e+00
137	IHT000010	129.7251	132.0688	131.2134	5.1884e-01	4.3048e+00
138	IHT000011	130.6303	133.1693	132.2749	4.9299e-01	4.3081e+00
139	IHT000012	129.6011	132.3355	131.3316	5.2201e-01	4.3052e+00
140	IHT000013	91.0119	93.7463	92.7736	5.0144e-01	4.2037e+00
141	IHT000014	126.6865	129.2255	128.4091	4.9707e-01	4.2964e+00
142	IHT000015	93.9378	96.2815	95.4417	4.6059e-01	4.2096e+00
143	IHT000016	88.0859	90.6250	89.6133	5.0485e-01	4.1968e+00
144	IHT000017	104.6612	108.1768	106.6221	8.4994e-01	4.2364e+00
145	IHT000018	106.1974	109.3224	107.8849	5.7013e-01	4.2396e+00
146	IHT000019	107.4407	109.3938	108.4172	4.8327e-01	4.2409e+00
147	IHT000020	105.7993	107.7524	106.6118	4.6246e-01	4.2363e+00
148	IHT000021	-2.6255	-0.4770	-1.5669	5.8273e-01	4.1000e+00
149	IHT000022	92.3603	94.5087	93.2822	5.2056e-01	4.2048e+00
150	IHT000023	104.8227	106.7758	105.8813	4.7693e-01	4.2345e+00
151	IHT000024	69.9670	71.7248	70.9709	4.4118e-01	4.1610e+00
152	IHT000025	102.4114	103.9739	103.2394	4.4566e-01	4.2280e+00
153	IHT000026	105.0894	106.8472	105.9097	4.2315e-01	4.2346e+00
154	IHT000027	89.8100	92.1537	90.7866	4.9126e-01	4.1993e+00
155	IHT000028	90.4184	93.1528	91.7231	6.7363e-01	4.2013e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6378	108.3722	107.0010	6.9976e-01	4.2373e+00
157	IHT000030	107.9365	110.8661	109.4052	6.3041e-01	4.2435e+00
158	IHT000031	106.0171	108.5562	107.3413	6.0784e-01	4.2382e+00
159	IHT000032	107.0388	109.9685	108.3903	6.4215e-01	4.2409e+00
160	IHT000033	107.0313	109.9609	108.3203	6.4718e-01	4.2407e+00
161	IHT000034	93.7200	96.4543	94.9387	5.4471e-01	4.2085e+00
162	IHT000035	123.7305	126.4648	124.8359	5.6305e-01	4.2858e+00
163	IHT000036	92.3941	95.1285	93.6050	5.0378e-01	4.2055e+00

Velocity 1 = 2.9463 (ft/sec) (+/- 19.7746 %)
 Velocity 2 = 2.9818 (ft/sec) (+/- 7.6683 %)
 Pressure drop = -4.9427 (psi)
 Tsat in = 267.7971 (deg F) Tsat out = 274.7500 (deg F)
 Phi inner = 100.3043 (kBtu/hr-ft2) (+/- 1.5708 %)
 Phi outer = 100.5606 (kBtu/hr-ft2) (+/- 1.5527 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.0288	75.6666	75.4280	1.8219e-01	1.9000e+00
1	TRF000002	75.7801	76.2028	75.9224	1.4562e-01	1.9000e+00
2	TFM000001	83.5937	84.6444	84.0698	2.3886e-01	1.9001e+00
3	TIN000001	83.7827	84.4143	84.0879	1.5385e-01	1.9001e+00
4	TRV000001	85.2849	86.0194	85.6703	2.0126e-01	1.9002e+00
5	TSR000001	158.2430	162.5876	160.7669	1.0383e+00	1.9055e+00
6	EMPTY	37.9974	38.9168	38.4384	2.2906e-01	1.9010e+00
7	TAO050136	232.1036	232.9522	232.5713	2.1656e-01	1.9177e+00
8	TAO070136	244.0280	245.2515	244.6145	2.4920e-01	1.9204e+00
9	TAO080136	252.3632	253.1073	252.6821	1.8484e-01	1.9224e+00
10	TAO090136	214.6924	215.5512	215.1364	1.9915e-01	1.9141e+00
11	TAO100136	273.6021	274.5233	273.9539	2.0984e-01	1.9278e+00
12	TAO105136	277.7462	278.9409	278.4123	2.9744e-01	1.9290e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	291.3502	292.3573	291.7989	2.2356e-01	1.9329e+00
15	EMPTY	31.5371	42.5851	39.2298	3.3220e+00	1.9010e+00
16	TAO125136	300.1672	301.4339	300.7470	2.7195e-01	1.9355e+00
17	EMPTY	44.8706	45.5552	45.2805	1.7414e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5712	1.3225e-01	1.9012e+00
19	TAO130048	282.0480	283.6917	282.9501	4.8254e-01	1.9303e+00
20	TAO120224	289.7593	291.3111	290.3891	3.4109e-01	1.9324e+00
21	EMPTY	39.3761	40.0646	39.6385	1.4817e-01	1.9011e+00
22	TAO120312	296.9588	298.1424	297.5257	2.8926e-01	1.9346e+00
23	TAO130312	284.9478	285.8611	285.4090	2.2609e-01	1.9310e+00
24	EMPTY	39.1464	39.8352	39.5869	1.7430e-01	1.9011e+00
25	TRT070000	237.3962	240.6176	239.0547	7.5277e-01	1.9192e+00
26	TRT100000	291.4489	292.2690	291.7688	1.9602e-01	1.9328e+00
27	TRT120000	295.5126	296.3320	295.9271	2.0358e-01	1.9341e+00
28	TRT125000	295.1160	295.8424	295.4999	1.5950e-01	1.9340e+00
29	EMPTY	40.0646	40.2940	40.1208	9.9674e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6900	2.0258e-01	1.9011e+00
31	TAF050136	153.0940	155.5762	154.2145	6.1546e-01	1.9048e+00
32	TAF070136	174.6413	177.9552	176.1625	7.1129e-01	1.9076e+00
33	TAF080136	186.4505	188.6681	187.5401	4.9482e-01	1.9093e+00
34	TAF090136	197.6683	199.9831	199.0798	5.3820e-01	1.9112e+00
35	TAF100136	213.9240	215.6460	214.8749	3.9893e-01	1.9141e+00
36	TAF105136	223.3844	225.7360	224.4273	4.8149e-01	1.9160e+00
37	TAF110136	233.2993	239.2024	234.8079	9.2614e-01	1.9182e+00
38	TAF115136	242.1917	244.4366	243.5543	5.5037e-01	1.9202e+00
39	TAF120136	249.2448	251.7524	250.4350	4.6826e-01	1.9218e+00
40	TAF125136	257.9682	260.5515	259.2682	5.7013e-01	1.9240e+00
41	TAF130136	266.6613	270.1622	267.9047	6.5194e-01	1.9262e+00
42	TAF120048	240.9302	243.5783	242.1624	6.3268e-01	1.9199e+00
43	TAF130048	250.9186	253.3429	251.9503	4.9890e-01	1.9222e+00
44	TAF120224	243.0549	245.2076	244.1059	4.7573e-01	1.9203e+00
45	TAF130224	254.2129	256.0838	255.1798	4.1335e-01	1.9230e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9223	1.7175e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7275	1.3335e-01	1.9011e+00
48	TAI130048	297.8640	298.7733	298.3560	2.4259e-01	1.9348e+00
49	TAI130136	301.1969	302.1933	301.8235	2.4155e-01	1.9359e+00
50	TAI130224	296.5833	297.4040	297.0503	1.9745e-01	1.9344e+00
51	TAI130312	297.2518	298.1620	297.7459	2.0270e-01	1.9346e+00
52	TRR130000	137.8549	142.7709	140.2543	1.3922e+00	1.9033e+00
53	TSI000001	42.3400	43.1020	42.6891	1.7195e-01	1.9005e+00
54	TSI000002	87.2813	89.8966	88.7447	6.7562e-01	1.9002e+00
55	TSO000001	40.0906	41.0758	40.5776	1.8155e-01	1.9006e+00
56	TSO000002	55.9311	56.9002	56.3379	2.2653e-01	1.9001e+00
57	TAF020136	113.0925	116.0911	114.4445	6.9114e-01	1.9013e+00
58	EMPTY	42.5851	43.5000	43.0659	2.5675e-01	1.9012e+00
59	TAF130312	260.0737	262.1118	261.0078	4.7106e-01	1.9244e+00
60	EMPTY	4.7461	4.7656	4.7557	5.8931e-03	0.0000e+00
61	EMPTY	4.7314	4.7461	4.7380	3.6690e-03	0.0000e+00
62	EMPTY	4.7168	4.7314	4.7232	3.1838e-03	0.0000e+00
63	EMPTY	4.7119	4.7217	4.7146	2.6485e-03	0.0000e+00
64	EMPTY	2.1875	2.1973	2.1923	1.2165e-03	0.0000e+00
65	EMPTY	2.1924	2.2021	2.2017	1.6787e-03	0.0000e+00
66	EMPTY	2.2070	2.2070	2.2070	0.0000e+00	0.0000e+00
67	EMPTY	2.2119	2.2168	2.2148	2.4247e-03	0.0000e+00
68	EMPTY	2.2168	2.2217	2.2179	2.0584e-03	0.0000e+00
69	EMPTY	2.2266	2.2363	2.2268	1.3951e-03	0.0000e+00
70	EMPTY	2.2314	2.2363	2.2316	9.7615e-04	0.0000e+00
71	EMPTY	2.2412	2.2461	2.2460	6.9754e-04	0.0000e+00
72	EMPTY	2.2461	2.2559	2.2510	9.9670e-04	0.0000e+00
73	EMPTY	2.2559	2.2607	2.2605	9.7615e-04	0.0000e+00
74	EMPTY	2.2607	2.2656	2.2655	6.9754e-04	0.0000e+00
75	EMPTY	2.2705	2.2754	2.2708	1.1827e-03	0.0000e+00
76	EMPTY	2.2754	2.2803	2.2763	1.9103e-03	0.0000e+00
77	EMPTY	2.2852	2.2900	2.2867	2.2737e-03	0.0000e+00
78	EMPTY	2.2998	2.3047	2.2999	6.9754e-04	0.0000e+00
79	EMPTY	2.3145	2.3242	2.3152	1.9934e-03	0.0000e+00
80	PAN020136	-17.6530	-14.6013	-16.3654	8.3353e-01	8.7096e-01
81	PAN050136	-33.6641	-32.5960	-32.9791	2.6996e-01	1.6820e+00
82	PAN070136	-18.4761	-16.6450	-17.3768	3.7793e-01	8.7108e-01
83	PAN080136	-12.8995	-10.9158	-11.9808	4.1378e-01	8.7052e-01
84	PAN090136	-12.2552	-10.9582	-11.5686	3.2926e-01	8.7048e-01
85	PAN100136	-10.3758	-8.1633	-9.1551	5.5499e-01	8.7030e-01
86	PAN105136	-6.2289	-6.0763	-6.1495	5.1555e-02	8.7014e-01
87	PAN110136	-1.8347	0.0727	-0.9051	4.9264e-01	8.7000e-01
88	PAN115136	-7.6463	-7.4937	-7.5606	5.0781e-02	8.7021e-01
89	PAN120136	-5.8606	-0.3674	-3.5453	1.3677e+00	8.7005e-01
90	PAN125136	-6.0939	-3.9577	-5.6548	6.3404e-01	8.7011e-01
91	PAN130136	-5.0463	1.2861	-1.9027	1.6607e+00	8.7001e-01
92	PAN120048	-12.0969	-8.0533	-10.1693	1.0206e+00	8.7037e-01
93	PAN130048	-10.2350	-4.1315	-8.3214	1.3809e+00	8.7025e-01
94	PAN120224	-13.0651	-5.5120	-9.5291	1.4682e+00	8.7033e-01
95	PAN130224	-9.7889	-6.1268	-8.2116	9.5918e-01	8.7024e-01
96	PAN120312	-12.4885	-3.6384	-8.9105	1.7641e+00	8.7029e-01
97	PAN130312	-11.5393	-7.1142	-9.7471	1.0484e+00	8.7034e-01
98	PAB000136	40.1445	40.4650	40.2884	7.1162e-02	5.8868e-01
99	PAB100136	43.6156	44.0276	43.8155	9.0446e-02	5.9025e-01
100	PAB125136	45.0250	45.4370	45.2259	9.6120e-02	5.9092e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8567	40.2229	40.0659	9.3233e-02	7.5666e-01
102	PRV000001	15.5319	15.6539	15.6514	1.7439e-02	7.5102e-01
103	PSR000001	45.2255	45.4697	45.3451	4.6548e-02	7.5852e-01
104	PFM000001	1.1796	1.3627	1.2842	6.4738e-02	5.0001e-01
105	PAN000136	-142.3902	-130.4883	-136.8410	2.8336e+00	4.9319e+00
106	PFM000002	1.2946	1.3450	1.3162	1.7126e-02	2.0003e-01
107	EMPTY	-0.0049	0.0049	-0.0035	2.6370e-03	0.0000e+00
108	EMPTY	-10.0000	-3.8281	-6.1676	2.2134e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0012	2.3440e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0004	1.3508e-03	0.0000e+00
112	VPW000001	102.3137	102.7043	102.4930	1.2504e-01	1.0170e+00
113	VPW000002	119.1293	119.5200	119.3287	1.1616e-01	1.0811e+00
114	VPW000003	147.0252	147.8065	147.4478	1.7536e-01	1.1995e+00
115	VPW000004	105.2208	105.8068	105.4760	1.3345e-01	1.0279e+00
116	VPW000005	139.5282	140.1142	139.8432	1.4819e-01	1.1662e+00
117	VPW000006	146.1275	146.5182	146.3307	1.1933e-01	1.1946e+00
118	IPW000001	539.8232	545.6802	541.8950	1.3461e+00	9.1617e+00
119	IPW000002	1304.9490	1310.8027	1308.4928	1.5769e+00	1.3133e+01
120	IPW000003	1315.9875	1325.7375	1321.3202	2.0209e+00	1.3213e+01
121	IPW000004	372.8403	374.7935	374.0658	4.3585e-01	3.5683e+00
122	IPW000005	253.0077	253.9841	253.5857	3.2559e-01	2.8308e+00
123	IPW000006	265.7471	267.7002	266.6041	5.3238e-01	2.9045e+00
124	EMPTY	-0.0293	-0.0146	-0.0223	4.2286e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	3.0472e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0196	3.6607e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0148	3.7239e-03	0.0000e+00
128	IHT000001	130.4500	133.3797	131.4784	6.1217e-01	4.3057e+00
129	IHT000002	130.2359	132.9702	130.9932	5.7448e-01	4.3042e+00
130	IHT000003	129.1128	131.8472	129.9499	5.8185e-01	4.3010e+00
131	IHT000004	131.2988	133.6426	132.1439	5.7275e-01	4.3077e+00
132	IHT000005	129.4433	131.3965	130.2963	5.2240e-01	4.3021e+00
133	IHT000006	125.0000	127.1484	125.9965	5.0938e-01	4.2892e+00
134	IHT000007	131.3664	133.5149	132.3230	4.6706e-01	4.3082e+00
135	IHT000008	130.0293	132.3730	131.1175	5.1675e-01	4.3046e+00
136	IHT000009	129.6800	132.0237	130.6964	5.2737e-01	4.3033e+00
137	IHT000010	129.7251	132.2641	131.0165	5.7611e-01	4.3042e+00
138	IHT000011	131.0209	133.3646	132.1928	5.4664e-01	4.3078e+00
139	IHT000012	130.1871	132.1402	131.1915	4.8828e-01	4.3048e+00
140	IHT000013	91.7931	93.7463	92.9172	4.5023e-01	4.2040e+00
141	IHT000014	127.4677	129.2255	128.3287	3.9249e-01	4.2961e+00
142	IHT000015	94.7190	96.2815	95.5242	3.7108e-01	4.2098e+00
143	IHT000016	88.6719	90.2344	89.5767	3.7968e-01	4.1967e+00
144	IHT000017	103.8800	105.8331	104.8405	4.9449e-01	4.2319e+00
145	IHT000018	106.3927	108.3459	107.4091	4.9149e-01	4.2384e+00
146	IHT000019	107.2454	109.1985	108.1461	5.0715e-01	4.2402e+00
147	IHT000020	105.2133	107.3618	106.2457	4.6151e-01	4.2354e+00
148	IHT000021	-3.0161	-0.6723	-1.8123	5.6148e-01	4.1000e+00
149	IHT000022	92.1650	94.1181	93.1097	4.3554e-01	4.2044e+00
150	IHT000023	104.6274	106.3852	105.5004	4.2773e-01	4.2336e+00
151	IHT000024	69.7716	71.5295	70.6725	4.1779e-01	4.1605e+00
152	IHT000025	101.8254	103.7786	102.9415	4.4395e-01	4.2273e+00
153	IHT000026	104.5035	106.2613	105.5039	4.4508e-01	4.2336e+00
154	IHT000027	89.4193	91.3725	90.5753	4.5603e-01	4.1989e+00
155	IHT000028	90.2231	92.7622	91.5943	5.6027e-01	4.2011e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4425	107.7862	106.6860	5.3592e-01	4.2365e+00
157	IHT000030	107.7411	110.2802	109.0725	5.3142e-01	4.2426e+00
158	IHT000031	105.6265	107.9702	107.0096	5.3464e-01	4.2373e+00
159	IHT000032	106.6481	108.9919	107.9276	5.3941e-01	4.2397e+00
160	IHT000033	106.6406	108.7891	107.8962	5.2286e-01	4.2396e+00
161	IHT000034	93.9153	96.0637	94.9556	4.4464e-01	4.2085e+00
162	IHT000035	123.5352	125.6836	124.7070	4.3491e-01	4.2855e+00
163	IHT000036	92.5894	94.7378	93.6496	4.1240e-01	4.2056e+00

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Velocity 1 = 0.076400 (ft/sec)
Velocity 2 = 0.040800 (ft/sec)
Pressure Drop = 0.020900 (psi)
Tsats in = 0.176697 (deg F) Tsats out = 0.38098 (deg F)
Phi inner = 1.282700 (kBtu/hr-ft2) Phi iter = 0.468498 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1228	0.1631
1	TRF000002	0.1847	0.2439
2	TFM000001	1.0413	1.2235
3	TIN000001	1.0066	1.1829
4	TRV000001	0.8311	0.9608
5	TSR000001	2.7928	1.7679
6	EMPTY	0.0280	0.0728
7	TAO050136	1.3301	0.5752
8	TAO070136	1.4133	0.5811
9	TAO080136	1.8160	0.7239
10	TAO090136	4.5551	2.1631
11	TAO100136	2.1580	0.7940
12	TAO105136	1.9506	0.7056
13	EMPTY	0.0000	0.0000
14	TAO115136	0.0689	0.0236
15	EMPTY	0.5392	1.3558
16	TAO125136	1.1962	0.3962
17	EMPTY	0.0493	0.1090
18	EMPTY	0.0202	0.0486
19	TAO130048	0.0416	0.0147
20	TAO120224	0.1023	0.0352
21	EMPTY	0.0237	0.0598
22	TAO120312	0.2547	0.0855
23	TAO130312	0.3663	0.1282
24	EMPTY	0.0639	0.1617
25	TRT070000	3.1469	1.3340
26	TRT100000	1.5347	0.5288
27	TRT120000	0.0411	0.0139
28	TRT125000	0.5484	0.1852
29	EMPTY	0.0103	0.0257
30	EMPTY	0.0293	0.0739
31	TAF050136	0.4002	0.2602
32	TAF070136	0.9262	0.5285
33	TAF080136	1.0213	0.5476
34	TAF090136	1.2049	0.6089
35	TAF100136	1.6534	0.7754
36	TAF105136	1.8131	0.8145
37	TAF110136	1.3613	0.5831
38	TAF115136	2.2680	0.9400
39	TAF120136	2.9834	1.2056
40	TAF125136	3.5622	1.3931
41	TAF130136	4.4287	1.6809
42	TAF120048	1.1487	0.4766
43	TAF130048	1.4254	0.5690
44	TAF120224	2.2143	0.9154
45	TAF130224	2.5230	0.9986

#	Name	Abs Diff	%Diff
46	EMPTY	0.0797	0.2097
47	EMPTY	0.0893	0.2243
48	TAI130048	0.3062	0.1025
49	TAI130136	0.2625	0.0870
50	TAI130224	1.4099	0.4769
51	TAI130312	0.0734	0.0247
52	TRR130000	5.0566	3.4791
53	TSI000001	0.0508	0.119
54	TSI000002	4.8540	5.186
55	TSO000001	0.0463	0.114
56	TSO000002	0.1846	0.328
57	TAF020136	0.1769	0.15
58	EMPTY	0.0499	0.11
59	TAF130312	1.8219	0.70
60	EMPTY	0.0452	0.95
61	EMPTY	0.0455	0.96
62	EMPTY	0.0467	0.96
63	EMPTY	0.0471	1.01
64	EMPTY	0.0226	1.06
65	EMPTY	0.0224	1.08
66	EMPTY	0.0219	1.02
67	EMPTY	0.0228	1.11
68	EMPTY	0.0227	1.11
69	EMPTY	0.0232	1.18
70	EMPTY	0.0226	1.31
71	EMPTY	0.0227	1.10
72	EMPTY	0.0233	1.59
73	EMPTY	0.0233	1.15
74	EMPTY	0.0233	1.92
75	EMPTY	0.0213	0.69
76	EMPTY	0.0215	0.35
77	EMPTY	0.0215	0.91
78	EMPTY	0.0220	0.58
79	EMPTY	0.0211	0.98
80	PAN020136	0.3584	0.431
81	PAN050136	0.6943	0.505
82	PAN070136	0.9848	0.634
83	PAN080136	0.3173	0.205
84	PAN090136	0.8285	0.7141
85	PAN100136	0.4318	0.9500
86	PAN105136	0.0137	0.2233
87	PAN110136	0.0598	0.1975
88	PAN115136	0.0120	0.1590
89	PAN120136	0.4781	0.8830
90	PAN125136	0.1010	0.8186
91	PAN130136	1.1020	0.6759
92	PAN120048	2.3647	0.2988
93	PAN130048	0.1280	0.5622
94	PAN120224	0.1699	0.7517
95	PAN130224	0.4359	0.50408
96	PAN120312	1.2788	0.67564
97	PAN130312	0.7515	0.71581
98	PAB000136	0.1191	0.2965
99	PAB100136	0.1312	0.3003
100	PAB125136	0.1771	0.3931

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1018	0.2547
102	PRV000001	0.1098	0.7065
103	PSR000001	0.1171	0.2589
104	PFM000001	0.0693	5.1201
105	PAN000136	0.5779	0.4205
106	PFM000002	0.0372	2.7486
107	EMPTY	0.0001	2.9412
108	EMPTY	0.8281	15.5089
109	EMPTY	0.0010	45.4545
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0012	75.0000
112	VPW000001	0.0856	0.0836
113	VPW000002	0.1093	0.0915
114	VPW000003	0.0384	0.0260
115	VPW000004	0.1927	0.1830
116	VPW000005	0.0649	0.0464
117	VPW000006	0.0351	0.0240
118	IPW000001	21.8248	3.8716
119	IPW000002	33.1637	2.6004
120	IPW000003	18.3979	1.4121
121	IPW000004	4.2723	1.1292
122	IPW000005	0.4803	0.1898
123	IPW000006	2.3023	0.8711
124	EMPTY	0.0020	9.8522
125	EMPTY	0.0005	3.4722
126	EMPTY	0.0031	18.7879
127	EMPTY	0.0026	14.9425
128	IHT000001	0.2685	0.2038
129	IHT000002	0.1802	0.1374
130	IHT000003	0.1903	0.1462
131	IHT000004	0.1666	0.1259
132	IHT000005	0.2213	0.1696
133	IHT000006	0.1754	0.1390
134	IHT000007	0.2348	0.1771
135	IHT000008	0.1930	0.1470
136	IHT000009	0.1594	0.1218
137	IHT000010	0.1969	0.1501
138	IHT000011	0.0821	0.0621
139	IHT000012	0.1401	0.1067
140	IHT000013	0.1436	0.1548
141	IHT000014	0.0804	0.0626
142	IHT000015	0.0825	0.0864
143	IHT000016	0.0366	0.0408
144	IHT000017	1.7816	1.6709
145	IHT000018	0.4758	0.4410
146	IHT000019	0.2711	0.2500
147	IHT000020	0.3661	0.3434
148	IHT000021	0.2454	15.6615
149	IHT000022	0.1725	0.1849
150	IHT000023	0.3809	0.3597
151	IHT000024	0.2984	0.4205
152	IHT000025	0.2979	0.2886
153	IHT000026	0.4058	0.3832
154	IHT000027	0.2113	0.2327
155	IHT000028	0.1288	0.1404

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#	Name	Abs Diff	%Diff
156	IHT000029	0.3150	0.294
157	IHT000030	0.3327	0.304
158	IHT000031	0.3317	0.309
159	IHT000032	0.4627	0.426
160	IHT000033	0.4241	0.39
161	IHT000034	0.0169	0.01
162	IHT000035	0.1289	0.10
163	IHT000036	0.0446	0.04

Velocity 1 = 3.2150 (ft/sec) (+/- 16.6357 %)
 Velocity 2 = 3.1886 (ft/sec) (+/- 6.8947 %)
 Pressure drop = -4.8498 (psi)
 Tsat in = 267.6571 (deg F) Tsat out = 274.3959 (deg F)
 Phi inner = 100.5703 (kBtu/hr-ft2) (+/- 1.5701 %)
 Phi outer = 100.2721 (kBtu/hr-ft2) (+/- 1.5541 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.8791	76.5163	76.2105	2.0203e-01	1.9000e+00
1	TRF000002	76.4142	77.0480	76.7015	1.6944e-01	1.9000e+00
2	TFM000001	85.0653	85.9046	85.4179	1.7836e-01	1.9002e+00
3	TIN000001	84.9402	85.6767	85.2519	1.7129e-01	1.9002e+00
4	TRV000001	86.2304	87.2768	86.8337	2.0575e-01	1.9002e+00
5	TSR000001	162.2943	165.6463	164.4439	8.4559e-01	1.9060e+00
6	EMPTY	37.9974	38.9168	38.4664	2.3197e-01	1.9010e+00
7	TAO050136	231.8252	233.0489	232.3344	2.4953e-01	1.9177e+00
8	TAO070136	237.6050	238.9273	238.1228	2.9507e-01	1.9189e+00
9	TAO080136	245.2119	246.1454	245.6305	1.9075e-01	1.9207e+00
10	TAO090136	218.8838	219.7402	219.3023	1.9698e-01	1.9150e+00
11	TAO100136	268.2570	269.2729	268.7301	2.5210e-01	1.9264e+00
12	TAO105136	271.8569	273.6077	272.6570	3.9869e-01	1.9275e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
14	TAO115136	287.6818	288.7814	288.2644	2.6815e-01	1.9318e+00
15	EMPTY	31.5371	42.8139	38.5467	3.6951e+00	1.9010e+00
16	TAO125136	296.6424	297.4593	297.0420	1.8517e-01	1.9344e+00
17	EMPTY	44.8706	45.5552	45.2723	1.9319e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5914	1.1898e-01	1.9012e+00
19	TAO130048	278.8535	280.2272	279.6300	2.8653e-01	1.9294e+00
20	TAO120224	284.9147	286.4706	285.5996	3.2925e-01	1.9311e+00
21	EMPTY	39.3761	40.2940	39.6102	1.5718e-01	1.9011e+00
22	TAO120312	293.4941	294.5889	293.9723	2.4833e-01	1.9335e+00
23	TAO130312	282.1178	283.6733	283.0913	2.8203e-01	1.9303e+00
24	EMPTY	39.1464	39.8352	39.6056	1.8551e-01	1.9011e+00
25	TRT070000	232.4528	234.6391	233.7992	4.1395e-01	1.9180e+00
26	TRT100000	282.0482	283.0559	282.6492	2.5245e-01	1.9302e+00
27	TRT120000	290.0477	290.8694	290.3182	2.0779e-01	1.9324e+00
28	TRT125000	290.3214	291.0506	290.7006	1.8607e-01	1.9325e+00
29	EMPTY	39.8352	40.2940	40.0968	9.2814e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6929	2.3595e-01	1.9011e+00
31	TAF050136	150.0132	152.4032	151.1888	5.4988e-01	1.9044e+00
32	TAF070136	170.4448	173.7704	171.9796	6.5081e-01	1.9070e+00
33	TAF080136	180.9373	183.1679	181.7412	4.4999e-01	1.9084e+00
34	TAF090136	191.6746	193.9021	192.8683	4.8530e-01	1.9101e+00
35	TAF100136	206.3438	209.8030	208.1240	8.5103e-01	1.9128e+00
36	TAF105136	215.2816	218.8704	217.4168	8.6684e-01	1.9146e+00
37	TAF110136	227.1884	234.2427	231.0475	1.7986e+00	1.9174e+00
38	TAF115136	232.6196	235.0645	233.9664	5.5156e-01	1.9180e+00
39	TAF120136	239.2790	241.8014	240.3482	5.4712e-01	1.9194e+00
40	TAF125136	245.4711	247.7025	246.6715	4.8111e-01	1.9209e+00
41	TAF130136	251.3783	253.3313	252.2636	4.4997e-01	1.9222e+00
42	TAF120048	232.5839	235.2429	234.2290	5.7322e-01	1.9181e+00
43	TAF130048	241.8459	244.3772	242.7916	6.1547e-01	1.9200e+00
44	TAF120224	234.5128	236.3954	235.3530	4.4297e-01	1.9183e+00
45	TAF130224	244.9144	246.7967	246.0134	4.2397e-01	1.9208e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0112	2.2477e-01	1.9010e+00
47	EMPTY	39.3761	40.0646	39.7204	1.4845e-01	1.9011e+00
48	TAI130048	294.7722	295.4099	295.1003	1.5613e-01	1.9338e+00
49	TAI130136	297.0366	297.8542	297.3928	1.7591e-01	1.9345e+00
50	TAI130224	296.4912	297.3112	296.9358	1.7998e-01	1.9344e+00
51	TAI130312	293.6062	294.5179	294.0219	1.9597e-01	1.9335e+00
52	TRR130000	139.7658	145.6729	142.6043	1.4551e+00	1.9035e+00
53	TSI000001	42.4526	43.3212	42.9041	2.0647e-01	1.9005e+00
54	TSI000002	87.2851	89.6908	88.7159	4.8904e-01	1.9002e+00
55	TSO000001	40.4158	41.4008	40.8448	2.4586e-01	1.9006e+00
56	TSO000002	55.6090	56.6849	56.1000	2.2087e-01	1.9001e+00
57	TAF020136	111.8472	114.9500	113.2838	8.8142e-01	1.9013e+00
58	EMPTY	42.8139	43.5000	43.1341	2.4008e-01	1.9013e+00
59	TAF130312	249.6663	252.0895	250.9456	4.3310e-01	1.9219e+00
60	EMPTY	4.4678	4.4922	4.4753	5.5110e-03	0.0000e+00
61	EMPTY	4.4531	4.4678	4.4598	4.0385e-03	0.0000e+00
62	EMPTY	4.4434	4.4531	4.4467	3.0309e-03	0.0000e+00
63	EMPTY	4.4385	4.4434	4.4398	2.2146e-03	0.0000e+00
64	EMPTY	2.0703	2.0752	2.0716	2.1635e-03	0.0000e+00
65	EMPTY	2.0752	2.0850	2.0822	2.6396e-03	0.0000e+00
66	EMPTY	2.0850	2.0947	2.0894	1.7784e-03	0.0000e+00
67	EMPTY	2.0947	2.0996	2.0964	2.3365e-03	0.0000e+00
68	EMPTY	2.0996	2.1045	2.1006	1.9730e-03	0.0000e+00
69	EMPTY	2.1094	2.1143	2.1096	9.6655e-04	0.0000e+00
70	EMPTY	2.1143	2.1191	2.1159	2.3365e-03	0.0000e+00
71	EMPTY	2.1289	2.1338	2.1310	2.4344e-03	0.0000e+00
72	EMPTY	2.1338	2.1387	2.1351	2.1635e-03	0.0000e+00
73	EMPTY	2.1436	2.1533	2.1456	2.6267e-03	0.0000e+00
74	EMPTY	2.1484	2.1533	2.1512	2.4484e-03	0.0000e+00
75	EMPTY	2.1582	2.1631	2.1599	2.3365e-03	0.0000e+00
76	EMPTY	2.1631	2.1680	2.1648	2.3675e-03	0.0000e+00
77	EMPTY	2.1729	2.1777	2.1758	2.4164e-03	0.0000e+00
78	EMPTY	2.1875	2.1973	2.1896	2.6267e-03	0.0000e+00
79	EMPTY	2.2021	2.2070	2.2047	2.4642e-03	0.0000e+00
80	PAN020136	-20.2470	-14.7539	-16.8718	1.4784e+00	8.7102e-01
81	PAN050136	-37.6314	-30.7650	-35.0161	1.6024e+00	1.6823e+00
82	PAN070136	-20.2308	-15.5769	-17.1074	1.3345e+00	8.7105e-01
83	PAN080136	-11.9839	-10.8395	-11.2591	2.4866e-01	8.7046e-01
84	PAN090136	-11.4160	-9.5087	-10.4074	4.8847e-01	8.7039e-01
85	PAN100136	-13.0461	-7.7055	-12.3045	1.0659e+00	8.7054e-01
86	PAN105136	-6.2289	-3.8638	-5.7086	5.9492e-01	8.7012e-01
87	PAN110136	-6.7938	-3.0554	-5.1290	1.1821e+00	8.7009e-01
88	PAN115136	-6.6544	-2.2294	-4.0467	9.1002e-01	8.7006e-01
89	PAN120136	-7.0050	-3.1140	-6.2421	9.0705e-01	8.7014e-01
90	PAN125136	-6.0939	-1.2874	-4.2064	1.2555e+00	8.7006e-01
91	PAN130136	-5.6566	-2.4523	-3.8866	9.3186e-01	8.7005e-01
92	PAN120048	-11.9443	-6.9852	-9.3656	1.1751e+00	8.7032e-01
93	PAN130048	-11.0742	-7.6410	-9.4797	8.6965e-01	8.7032e-01
94	PAN120224	-13.0651	-7.4194	-10.2163	1.5628e+00	8.7037e-01
95	PAN130224	-11.3148	-4.8298	-8.3668	1.3860e+00	8.7025e-01
96	PAN120312	-12.4122	-6.8428	-9.1804	1.2939e+00	8.7030e-01
97	PAN130312	-10.3948	-6.6564	-9.0826	1.0402e+00	8.7030e-01
98	PAB000136	40.0072	40.3276	40.1940	5.9821e-02	5.8864e-01
99	PAB100136	43.5240	44.0276	43.8756	8.6480e-02	5.9028e-01
100	PAB125136	44.8877	45.1623	44.9628	5.2933e-02	5.9079e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8567	40.2229	40.0520	7.3986e-02	7.5665e-01
102	PRV000001	15.4098	15.5319	15.5294	1.7263e-02	7.5100e-01
103	PSR000001	45.1035	45.3476	45.2256	3.4877e-02	7.5847e-01
104	PFM000001	1.3627	1.6373	1.5366	7.4562e-02	5.0001e-01
105	PAN000136	-139.1859	-131.8616	-134.2695	1.6744e+00	4.9314e+00
106	PFM000002	1.4792	1.5463	1.5108	1.8456e-02	2.0004e-01
107	EMPTY	-0.0049	0.0049	-0.0007	4.1864e-03	0.0000e+00
108	EMPTY	-10.0000	-3.9111	-5.9986	2.0996e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0002	2.4083e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.9231	102.8997	102.5480	2.0504e-01	1.0172e+00
113	VPW000002	119.1293	119.7153	119.4028	1.4764e-01	1.0814e+00
114	VPW000003	147.2206	147.8065	147.5214	1.5887e-01	1.1998e+00
115	VPW000004	105.0255	105.6115	105.3537	1.5505e-01	1.0275e+00
116	VPW000005	139.5282	140.1142	139.8486	1.8407e-01	1.1663e+00
117	VPW000006	145.7369	146.7135	146.1626	2.6962e-01	1.1938e+00
118	IPW000001	535.9185	545.6802	540.3699	2.3013e+00	9.1561e+00
119	IPW000002	1293.2413	1310.8027	1302.6854	5.2352e+00	1.3097e+01
120	IPW000003	1321.8375	1329.6375	1325.6207	1.6904e+00	1.3239e+01
121	IPW000004	372.8403	375.7700	374.1584	6.8523e-01	3.5689e+00
122	IPW000005	252.5194	253.9841	253.1249	4.0140e-01	2.8282e+00
123	IPW000006	265.2588	267.2119	266.1475	5.9753e-01	2.9019e+00
124	EMPTY	-0.0293	-0.0146	-0.0204	4.1491e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0126	3.1335e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0165	3.4016e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0155	3.5141e-03	0.0000e+00
128	IHT000001	130.4500	132.7937	131.8836	5.7536e-01	4.3069e+00
129	IHT000002	129.8452	132.3843	131.3491	6.0135e-01	4.3053e+00
130	IHT000003	128.9175	131.4566	130.3472	6.2195e-01	4.3022e+00
131	IHT000004	131.1035	133.6426	132.4980	6.4236e-01	4.3088e+00
132	IHT000005	129.4433	131.7871	130.7129	6.3779e-01	4.3033e+00
133	IHT000006	125.1953	127.5390	126.4180	6.1487e-01	4.2905e+00
134	IHT000007	131.5618	134.1008	132.8351	5.7621e-01	4.3098e+00
135	IHT000008	130.4199	132.9590	131.5683	6.0056e-01	4.3059e+00
136	IHT000009	129.8753	132.6097	131.0863	5.7724e-01	4.3045e+00
137	IHT000010	130.5063	132.4594	131.4946	5.2409e-01	4.3057e+00
138	IHT000011	131.2162	133.3646	132.3335	5.7998e-01	4.3083e+00
139	IHT000012	130.1871	132.3355	131.3081	5.6194e-01	4.3051e+00
140	IHT000013	91.9884	93.9416	92.9728	4.9750e-01	4.2041e+00
141	IHT000014	127.4677	129.8114	128.5966	4.7889e-01	4.2969e+00
142	IHT000015	94.5237	96.6722	95.6058	4.5713e-01	4.2100e+00
143	IHT000016	88.8672	90.8203	89.7891	4.6528e-01	4.1972e+00
144	IHT000017	105.0518	107.9815	106.4424	7.0326e-01	4.2359e+00
145	IHT000018	106.5881	108.9318	107.8302	5.1108e-01	4.2394e+00
146	IHT000019	107.2454	109.5891	108.4563	4.6354e-01	4.2410e+00
147	IHT000020	105.2133	107.5571	106.5259	4.6528e-01	4.2361e+00
148	IHT000021	-3.0161	-0.4770	-1.5590	4.9159e-01	4.1000e+00
149	IHT000022	92.1650	94.3134	93.3525	4.5820e-01	4.2049e+00
150	IHT000023	104.4321	106.5805	105.6899	4.1603e-01	4.2340e+00
151	IHT000024	69.7716	71.7248	70.9240	3.9508e-01	4.1609e+00
152	IHT000025	102.2161	103.9739	103.3019	4.1789e-01	4.2281e+00
153	IHT000026	104.6988	106.6519	105.8237	4.1864e-01	4.2344e+00
154	IHT000027	89.6146	91.9584	90.8959	4.7541e-01	4.1995e+00
155	IHT000028	90.6137	92.9575	91.5513	5.9451e-01	4.2010e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6378	107.7862	106.6612	5.5462e-01	4.2365e+00
157	IHT000030	107.9365	110.4755	109.1748	6.1461e-01	4.2429e+00
158	IHT000031	106.0171	108.1656	107.0874	5.5277e-01	4.2375e+00
159	IHT000032	106.8435	109.1872	108.0387	5.6032e-01	4.2400e+00
160	IHT000033	106.8359	108.9844	107.9805	5.4535e-01	4.2398e+00
161	IHT000034	93.9153	95.8684	94.8762	4.4265e-01	4.2083e+00
162	IHT000035	123.5352	125.8789	124.7461	4.9284e-01	4.2856e+00
163	IHT000036	92.5894	94.5425	93.5816	4.1916e-01	4.2054e+00

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Velocity 1 = 3.1629 (ft/sec) (+/- 17.1783 %)
Velocity 2 = 3.1662 (ft/sec) (+/- 6.9695 %)
Pressure drop = -4.8607 (psi)
Tsats in = 267.5073 (deg F) Tsats out = 274.2794 (deg F)
Phi inner = 100.6808 (kBtu/hr-ft2) (+/- 1.5699 %)
Phi outer = 100.6647 (kBtu/hr-ft2) (+/- 1.5523 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.0915	76.7287	76.3560	1.7086e-01	1.9000e+00
1	TRF000002	76.6255	77.0480	76.8496	1.5189e-01	1.9000e+00
2	TFM000001	84.4365	85.4859	84.8712	2.1425e-01	1.9001e+00
3	TIN000001	84.4141	85.1511	84.7085	1.8105e-01	1.9001e+00
4	TRV000001	85.8121	86.5463	86.2402	2.0933e-01	1.9002e+00
5	TSR000001	161.6054	167.7114	165.1905	1.9879e+00	1.9061e+00
6	EMPTY	37.9974	38.6870	38.4572	2.0450e-01	1.9010e+00
7	TAO050136	230.7923	232.0168	231.3533	2.7324e-01	1.9175e+00
8	TAO070136	237.6042	238.4549	237.9977	2.4034e-01	1.9189e+00
9	TAO080136	244.8405	245.8670	245.2522	2.2544e-01	1.9206e+00
10	TAO090136	218.3132	219.0749	218.7155	1.9551e-01	1.9148e+00
11	TAO100136	268.1650	269.4577	269.0526	2.6441e-01	1.9265e+00
12	TAO105136	271.7646	273.4235	272.6019	3.6472e-01	1.9275e+00
13	EMPTY	-601.0594	-601.0594	-601.0591	3.7001e-04	2.1295e+00
14	TAO115136	287.4053	288.4139	287.9071	2.5329e-01	1.9317e+00
15	EMPTY	31.3055	42.8139	37.9652	4.1047e+00	1.9010e+00
16	TAO125136	296.3715	297.2792	296.8586	2.6352e-01	1.9344e+00
17	EMPTY	44.6423	45.5552	45.1920	2.1808e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.5805	1.3883e-01	1.9012e+00
19	TAO130048	278.2150	279.4961	278.8105	2.9308e-01	1.9292e+00
20	TAO120224	285.0065	286.2882	285.6174	2.8658e-01	1.9311e+00
21	EMPTY	39.3761	39.8352	39.5916	1.0897e-01	1.9011e+00
22	TAO120312	293.2205	294.2241	293.8218	2.2339e-01	1.9335e+00
23	TAO130312	281.3867	282.4853	281.9754	2.4495e-01	1.9300e+00
24	EMPTY	39.1464	39.8352	39.5869	2.1390e-01	1.9011e+00
25	TRT070000	234.1626	235.9681	235.0978	4.2864e-01	1.9183e+00
26	TRT100000	281.4079	282.5071	281.9333	2.5549e-01	1.9300e+00
27	TRT120000	289.6830	290.2310	289.9738	1.7043e-01	1.9323e+00
28	TRT125000	289.8698	290.5965	290.2669	1.6875e-01	1.9324e+00
29	EMPTY	39.8352	40.2940	40.0928	8.9255e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7321	2.0455e-01	1.9011e+00
31	TAF050136	149.1185	151.6079	150.5046	5.5492e-01	1.9044e+00
32	TAF070136	169.3709	172.0122	170.9104	5.6732e-01	1.9068e+00
33	TAF080136	180.0666	182.1037	180.9596	4.6986e-01	1.9083e+00
34	TAF090136	190.9966	193.0311	192.1341	4.5562e-01	1.9100e+00
35	TAF100136	205.3816	208.8424	207.0560	7.7700e-01	1.9126e+00
36	TAF105136	214.9986	218.3042	216.3127	9.2922e-01	1.9144e+00
37	TAF110136	226.3425	233.1160	229.8409	1.8716e+00	1.9171e+00
38	TAF115136	231.7720	235.2532	233.1628	6.7581e-01	1.9179e+00
39	TAF120136	238.4378	240.6822	239.2627	4.6976e-01	1.9192e+00
40	TAF125136	244.7271	246.8671	245.7602	5.4933e-01	1.9207e+00
41	TAF130136	250.4474	252.3086	251.3346	4.0266e-01	1.9220e+00
42	TAF120048	232.3931	234.1036	233.3488	4.5314e-01	1.9179e+00
43	TAF130048	241.1895	242.8783	242.0533	4.2769e-01	1.9198e+00
44	TAF120224	233.5722	235.3613	234.4601	4.1315e-01	1.9181e+00
45	TAF130224	244.3490	245.9481	245.1977	3.5549e-01	1.9206e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9599	2.0646e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6806	1.4356e-01	1.9011e+00
48	TAI130048	294.1352	294.6818	294.3640	1.4656e-01	1.9336e+00
49	TAI130136	296.5842	297.3106	296.9828	1.5606e-01	1.9344e+00
50	TAI130224	296.2174	297.0374	296.5409	1.8511e-01	1.9343e+00
51	TAI130312	293.0587	293.7887	293.3360	1.4176e-01	1.9333e+00
52	TRR130000	143.9742	147.2708	146.1826	6.4228e-01	1.9039e+00
53	TSI000001	43.1034	43.7559	43.4874	1.5555e-01	1.9005e+00
54	TSI000002	84.8754	86.6570	85.7848	4.0570e-01	1.9002e+00
55	TSO000001	40.8538	41.8379	41.3537	2.1176e-01	1.9006e+00
56	TSO000002	55.8243	57.0085	56.5472	2.4067e-01	1.9001e+00
57	TAF020136	110.8106	114.7421	112.4739	9.0764e-01	1.9012e+00
58	EMPTY	42.5851	43.5000	43.0333	2.5976e-01	1.9012e+00
59	TAF130312	249.3871	250.7862	250.1867	3.5395e-01	1.9217e+00
60	EMPTY	4.4434	4.4580	4.4509	3.8681e-03	0.0000e+00
61	EMPTY	4.4287	4.4385	4.4355	3.1228e-03	0.0000e+00
62	EMPTY	4.4141	4.4287	4.4214	3.1711e-03	0.0000e+00
63	EMPTY	4.4092	4.4189	4.4147	2.7536e-03	0.0000e+00
64	EMPTY	2.0605	2.0654	2.0616	2.0584e-03	0.0000e+00
65	EMPTY	2.0703	2.0752	2.0726	2.4621e-03	0.0000e+00
66	EMPTY	2.0752	2.0801	2.0789	2.1215e-03	0.0000e+00
67	EMPTY	2.0850	2.0898	2.0870	2.4247e-03	0.0000e+00
68	EMPTY	2.0898	2.0996	2.0920	2.6485e-03	0.0000e+00
69	EMPTY	2.0947	2.1045	2.0997	1.8619e-03	0.0000e+00
70	EMPTY	2.1045	2.1094	2.1074	2.4247e-03	0.0000e+00
71	EMPTY	2.1191	2.1240	2.1216	2.4662e-03	0.0000e+00
72	EMPTY	2.1240	2.1289	2.1250	1.9883e-03	0.0000e+00
73	EMPTY	2.1338	2.1436	2.1362	2.6600e-03	0.0000e+00
74	EMPTY	2.1387	2.1484	2.1428	2.0781e-03	0.0000e+00
75	EMPTY	2.1484	2.1533	2.1499	2.2737e-03	0.0000e+00
76	EMPTY	2.1533	2.1582	2.1558	2.4662e-03	0.0000e+00
77	EMPTY	2.1631	2.1680	2.1678	9.7615e-04	0.0000e+00
78	EMPTY	2.1777	2.1826	2.1822	1.3508e-03	0.0000e+00
79	EMPTY	2.1973	2.1973	2.1973	0.0000e+00	0.0000e+00
80	PAN020136	-19.2552	-15.2116	-17.2794	1.1603e+00	8.7107e-01
81	PAN050136	-37.1737	-30.0020	-34.3025	1.9535e+00	1.6822e+00
82	PAN070136	-22.1382	-16.7976	-18.6115	1.4922e+00	8.7124e-01
83	PAN080136	-11.4499	-9.3899	-10.7165	4.3265e-01	8.7041e-01
84	PAN090136	-11.5686	-9.8138	-10.6827	4.0635e-01	8.7041e-01
85	PAN100136	-13.0461	-10.8336	-12.3968	6.3031e-01	8.7055e-01
86	PAN105136	-6.2289	-3.4823	-5.6653	6.6344e-01	8.7012e-01
87	PAN110136	-6.7938	-2.5976	-4.9674	1.0481e+00	8.7009e-01
88	PAN115136	-6.4256	-2.2294	-4.5540	1.0745e+00	8.7007e-01
89	PAN120136	-7.0050	-3.8007	-5.5212	9.3376e-01	8.7011e-01
90	PAN125136	-6.0939	-1.8978	-4.7907	1.1602e+00	8.7008e-01
91	PAN130136	-5.8092	-1.3842	-3.7135	1.2148e+00	8.7005e-01
92	PAN120048	-12.0206	-6.9089	-9.3083	1.0208e+00	8.7031e-01
93	PAN130048	-11.2268	-7.8699	-9.7103	7.2356e-01	8.7034e-01
94	PAN120224	-13.0651	-9.0978	-10.6626	9.7145e-01	8.7041e-01
95	PAN130224	-10.1704	-5.4401	-8.6694	1.0809e+00	8.7027e-01
96	PAN120312	-12.5648	-7.6820	-10.3367	9.8125e-01	8.7038e-01
97	PAN130312	-11.2341	-7.4194	-9.5245	9.6730e-01	8.7033e-01
98	PAB000136	39.8699	40.1903	40.0932	6.9066e-02	5.8860e-01
99	PAB100136	43.6156	43.8902	43.7968	5.3644e-02	5.9024e-01
100	PAB125136	44.7504	45.0250	44.8765	6.3739e-02	5.9075e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.6125	39.9787	39.8716	9.5316e-02	7.5659e-01
102	PRV000001	15.6539	15.7760	15.6589	2.4404e-02	7.5102e-01
103	PSR000001	45.1035	45.1035	45.1035	3.0834e-05	7.5843e-01
104	PFM000001	1.3627	1.6373	1.4860	5.7755e-02	5.0001e-01
105	PAN000136	-138.2703	-132.3194	-134.5708	1.4073e+00	4.9315e+00
106	PFM000002	1.4624	1.5128	1.4892	1.3666e-02	2.0003e-01
107	EMPTY	-0.0049	0.0049	-0.0009	4.0698e-03	0.0000e+00
108	EMPTY	-10.0000	-3.9160	-5.4535	1.5621e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0000	1.7263e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	102.1184	103.0950	102.5090	2.1470e-01	1.0171e+00
113	VPW000002	119.3247	119.9106	119.4762	1.3963e-01	1.0817e+00
114	VPW000003	147.2206	148.0018	147.5753	1.6279e-01	1.2001e+00
115	VPW000004	105.0255	105.8068	105.3205	2.0377e-01	1.0273e+00
116	VPW000005	139.5282	140.3095	139.8312	1.6468e-01	1.1662e+00
117	VPW000006	145.9322	146.7135	146.1514	1.9381e-01	1.1938e+00
118	IPW000001	539.8232	545.6802	541.7355	1.5685e+00	9.1611e+00
119	IPW000002	1304.9490	1316.6565	1309.5686	2.1704e+00	1.3139e+01
120	IPW000003	1321.8375	1331.5875	1327.2097	2.7152e+00	1.3249e+01
121	IPW000004	372.8403	375.7700	374.4046	6.2228e-01	3.5705e+00
122	IPW000005	252.5194	254.4724	253.6455	3.7560e-01	2.8311e+00
123	IPW000006	264.7705	266.7236	265.8368	4.3070e-01	2.9001e+00
124	EMPTY	-0.0293	-0.0146	-0.0205	4.2262e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.6828e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0186	2.9354e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0146	2.6370e-03	0.0000e+00
128	IHT000001	130.8406	133.1843	131.8093	5.1515e-01	4.3067e+00
129	IHT000002	130.4312	132.5796	131.2403	4.9954e-01	4.3049e+00
130	IHT000003	129.3081	131.4566	130.2209	5.1116e-01	4.3018e+00
131	IHT000004	131.1035	133.8379	132.4468	5.4319e-01	4.3086e+00
132	IHT000005	129.6387	131.9824	130.6152	5.5386e-01	4.3030e+00
133	IHT000006	125.3906	127.7344	126.3313	5.4178e-01	4.2902e+00
134	IHT000007	131.7571	134.2961	132.7854	5.4922e-01	4.3097e+00
135	IHT000008	130.6152	132.9590	131.5121	4.9622e-01	4.3058e+00
136	IHT000009	130.0706	132.4144	131.0193	5.2438e-01	4.3043e+00
137	IHT000010	129.9204	133.0454	131.3354	5.7156e-01	4.3052e+00
138	IHT000011	130.8256	133.3646	132.1410	5.0552e-01	4.3077e+00
139	IHT000012	129.7964	132.5308	131.0998	5.4283e-01	4.3045e+00
140	IHT000013	91.7931	94.1369	92.8335	4.8237e-01	4.2038e+00
141	IHT000014	127.0771	129.6161	128.4802	5.0061e-01	4.2966e+00
142	IHT000015	94.1331	96.2815	95.4206	4.7662e-01	4.2096e+00
143	IHT000016	88.2812	90.4297	89.6564	4.7501e-01	4.1969e+00
144	IHT000017	103.8800	106.2237	105.3428	5.5260e-01	4.2332e+00
145	IHT000018	106.0021	108.5412	107.6403	5.4928e-01	4.2389e+00
146	IHT000019	107.2454	109.3938	108.2817	6.2556e-01	4.2406e+00
147	IHT000020	105.2133	107.5571	106.3573	6.1246e-01	4.2357e+00
148	IHT000021	-3.2114	-0.4770	-1.8083	7.4977e-01	4.1000e+00
149	IHT000022	91.9697	94.3134	93.1615	6.0757e-01	4.2045e+00
150	IHT000023	104.2368	106.7758	105.6199	6.0046e-01	4.2339e+00
151	IHT000024	69.5763	71.9201	70.7961	5.7017e-01	4.1607e+00
152	IHT000025	102.0207	104.1692	103.1806	5.7000e-01	4.2278e+00
153	IHT000026	104.5035	106.8472	105.7191	5.5137e-01	4.2341e+00
154	IHT000027	89.6146	91.5678	90.6949	5.0916e-01	4.1991e+00
155	IHT000028	90.6137	92.3716	91.4109	4.4006e-01	4.2007e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6378	107.5909	106.5545	3.9307e-01	4.2362e+00
157	IHT000030	107.9365	110.0849	109.0286	3.9652e-01	4.2425e+00
158	IHT000031	106.2124	107.9702	107.0056	3.8325e-01	4.2373e+00
159	IHT000032	107.0388	108.7966	107.9236	4.2958e-01	4.2397e+00
160	IHT000033	107.0313	108.5938	107.8683	4.2004e-01	4.2395e+00
161	IHT000034	93.7200	95.4778	94.7164	3.7239e-01	4.2080e+00
162	IHT000035	123.9258	125.6836	124.6951	3.8325e-01	4.2854e+00
163	IHT000036	92.5894	94.1519	93.3666	4.0753e-01	4.2050e+00

Velocity 1 = 0.052100 (ft/sec)
 Velocity 2 = 0.022400 (ft/sec)
 Pressure Drop = 0.010900 (psi)
 Tsat in = 0.149811 (deg F) Tsat out = 0.116516 (deg F)
 Phi inner = 0.110504 (kBtu/hr-ft2) Phi outer = 0.392601 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1455	0.1909
1	TRF000002	0.1481	0.1931
2	TFM000001	0.5467	0.6400
3	TIN000001	0.5434	0.6374
4	TRV000001	0.5935	0.6835
5	TSR000001	0.7466	0.4540
6	EMPTY	0.0092	0.0239
7	TAO050136	0.9811	0.4223
8	TAO070136	0.1251	0.0525
9	TAO080136	0.3783	0.1540
10	TAO090136	0.5868	0.2676
11	TAO100136	0.3225	0.1200
12	TAO105136	0.0551	0.0202
13	EMPTY	0.0000	0.0000
14	TAO115136	0.3573	0.1239
15	EMPTY	0.5815	1.5086
16	TAO125136	0.1834	0.0617
17	EMPTY	0.0803	0.1774
18	EMPTY	0.0109	0.0262
19	TAO130048	0.8195	0.2931
20	TAO120224	0.0178	0.0062
21	EMPTY	0.0186	0.0470
22	TAO120312	0.1505	0.0512
23	TAO130312	1.1159	0.3942
24	EMPTY	0.0187	0.0472
25	TRT070000	1.2986	0.5554
26	TRT100000	0.7159	0.2533
27	TRT120000	0.3444	0.1186
28	TRT125000	0.4337	0.1492
29	EMPTY	0.0040	0.0100
30	EMPTY	0.0392	0.0988
31	TAF050136	0.6842	0.4525
32	TAF070136	1.0692	0.6217
33	TAF080136	0.7816	0.4301
34	TAF090136	0.7342	0.3807
35	TAF100136	1.0680	0.5132
36	TAF105136	1.1041	0.5078
37	TAF110136	1.2066	0.5222
38	TAF115136	0.8036	0.3435
39	TAF120136	1.0855	0.4516
40	TAF125136	0.9113	0.3694
41	TAF130136	0.9290	0.3683
42	TAF120048	0.8802	0.3758
43	TAF130048	0.7383	0.3041
44	TAF120224	0.8929	0.3794
45	TAF130224	0.8157	0.3316

#	Name	Abs Diff	%Diff
46	EMPTY	0.0513	0.1350
47	EMPTY	0.0398	0.1002
48	TAI130048	0.7363	0.2495
49	TAI130136	0.4100	0.1379
50	TAI130224	0.3949	0.1330
51	TAI130312	0.6859	0.2333
52	TRR130000	3.5783	2.5093
53	TSI000001	0.5833	1.3595
54	TSI000002	2.9311	3.3039
55	TSO000001	0.5089	1.2459
56	TSO000002	0.4472	0.7971
57	TAF020136	0.8099	0.7149
58	EMPTY	0.1008	0.2337
59	TAF130312	0.7589	0.3024
60	EMPTY	0.0244	0.5452
61	EMPTY	0.0243	0.5449
62	EMPTY	0.0253	0.5690
63	EMPTY	0.0251	0.5653
64	EMPTY	0.0100	0.4827
65	EMPTY	0.0096	0.4611
66	EMPTY	0.0105	0.5025
67	EMPTY	0.0094	0.4484
68	EMPTY	0.0086	0.4094
69	EMPTY	0.0099	0.4693
70	EMPTY	0.0085	0.4017
71	EMPTY	0.0094	0.4411
72	EMPTY	0.0101	0.4730
73	EMPTY	0.0094	0.4381
74	EMPTY	0.0084	0.3905
75	EMPTY	0.0100	0.4630
76	EMPTY	0.0090	0.4157
77	EMPTY	0.0080	0.3677
78	EMPTY	0.0074	0.3380
79	EMPTY	0.0074	0.3356
80	PAN020136	0.4076	2.4159
81	PAN050136	0.7136	2.0379
82	PAN070136	1.5041	8.7921
83	PAN080136	0.5426	4.8192
84	PAN090136	0.2753	2.6452
85	PAN100136	0.0923	0.7501
86	PAN105136	0.0433	0.7585
87	PAN110136	0.1616	3.1507
88	PAN115136	0.5073	12.5361
89	PAN120136	0.7209	11.5490
90	PAN125136	0.5843	13.8907
91	PAN130136	0.1731	4.4538
92	PAN120048	0.0573	0.6118
93	PAN130048	0.2306	2.4326
94	PAN120224	0.4463	4.3685
95	PAN130224	0.3026	3.6167
96	PAN120312	1.1563	12.5953
97	PAN130312	0.4419	4.8653
98	PAB000136	0.1008	0.2508
99	PAB100136	0.0788	0.1796
100	PAB125136	0.0863	0.1919

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1804	0.4504
102	PRV000001	0.1295	0.8339
103	PSR000001	0.1221	0.2700
104	PFM000001	0.0506	3.2930
105	PAN000136	0.3013	0.2244
106	PFM000002	0.0216	1.4297
107	EMPTY	0.0002	28.5714
108	EMPTY	0.5451	9.0871
109	EMPTY	0.0002	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0390	0.0380
113	VPW000002	0.0734	0.0615
114	VPW000003	0.0539	0.0365
115	VPW000004	0.0332	0.0315
116	VPW000005	0.0174	0.0124
117	VPW000006	0.0112	0.0077
118	IPW000001	1.3656	0.2527
119	IPW000002	6.8832	0.5284
120	IPW000003	1.5890	0.1199
121	IPW000004	0.2462	0.0658
122	IPW000005	0.5206	0.2057
123	IPW000006	0.3107	0.1167
124	EMPTY	0.0001	0.4902
125	EMPTY	0.0016	12.6984
126	EMPTY	0.0021	12.7273
127	EMPTY	0.0009	5.8064
128	IHT000001	0.0743	0.0563
129	IHT000002	0.1088	0.0828
130	IHT000003	0.1263	0.0969
131	IHT000004	0.0512	0.0386
132	IHT000005	0.0977	0.0747
133	IHT000006	0.0867	0.0686
134	IHT000007	0.0497	0.0374
135	IHT000008	0.0562	0.0427
136	IHT000009	0.0670	0.0511
137	IHT000010	0.1592	0.1211
138	IHT000011	0.1925	0.1455
139	IHT000012	0.2083	0.1586
140	IHT000013	0.1393	0.1498
141	IHT000014	0.1164	0.0905
142	IHT000015	0.1852	0.1937
143	IHT000016	0.1327	0.1478
144	IHT000017	1.0996	1.0330
145	IHT000018	0.1899	0.1761
146	IHT000019	0.1746	0.1610
147	IHT000020	0.1686	0.1583
148	IHT000021	0.2493	15.9910
149	IHT000022	0.1910	0.2046
150	IHT000023	0.0700	0.0662
151	IHT000024	0.1279	0.1803
152	IHT000025	0.1213	0.1174
153	IHT000026	0.1046	0.0988
154	IHT000027	0.2010	0.2211
155	IHT000028	0.1404	0.1534

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1067	0.1000
157	IHT000030	0.1462	0.1339
158	IHT000031	0.0818	0.0764
159	IHT000032	0.1151	0.1065
160	IHT000033	0.1122	0.1039
161	IHT000034	0.1598	0.1684
162	IHT000035	0.0510	0.0409
163	IHT000036	0.2150	0.2297

Velocity 1 = 25.8801 (ft/sec) (+/- 3.4792 %)
 Velocity 2 = 13.3285 (ft/sec) (+/- 3.4863 %)
 Pressure drop = 21.0278 (psi)
 Tsat in = 267.7656 (deg F) Tsat out = 227.1521 (deg F)
 Phi inner = 199.9376 (kBtu/hr-ft2) (+/- 1.4541 %)
 Phi outer = 201.7099 (kBtu/hr-ft2) (+/- 1.3482 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flo, 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	80.1127	80.7477	80.4302	2.0620e-	1.9001e+00
1	TRF000002	80.6087	81.0299	80.8867	1.4391e-	1.9001e+00
2	TFM000001	84.8711	85.7116	85.1928	2.0051e-	1.9002e+00
3	TIN000001	84.9386	85.7800	85.3738	1.7134e-	1.9002e+00
4	TRV000001	85.0727	85.8082	85.4699	1.9923e-	1.9002e+00
5	TSR000001	122.8807	125.8258	125.1943	7.0936e-	1.9021e+00
6	EMPTY	38.2273	38.9168	38.4847	2.1599e-	1.9010e+00
7	TAO050136	140.0435	140.8462	140.4549	2.2341e-	1.9033e+00
8	TAO070136	138.8360	139.8475	139.3798	2.7245e-	1.9032e+00
9	TAO080136	139.4258	140.3303	139.9063	2.0331e-	1.9033e+00
10	TAO090136	162.4195	163.1128	162.8651	1.8024e-	1.9058e+00
11	TAO100136	142.5873	143.7920	143.0316	2.7456e-	1.9036e+00
12	TAO105136	142.9382	144.4440	143.6832	3.2277e-	1.9037e+00
13	EMPTY	-1.2025	3.5783	1.5056	1.2427e-	1.9000e+00
14	TAO115136	151.0719	152.0734	151.5308	2.4201e-	1.9045e+00
15	EMPTY	37.7675	37.9974	37.8503	1.1151e-	1.9010e+00
16	TAO125136	155.5250	156.5175	155.9874	2.3782e-	1.9050e+00
17	EMPTY	44.8706	45.7833	45.2814	1.7248e-	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6739	1.0842e-	1.9012e+00
19	TAO130048	148.6000	149.7968	149.1405	2.2737e-	1.9042e+00
20	TAO120224	148.4560	149.9565	149.0744	3.1877e-	1.9042e+00
21	EMPTY	39.1464	39.6057	39.3623	1.4230e-	1.9010e+00
22	TAO120312	158.0870	159.1810	158.6103	2.9916e-	1.9053e+00
23	TAO130312	152.0654	152.9628	152.5898	2.1667e-	1.9046e+00
24	EMPTY	38.9168	39.6057	39.3118	2.0243e-	1.9010e+00
25	TRT070000	136.9219	138.5471	137.7579	4.0522e-	1.9031e+00
26	TRT100000	151.7975	152.8938	152.3494	2.7038e-	1.9046e+00
27	TRT120000	151.3097	152.1087	151.7870	1.9173e-	1.9045e+00
28	TRT125000	156.4895	157.1839	156.8092	2.1970e-	1.9051e+00
29	EMPTY	39.8352	40.0646	40.0004	1.0404e-	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7939	2.0044e-	1.9011e+00
31	TAF050136	100.5722	101.5042	101.0753	2.2451e-	1.9007e+00
32	TAF070136	105.5687	106.4957	106.0153	2.4851e-	1.9009e+00
33	TAF080136	107.4384	108.2612	107.8883	2.0121e-	1.9010e+00
34	TAF090136	109.3652	110.4987	109.9280	2.3741e-	1.9011e+00
35	TAF100136	112.2896	113.0105	112.6337	1.8441e-	1.9012e+00
36	TAF105136	113.9380	115.1633	114.6625	2.7901e-	1.9013e+00
37	TAF110136	116.0718	116.9931	116.5367	2.2481e-	1.9015e+00
38	TAF115136	118.1664	119.0865	118.7085	2.2931e-	1.9016e+00
39	TAF120136	119.7671	120.3797	120.0842	1.8131e-	1.9017e+00
40	TAF125136	120.9660	122.1863	121.7444	2.9501e-	1.9018e+00
41	TAF130136	122.5858	123.2999	122.9999	1.9911e-	1.9019e+00
42	TAF120048	123.0716	124.0964	123.6391	2.2881e-	1.9019e+00
43	TAF130048	125.2489	125.9620	125.6258	1.7371e-	1.9021e+00
44	TAF120224	119.6054	120.6274	120.0736	2.2151e-	1.9017e+00
45	TAF130224	121.6307	122.2450	121.9441	1.6721e-	1.9018e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	7.5374	38.4572	37.9238	2.1513e-01	1.9010e+00
47	EMPTY	9.1464	39.3761	39.2245	1.0988e-01	1.9010e+00
48	TAI130048	4.6096	89.4363	87.4842	1.3802e+00	1.9002e+00
49	TAI130136	1.9034	155.6003	155.2995	1.7470e-01	1.9049e+00
50	TAI130224	1.0542	155.7521	155.3991	1.7353e-01	1.9049e+00
51	TAI130312	1.2829	266.6405	264.4850	1.0850e+00	1.9253e+00
52	TRR130000	1.8420	130.1691	129.2002	6.2641e-01	1.9024e+00
53	TSI000001	1.4039	43.2735	42.8498	2.0760e-01	1.9005e+00
54	TSI000002	1.0102	101.8076	100.6090	7.2176e-01	1.9006e+00
55	TSO000001	1.0628	41.9377	41.4500	2.2760e-01	1.9005e+00
56	TSO000002	1.5550	49.3140	48.9172	2.2181e-01	1.9003e+00
57	TAF020136	1.6337	91.5797	91.0394	2.2560e-01	1.9003e+00
58	EMPTY	1.4139	43.5000	43.2118	2.6058e-01	1.9013e+00
59	TAF130312	125.545	129.4666	129.1518	2.0632e-01	1.9024e+00
60	EMPTY	1.1379	1.3428	1.3410	2.3675e-03	0.0000e+00
61	EMPTY	1.1428	1.3525	1.3475	1.3811e-03	0.0000e+00
62	EMPTY	1.1525	1.3574	1.3534	1.8950e-03	0.0000e+00
63	EMPTY	1.1623	1.3672	1.3641	2.3675e-03	0.0000e+00
64	EMPTY	1.0520	0.7568	0.7535	2.3008e-03	0.0000e+00
65	EMPTY	1.0715	0.7764	0.7721	1.6028e-03	0.0000e+00
66	EMPTY	1.0361	0.7910	0.7862	6.9053e-04	0.0000e+00
67	EMPTY	1.0108	0.8057	0.8042	2.2603e-03	0.0000e+00
68	EMPTY	1.0005	0.8203	0.8154	9.8648e-04	0.0000e+00
69	EMPTY	1.0101	0.8350	0.8310	1.8950e-03	0.0000e+00
70	EMPTY	1.0047	0.8496	0.8449	9.6655e-04	0.0000e+00
71	EMPTY	1.0043	0.8691	0.8669	2.4583e-03	0.0000e+00
72	EMPTY	1.0040	0.8789	0.8788	6.9053e-04	0.0000e+00
73	EMPTY	1.0036	0.8984	0.8979	1.6028e-03	0.0000e+00
74	EMPTY	1.0082	0.9131	0.9104	2.4484e-03	0.0000e+00
75	EMPTY	1.0029	0.9277	0.9272	1.4797e-03	0.0000e+00
76	EMPTY	1.0075	0.9424	0.9376	6.9053e-04	0.0000e+00
77	EMPTY	1.0070	0.9570	0.9570	0.0000e+00	0.0000e+00
78	EMPTY	1.0056	0.9814	0.9768	9.6655e-04	0.0000e+00
79	EMPTY	1.0051	0.9961	0.9961	0.0000e+00	0.0000e+00
80	PAN020136	68.72	82.4811	73.2068	3.6760e+00	8.8904e-01
81	PAN050136	130.83	135.1567	133.2341	9.8696e-01	1.7127e+00
82	PAN070136	101.06	101.0356	101.0356	3.8534e-05	9.0593e-01
83	PAN080136	42.05	46.4705	44.0108	1.1468e+00	8.7693e-01
84	PAN090136	40.35	43.9763	42.1971	8.8417e-01	8.7637e-01
85	PAN100136	37.59	45.5065	42.2594	2.0095e+00	8.7639e-01
86	PAN105136	30.45	38.8901	34.2392	2.3050e+00	8.7420e-01
87	PAN110136	24.65	34.3229	28.7717	2.1694e+00	8.7297e-01
88	PAN115136	16.75	28.3865	22.6996	3.0936e+00	8.7185e-01
89	PAN120136	10.93	22.8919	16.6892	3.3722e+00	8.7100e-01
90	PAN125136	9.75	23.0327	15.7238	3.4942e+00	8.7089e-01
91	PAN130136	14.57	25.4097	21.3371	2.6723e+00	8.7163e-01
92	PAN120048	34.80	46.7052	41.2700	3.0670e+00	8.7610e-01
93	PAN130048	32.61	43.0680	37.3155	2.4779e+00	8.7499e-01
94	PAN120224	34.80	44.8786	40.2948	2.7435e+00	8.7581e-01
95	PAN130224	34.74	47.4125	41.6157	3.2405e+00	8.7620e-01
96	PAN120312	34.95	48.2297	41.5281	3.5767e+00	8.7617e-01
97	PAN130312	27.70	41.6640	36.6378	3.3141e+00	8.7481e-01
98	PAB000136	39.96	40.8851	40.2672	2.2940e-01	5.8867e-01
99	PAB100136	23.94	24.2163	24.0726	7.5706e-02	5.8311e-01
100	PAB125136	19.574	19.9864	19.7895	1.1960e-01	5.8211e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3043	40.7692	40.1491	3.1082e-01	7.5669e-01
102	PRV000001	19.4351	19.5572	19.5206	5.6508e-02	7.5159e-01
103	PSR000001	16.5430	16.6651	16.6334	5.4088e-02	7.5115e-01
104	PFM000001	102.5020	105.5232	104.7249	6.5160e-01	5.6440e-01
105	PAN000136	574.2737	591.6687	582.1655	3.9891e+00	5.1308e+00
106	PFM000002	27.5882	27.5882	27.5882	7.7069e-06	2.1156e-01
107	EMPTY	0.0098	0.0146	0.0099	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0063	2.2603e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0026	2.4583e-03	0.0000e+00
112	VPW000001	144.1106	145.0872	144.7355	2.0880e-01	1.1875e+00
113	VPW000002	168.5397	168.9303	168.7310	1.2156e-01	1.2965e+00
114	VPW000003	208.1393	208.7252	208.4674	1.3917e-01	1.4902e+00
115	VPW000004	147.9567	149.1286	148.5817	2.2668e-01	1.2045e+00
116	VPW000005	197.1154	198.0919	197.6622	2.6174e-01	1.4362e+00
117	VPW000006	206.8209	207.6022	207.2155	1.5530e-01	1.4839e+00
118	IPW000001	771.9266	779.7360	776.1827	1.9599e+00	1.0159e+01
119	IPW000002	1835.8821	1855.3948	1844.6624	5.2632e+00	1.6673e+01
120	IPW000003	1857.4501	1867.2001	1861.9739	2.5053e+00	1.6792e+01
121	IPW000004	538.4240	542.8185	540.3282	1.0216e+00	4.7139e+00
122	IPW000005	357.8556	360.2967	359.1934	7.0998e-01	3.4716e+00
123	IPW000006	375.4413	377.3944	376.1836	5.3343e-01	3.5822e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.7706e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.8523e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0169	3.4470e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	2.9594e-03	0.0000e+00
128	IHT000001	184.9384	187.6728	186.1220	6.4163e-01	4.5027e+00
129	IHT000002	184.3374	186.6812	185.3570	5.7085e-01	4.4995e+00
130	IHT000003	183.9994	186.3431	184.9330	5.3276e-01	4.4978e+00
131	IHT000004	186.1215	188.8559	187.3363	5.5001e-01	4.5077e+00
132	IHT000005	183.9017	186.6361	184.9604	5.0700e-01	4.4979e+00
133	IHT000006	179.2706	182.2003	180.4658	5.1696e-01	4.4796e+00
134	IHT000007	187.2183	190.1480	188.2887	4.9480e-01	4.5117e+00
135	IHT000008	185.8699	188.4090	186.7450	5.1181e-01	4.5053e+00
136	IHT000009	184.7694	187.5038	185.6913	5.0998e-01	4.5009e+00
137	IHT000010	185.1638	186.9216	185.9997	4.6192e-01	4.5022e+00
138	IHT000011	186.4746	188.4277	187.4121	4.4293e-01	4.5080e+00
139	IHT000012	184.8708	186.8239	185.9450	4.9951e-01	4.5019e+00
140	IHT000013	131.6556	133.4135	132.5151	4.5163e-01	4.3088e+00
141	IHT000014	180.9382	183.6726	182.6024	5.2828e-01	4.4882e+00
142	IHT000015	134.3525	136.5009	135.5010	4.1128e-01	4.3181e+00
143	IHT000016	125.9653	128.1137	127.0630	4.2479e-01	4.2924e+00
144	IHT000017	150.1540	153.4743	151.6266	6.8823e-01	4.3714e+00
145	IHT000018	152.0621	154.6011	153.3784	5.2765e-01	4.3775e+00
146	IHT000019	152.9334	155.0819	153.8515	4.7392e-01	4.3792e+00
147	IHT000020	151.1230	153.4668	152.1738	5.1432e-01	4.3733e+00
148	IHT000021	-3.6133	-0.4883	-1.9336	6.1511e-01	4.1000e+00
149	IHT000022	130.8519	133.1956	131.9613	5.0291e-01	4.3071e+00
150	IHT000023	149.1399	151.2883	150.2687	4.8695e-01	4.3667e+00
151	IHT000024	113.8034	115.9518	114.7760	4.8245e-01	4.2576e+00
152	IHT000025	146.6534	148.6065	147.7159	4.3968e-01	4.3580e+00
153	IHT000026	150.0113	152.1597	151.0230	4.7135e-01	4.3693e+00
154	IHT000027	127.8997	130.0481	128.8683	4.7835e-01	4.2978e+00
155	IHT000028	128.1175	131.0472	129.7581	7.0807e-01	4.3004e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.7258	152.8508	151.3312	6.8150e-01	4.3704e+00
157	IHT000030	152.9935	156.3138	154.5522	6.9976e-01	4.3816e+00
158	IHT000031	149.9136	153.2339	151.4409	7.0552e-01	4.3707e+00
159	IHT000032	151.1494	154.8603	152.7080	7.5746e-01	4.3752e+00
160	IHT000033	151.1343	154.8453	152.6577	7.4764e-01	4.3750e+00
161	IHT000034	133.3120	135.8511	134.3394	6.3969e-01	4.3145e+00
162	IHT000035	175.3005	178.2302	176.6246	6.5470e-01	4.4643e+00
163	IHT000036	131.6331	134.5628	132.8480	6.7921e-01	4.3099e+00

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Velocity 1 = 25.8515 (ft/sec) (+/- 3.4793 %)
Velocity 2 = 13.3286 (ft/sec) (+/- 3.4863 %)
Pressure drop = 21.0033 (psi)
Tsats in = 267.7358 (deg F) Tsats out = 227.2366 (deg F)
Phi inner = 200.9423 (kBtu/hr-ft2) (+/- 1.4534 %)
Phi outer = 201.4662 (kBtu/hr-ft2) (+/- 1.3487 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	80.3244	80.7477	80.5058	1.6166e-01	1.9001e+00
1	TRF000002	80.8193	81.2404	80.9439	1.1306e-01	1.9001e+00
2	TFM000001	84.9765	85.7116	85.2531	2.0295e-01	1.9002e+00
3	TIN000001	85.1484	85.7800	85.4149	1.4580e-01	1.9002e+00
4	TRV000001	84.9694	85.9123	85.5124	2.2525e-01	1.9002e+00
5	TSR000001	122.5780	125.5223	124.6143	9.1159e-01	1.9020e+00
6	EMPTY	37.9974	38.9168	38.5275	2.0016e-01	1.9010e+00
7	TAO050136	139.7436	140.9471	140.3082	2.2027e-01	1.9033e+00
8	TAO070136	138.7340	139.9480	139.4877	2.6285e-01	1.9033e+00
9	TAO080136	139.6274	140.3303	140.0105	1.5959e-01	1.9033e+00
10	TAO090136	162.9147	163.7056	163.3703	2.0161e-01	1.9059e+00
11	TAO100136	142.6881	143.8927	143.1903	2.3989e-01	1.9036e+00
12	TAO105136	143.2394	144.7453	143.8521	3.0887e-01	1.9037e+00
13	EMPTY	-1.2025	5.4839	2.2516	2.0569e+00	1.9000e+00
14	TAO115136	151.2723	152.2738	151.7138	2.1537e-01	1.9045e+00
15	EMPTY	37.7675	37.9974	37.8801	1.1615e-01	1.9010e+00
16	TAO125136	155.6244	156.6157	156.1325	2.5167e-01	1.9050e+00
17	EMPTY	44.8706	45.5552	45.2665	2.0182e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6646	1.1911e-01	1.9012e+00
19	TAO130048	148.8990	149.7968	149.3042	2.1094e-01	1.9042e+00
20	TAO120224	148.5560	149.7566	149.1605	3.0895e-01	1.9042e+00
21	EMPTY	39.1464	39.6057	39.3620	1.5830e-01	1.9010e+00
22	TAO120312	158.2859	159.4792	158.7609	2.8858e-01	1.9053e+00
23	TAO130312	152.2651	153.3605	152.7509	2.2140e-01	1.9046e+00
24	EMPTY	39.1464	39.6057	39.3105	1.7537e-01	1.9010e+00
25	TRT070000	136.9224	139.1577	137.8554	4.9283e-01	1.9031e+00
26	TRT100000	152.1959	152.8938	152.5153	1.8869e-01	1.9046e+00
27	TRT120000	151.6093	152.3081	151.9780	1.6203e-01	1.9045e+00
28	TRT125000	156.7869	157.2832	157.0198	1.5743e-01	1.9051e+00
29	EMPTY	39.8352	40.0646	39.9757	1.1296e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.8118	2.3068e-01	1.9011e+00
31	TAF050136	100.7799	101.8144	101.1555	1.9091e-01	1.9007e+00
32	TAF070136	105.5687	106.5975	106.1423	2.6488e-01	1.9009e+00
33	TAF080136	107.6445	108.3624	108.0088	1.7557e-01	1.9010e+00
34	TAF090136	109.5716	110.4987	110.1454	2.4244e-01	1.9011e+00
35	TAF100136	112.3928	113.1136	112.7647	1.6522e-01	1.9012e+00
36	TAF105136	114.2446	115.1633	114.8046	2.2710e-01	1.9014e+00
37	TAF110136	116.3799	117.1971	116.6715	1.5764e-01	1.9015e+00
38	TAF115136	118.4733	119.1891	118.8135	1.8479e-01	1.9016e+00
39	TAF120136	119.9718	120.4822	120.2404	1.4067e-01	1.9017e+00
40	TAF125136	121.2713	122.3890	121.8663	2.6942e-01	1.9018e+00
41	TAF130136	122.8923	123.5033	123.1331	1.3112e-01	1.9019e+00
42	TAF120048	123.3776	124.3009	123.7614	2.3473e-01	1.9019e+00
43	TAF130048	125.4527	125.9620	125.7374	1.4398e-01	1.9021e+00
44	TAF120224	119.8101	120.6274	120.1729	2.0005e-01	1.9017e+00
45	TAF130224	121.7331	122.2459	122.0278	1.4277e-01	1.9018e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9974	2.5708e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2402	1.1403e-01	1.9010e+00
48	TAI130048	79.9752	82.7163	81.3357	7.3075e-01	1.9001e+00
49	TAI130136	155.3011	155.7986	155.4294	1.1666e-01	1.9049e+00
50	TAI130224	155.1538	155.8517	155.5567	1.5627e-01	1.9049e+00
51	TAI130312	260.7969	264.3239	262.2200	1.1236e+00	1.9247e+00
52	TRR130000	129.3599	131.1788	130.2804	4.4410e-01	1.9024e+00
53	TSI000001	41.5353	42.2971	41.8885	1.6248e-01	1.9005e+00
54	TSI000002	99.3224	101.4984	100.2826	5.5216e-01	1.9006e+00
55	TSO000001	40.2952	41.2805	40.8517	2.1293e-01	1.9006e+00
56	TSO000002	48.2299	48.9890	48.4936	1.7559e-01	1.9003e+00
57	TAF020136	90.8432	91.5797	91.1784	1.9978e-01	1.9003e+00
58	EMPTY	42.8139	43.5000	43.1453	2.6841e-01	1.9013e+00
59	TAF130312	128.9590	129.6692	129.3295	1.7634e-01	1.9024e+00
60	EMPTY	1.3379	1.3477	1.3425	2.0926e-03	0.0000e+00
61	EMPTY	1.3477	1.3525	1.3485	1.8234e-03	0.0000e+00
62	EMPTY	1.3525	1.3574	1.3562	2.1215e-03	0.0000e+00
63	EMPTY	1.3623	1.3672	1.3667	1.4934e-03	0.0000e+00
64	EMPTY	0.7520	0.7568	0.7540	2.4414e-03	0.0000e+00
65	EMPTY	0.7715	0.7764	0.7730	2.2737e-03	0.0000e+00
66	EMPTY	0.7861	0.7910	0.7869	1.8234e-03	0.0000e+00
67	EMPTY	0.8008	0.8057	0.8052	1.4934e-03	0.0000e+00
68	EMPTY	0.8154	0.8154	0.8154	0.0000e+00	0.0000e+00
69	EMPTY	0.8301	0.8350	0.8328	2.4538e-03	0.0000e+00
70	EMPTY	0.8447	0.8496	0.8451	1.3508e-03	0.0000e+00
71	EMPTY	0.8643	0.8691	0.8682	1.9103e-03	0.0000e+00
72	EMPTY	0.8789	0.8789	0.8789	0.0000e+00	0.0000e+00
73	EMPTY	0.8936	0.8984	0.8982	9.7615e-04	0.0000e+00
74	EMPTY	0.9082	0.9131	0.9112	2.4037e-03	0.0000e+00
75	EMPTY	0.9277	0.9277	0.9277	0.0000e+00	0.0000e+00
76	EMPTY	0.9375	0.9424	0.9378	1.1827e-03	0.0000e+00
77	EMPTY	0.9570	0.9570	0.9570	0.0000e+00	0.0000e+00
78	EMPTY	0.9766	0.9814	0.9769	1.1827e-03	0.0000e+00
79	EMPTY	0.9961	1.0059	0.9964	1.5467e-03	0.0000e+00
80	PAN020136	69.2060	83.3966	74.1869	4.0024e+00	8.8955e-01
81	PAN050136	130.2739	135.0042	132.9427	1.0831e+00	1.7126e+00
82	PAN070136	101.0356	101.0356	101.0356	3.8542e-05	9.0593e-01
83	PAN080136	41.4351	47.8438	44.1116	1.2686e+00	8.7696e-01
84	PAN090136	40.6957	43.2897	42.1733	5.9398e-01	8.7637e-01
85	PAN100136	38.3349	44.7436	41.9923	1.4911e+00	8.7631e-01
86	PAN105136	27.9801	38.7375	34.0898	2.5296e+00	8.7416e-01
87	PAN110136	23.5655	34.6281	28.7830	2.3505e+00	8.7297e-01
88	PAN115136	15.7217	27.9287	22.3328	2.7709e+00	8.7179e-01
89	PAN120136	13.8892	24.4178	17.6883	2.4565e+00	8.7112e-01
90	PAN125136	10.1390	23.8719	15.9156	3.3850e+00	8.7091e-01
91	PAN130136	15.1100	26.0200	21.1808	2.6733e+00	8.7161e-01
92	PAN120048	34.6507	47.8496	41.3724	2.5915e+00	8.7613e-01
93	PAN130048	33.3024	43.0680	37.4098	2.6465e+00	8.7501e-01
94	PAN120224	33.9686	46.8622	38.6770	3.3811e+00	8.7536e-01
95	PAN130224	34.2899	47.0310	41.5223	3.9435e+00	8.7617e-01
96	PAN120312	36.7856	46.3224	40.8417	2.8679e+00	8.7597e-01
97	PAN130312	28.6941	41.5114	35.6493	3.5163e+00	8.7455e-01
98	PAB000136	39.9781	40.6563	40.2471	2.1439e-01	5.8866e-01
99	PAB100136	23.9417	24.2163	24.0958	7.8565e-02	5.8312e-01
100	PAB125136	19.5744	20.0322	19.8210	1.0523e-01	5.8211e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.5485	40.7692	40.1787	3.2901e-01	7.5670e-01
102	PRV0000001	19.4351	19.4351	19.4351	3.8542e-06	7.5157e-01
103	PSR0000001	16.5430	16.7872	16.6701	3.4877e-02	7.5116e-01
104	PFM0000001	103.4175	105.6148	104.4919	5.0103e-01	5.6413e-01
105	PAN000136	574.2737	592.5842	581.4857	4.6444e+00	5.1303e+00
106	PFM0000002	27.5882	27.5882	27.5882	5.7813e-06	2.1156e-01
107	EMPTY	0.0098	0.0098	0.0098	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0075	2.4621e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0028	2.4414e-03	0.0000e+00
112	VPW0000001	144.5012	144.8918	144.6845	1.1560e-01	1.1873e+00
113	VPW0000002	168.5397	168.9303	168.7628	9.7656e-02	1.2967e+00
114	VPW0000003	208.3346	208.9205	208.5618	1.1518e-01	1.4906e+00
115	VPW0000004	148.3474	148.9333	148.6622	1.4273e-01	1.2049e+00
116	VPW0000005	197.7013	198.8732	198.3390	3.6272e-01	1.4395e+00
117	VPW0000006	207.0162	207.6022	207.2076	1.4643e-01	1.4838e+00
118	IPW0000001	762.1649	771.9266	767.7428	2.3238e+00	1.0119e+01
119	IPW0000002	1837.8334	1857.3461	1849.7401	4.7000e+00	1.6708e+01
120	IPW0000003	1867.2001	1875.0001	1871.6575	2.0683e+00	1.6859e+01
121	IPW0000004	533.5412	537.4474	535.8928	1.3323e+00	4.6822e+00
122	IPW0000005	357.3673	361.2732	359.3103	1.0985e+00	3.4724e+00
123	IPW0000006	374.9530	378.3710	376.9062	7.3917e-01	3.5869e+00
124	EMPTY	-0.0244	-0.0146	-0.0199	3.5710e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0137	3.1486e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0163	3.0803e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.0238e-03	0.0000e+00
128	IHT0000001	184.9384	187.4775	186.1302	6.2942e-01	4.5027e+00
129	IHT0000002	184.1421	186.6812	185.3818	5.9875e-01	4.4996e+00
130	IHT0000003	183.8041	186.1478	184.9481	5.5243e-01	4.4978e+00
131	IHT0000004	186.1215	188.8559	187.3970	5.6255e-01	4.5080e+00
132	IHT0000005	183.7064	186.4408	184.9820	5.4241e-01	4.4980e+00
133	IHT0000006	179.0753	182.0049	180.4823	5.3187e-01	4.4797e+00
134	IHT0000007	187.2183	189.7574	188.3384	5.1332e-01	4.5119e+00
135	IHT0000008	185.6746	188.2137	186.8107	5.5196e-01	4.5055e+00
136	IHT0000009	184.5741	187.1131	185.7221	5.7170e-01	4.5010e+00
137	IHT0000010	184.5778	187.3122	186.1642	6.0938e-01	4.5029e+00
138	IHT0000011	185.8887	188.8183	187.5229	5.4765e-01	4.5085e+00
139	IHT0000012	184.6755	187.2146	185.9908	5.1177e-01	4.5021e+00
140	IHT0000013	131.2650	133.9994	132.5805	5.7190e-01	4.3090e+00
141	IHT0000014	182.1101	184.6492	183.1984	6.3913e-01	4.4907e+00
142	IHT0000015	134.5478	136.5009	135.5762	4.9599e-01	4.3183e+00
143	IHT0000016	125.9653	127.9184	127.0375	5.1847e-01	4.2923e+00
144	IHT0000017	150.1540	153.2790	151.4972	6.6906e-01	4.3709e+00
145	IHT0000018	152.2574	154.7964	153.3694	5.6832e-01	4.3775e+00
146	IHT0000019	152.9334	155.0819	153.8064	5.2906e-01	4.3790e+00
147	IHT0000020	151.1230	153.2715	152.1554	5.6663e-01	4.3732e+00
148	IHT0000021	-3.4180	-0.2930	-1.9990	7.3597e-01	4.1000e+00
149	IHT0000022	130.8519	133.3909	131.8843	5.6803e-01	4.3069e+00
150	IHT0000023	149.3352	151.8743	150.2160	5.5260e-01	4.3665e+00
151	IHT0000024	113.9987	116.3424	114.7839	5.5885e-01	4.2576e+00
152	IHT0000025	146.8487	149.5831	147.6977	5.7712e-01	4.3579e+00
153	IHT0000026	150.0113	152.7457	151.0356	6.0401e-01	4.3693e+00
154	IHT0000027	127.5090	130.2434	128.7964	6.1495e-01	4.2975e+00
155	IHT0000028	128.5081	131.0472	129.7956	6.6463e-01	4.3005e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	150.1164	152.8508	151.3998	6.2911e-01	4.3706e+00
157	IHT000030	153.3841	156.1185	154.6677	6.0199e-01	4.3820e+00
158	IHT000031	150.1089	152.8433	151.5040	6.1892e-01	4.3710e+00
159	IHT000032	151.5400	154.0790	152.8195	5.8738e-01	4.3755e+00
160	IHT000033	151.5249	153.8687	152.7446	5.7295e-01	4.3753e+00
161	IHT000034	133.5074	135.4605	134.5038	4.4260e-01	4.3150e+00
162	IHT000035	175.6911	178.2302	177.2934	6.0722e-01	4.4669e+00
163	IHT000036	132.0237	133.7815	132.9206	4.6990e-01	4.3101e+00

Velocity 1 = 0.028601 (ft/sec)
 Velocity 2 = 0.000100 (ft/sec)
 Pressure Drop = 0.024500 (psi)
 Tsat in = 0.029785 (deg F) Tsat out = 0.084503 (deg F)
 Phi inner = 1.004700 (kBtu/hr-ft2) Phi outer = 0.243698 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0756	0.0940
1	TRF000002	0.0572	0.0707
2	TFM000001	0.0603	0.0708
3	TIN000001	0.0411	0.0481
4	TRV000001	0.0425	0.0497
5	TSR000001	0.5800	0.4633
6	EMPTY	0.0428	0.1112
7	TAO050136	0.1467	0.1044
8	TAO070136	0.1079	0.0774
9	TAO080136	0.1042	0.0745
10	TAO090136	0.5052	0.3102
11	TAO100136	0.1587	0.1110
12	TAO105136	0.1689	0.1175
13	EMPTY	0.7460	49.5484
14	TAO115136	0.1830	0.1208
15	EMPTY	0.0298	0.0787
16	TAO125136	0.1451	0.0930
17	EMPTY	0.0149	0.0329
18	EMPTY	0.0093	0.0223
19	TAO130048	0.1637	0.1098
20	TAO120224	0.0861	0.0578
21	EMPTY	0.0003	0.0008
22	TAO120312	0.1506	0.0949
23	TAO130312	0.1611	0.1056
24	EMPTY	0.0013	0.0033
25	TRT070000	0.0975	0.0708
26	TRT100000	0.1659	0.1089
27	TRT120000	0.1910	0.1258
28	TRT125000	0.2106	0.1343
29	EMPTY	0.0247	0.0617
30	EMPTY	0.0179	0.0450
31	TAF050136	0.0802	0.0793
32	TAF070136	0.1270	0.1198
33	TAF080136	0.1205	0.1117
34	TAF090136	0.2174	0.1978
35	TAF100136	0.1310	0.1163
36	TAF105136	0.1421	0.1239
37	TAF110136	0.1348	0.1157
38	TAF115136	0.1050	0.0884
39	TAF120136	0.1562	0.1301
40	TAF125136	0.1219	0.1001
41	TAF130136	0.1332	0.1083
42	TAF120048	0.1223	0.0989
43	TAF130048	0.1116	0.0888
44	TAF120224	0.0993	0.0827
45	TAF130224	0.0837	0.0686

#	Name	Abs Diff	%Diff
46	EMPTY	0.0736	0.1941
47	EMPTY	0.0157	0.0400
48	TAI130048	6.1485	7.0281
49	TAI130136	0.1299	0.0836
50	TAI130224	0.1576	0.1014
51	TAI130312	2.2650	0.8564
52	TRR130000	1.0802	0.8361
53	TSI000001	0.9613	2.2434
54	TSI000002	0.3264	0.3244
55	TSO000001	0.5983	1.4434
56	TSO000002	0.4236	0.8660
57	TAF020136	0.1390	0.1527
58	EMPTY	0.0665	0.1539
59	TAF130312	0.1777	0.1376
60	EMPTY	0.0015	0.1119
61	EMPTY	0.0010	0.0742
62	EMPTY	0.0028	0.2069
63	EMPTY	0.0026	0.1906
64	EMPTY	0.0005	0.0664
65	EMPTY	0.0009	0.1166
66	EMPTY	0.0007	0.0890
67	EMPTY	0.0010	0.1243
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0018	0.2166
70	EMPTY	0.0002	0.0237
71	EMPTY	0.0013	0.1500
72	EMPTY	0.0001	0.0114
73	EMPTY	0.0003	0.0334
74	EMPTY	0.0008	0.0879
75	EMPTY	0.0005	0.0539
76	EMPTY	0.0002	0.0213
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0001	0.0102
79	EMPTY	0.0003	0.0301
80	PAN020136	0.9801	1.3388
81	PAN050136	0.2914	0.2187
82	PAN070136	0.0000	0.0000
83	PAN080136	0.1008	0.2290
84	PAN090136	0.0238	0.0564
85	PAN100136	0.2671	0.6321
86	PAN105136	0.1494	0.4363
87	PAN110136	0.0113	0.0393
88	PAN115136	0.3668	1.6159
89	PAN120136	0.9991	5.9865
90	PAN125136	0.1918	1.2198
91	PAN130136	0.1563	0.7325
92	PAN120048	0.1024	0.2481
93	PAN130048	0.0943	0.2527
94	PAN120224	1.6178	4.0149
95	PAN130224	0.0934	0.2244
96	PAN120312	0.6864	1.6529
97	PAN130312	0.9885	2.6980
98	PAB000136	0.0201	0.0499
99	PAB100136	0.0232	0.0964
100	PAB125136	0.0315	0.1592

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0296	0.0737
102	PRV000001	0.0855	0.4380
103	PSR000001	0.0367	0.2206
104	PFM000001	0.2330	0.2225
105	PAN000136	0.6798	0.1168
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.0101
108	EMPTY	0.0000	0.0000
109	EMPTY	0.0012	19.0476
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	7.6923
112	VPW000001	0.0510	0.0352
113	VPW000002	0.0318	0.0188
114	VPW000003	0.0944	0.0453
115	VPW000004	0.0805	0.0542
116	VPW000005	0.6768	0.3424
117	VPW000006	0.0079	0.0038
118	IPW000001	8.4399	1.0874
119	IPW000002	5.0778	0.2753
120	IPW000003	9.6836	0.5201
121	IPW000004	4.4354	0.8209
122	IPW000005	0.1169	0.0325
123	IPW000006	0.7226	0.1921
124	EMPTY	0.0013	6.1321
125	EMPTY	0.0002	1.4388
126	EMPTY	0.0006	3.5503
127	EMPTY	0.0005	3.0120
128	IHT000001	0.0082	0.0044
129	IHT000002	0.0248	0.0134
130	IHT000003	0.0151	0.0082
131	IHT000004	0.0607	0.0324
132	IHT000005	0.0216	0.0117
133	IHT000006	0.0165	0.0091
134	IHT000007	0.0497	0.0264
135	IHT000008	0.0657	0.0352
136	IHT000009	0.0308	0.0166
137	IHT000010	0.1645	0.0884
138	IHT000011	0.1108	0.0591
139	IHT000012	0.0458	0.0246
140	IHT000013	0.0654	0.0494
141	IHT000014	0.5960	0.3264
142	IHT000015	0.0752	0.0555
143	IHT000016	0.0255	0.0201
144	IHT000017	0.1294	0.0853
145	IHT000018	0.0090	0.0059
146	IHT000019	0.0451	0.0293
147	IHT000020	0.0184	0.0121
148	IHT000021	0.0654	3.3823
149	IHT000022	0.0770	0.0584
150	IHT000023	0.0527	0.0351
151	IHT000024	0.0079	0.0069
152	IHT000025	0.0182	0.0123
153	IHT000026	0.0126	0.0083
154	IHT000027	0.0719	0.0558
155	IHT000028	0.0375	0.0289

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0686	0.0453
157	IHT000030	0.1155	0.0747
158	IHT000031	0.0631	0.0417
159	IHT000032	0.1115	0.0730
160	IHT000033	0.0869	0.0569
161	IHT000034	0.1644	0.1224
162	IHT000035	0.6688	0.3787
163	IHT000036	0.0726	0.0546

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Velocity 1 = 19.8856 (ft/sec) (+/- 3.4946 %)
 Velocity 2 = 13.3285 (ft/sec) (+/- 3.4863 %)
 Pressure drop = 10.2943 (psi)
 Tsat in = 267.5822 (deg F) Tsat out = 250.6281 (deg F)
 Phi inner = 198.4065 (kBtu/hr-ft2) (+/- 1.4552 %)
 Phi outer = 200.8666 (kBtu/hr-ft2) (+/- 1.3484 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	80.5361	81.1709	80.7731	1.7956e-01	1.9001e+00
1	TRF000002	81.0299	81.4509	81.2699	1.4739e-01	1.9001e+00
2	TFM000001	84.6625	85.7123	85.1813	2.1572e-01	1.9002e+00
3	TIN000001	84.9380	85.6750	85.3232	1.7861e-01	1.9002e+00
4	TRV000001	85.1792	86.0184	85.6472	2.0565e-01	1.9002e+00
5	TSR000001	137.0313	137.9373	137.4522	2.1581e-01	1.9031e+00
6	EMPTY	38.2273	38.9168	38.4296	2.0046e-01	1.9010e+00
7	TAO050136	150.6266	152.4174	151.2819	3.8912e-01	1.9044e+00
8	TAO070136	151.1318	152.7369	151.8487	4.1271e-01	1.9045e+00
9	TAO080136	151.2926	151.9900	151.6768	1.8330e-01	1.9045e+00
10	TAO090136	171.3873	172.0762	171.7041	2.0277e-01	1.9070e+00
11	TAO100136	157.3669	158.4593	157.7903	2.7200e-01	1.9052e+00
12	TAO105136	157.7215	159.3107	158.3991	3.8109e-01	1.9053e+00
13	EMPTY	12.8323	15.4262	13.9224	5.8135e-01	1.9001e+00
14	TAO115136	170.9796	172.1644	171.5426	2.9538e-01	1.9069e+00
15	EMPTY	31.5371	40.9819	36.1850	2.5686e+00	1.9009e+00
16	TAO125136	173.1476	174.1254	173.5721	2.3275e-01	1.9072e+00
17	EMPTY	44.8706	45.7833	45.2951	2.0620e-01	1.9014e+00
18	EMPTY	41.6693	41.8984	41.7014	8.0275e-02	1.9012e+00
19	TAO130048	165.5275	166.4144	165.9004	1.9544e-01	1.9062e+00
20	TAO120224	166.0511	167.5323	166.7165	3.1653e-01	1.9063e+00
21	EMPTY	39.1464	39.8352	39.4128	1.6955e-01	1.9010e+00
22	TAO120312	176.3679	177.6436	177.0489	3.1312e-01	1.9077e+00
23	TAO130312	169.5701	170.2590	169.9692	1.6802e-01	1.9067e+00
24	EMPTY	39.1464	39.6057	39.3715	1.7038e-01	1.9010e+00
25	TRT070000	146.8491	148.0584	147.4923	2.6837e-01	1.9040e+00
26	TRT100000	168.3323	169.0216	168.6808	1.8031e-01	1.9065e+00
27	TRT120000	169.5472	170.2361	169.8756	1.4970e-01	1.9067e+00
28	TRT125000	174.6530	175.4358	175.0739	1.7151e-01	1.9074e+00
29	EMPTY	39.8352	40.2940	40.0142	1.0662e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.8122	2.1871e-01	1.9011e+00
31	TAF050136	105.2180	106.6614	105.9626	2.6699e-01	1.9009e+00
32	TAF070136	111.8246	112.6444	112.1958	2.5510e-01	1.9012e+00
33	TAF080136	114.2855	115.2051	114.7745	2.0053e-01	1.9014e+00
34	TAF090136	116.8617	117.7841	117.3883	2.3853e-01	1.9015e+00
35	TAF100136	120.6053	121.4240	120.9510	1.6782e-01	1.9017e+00
36	TAF105136	122.9672	124.0817	123.5373	2.3846e-01	1.9019e+00
37	TAF110136	125.7332	126.5444	126.1008	1.7615e-01	1.9021e+00
38	TAF115136	128.3410	129.1521	128.7570	2.0412e-01	1.9023e+00
39	TAF120136	130.2007	131.0091	130.6959	1.9298e-01	1.9025e+00
40	TAF125136	132.1803	133.2871	132.7415	2.8845e-01	1.9027e+00
41	TAF130136	133.9343	134.6411	134.3164	1.5852e-01	1.9028e+00
42	TAF120048	134.6228	135.8425	135.1974	2.4168e-01	1.9029e+00
43	TAF130048	137.7048	138.3097	138.0338	1.2859e-01	1.9031e+00
44	TAF120224	130.3828	131.1935	130.8308	2.1568e-01	1.9025e+00
45	TAF130224	132.7690	133.3781	133.1240	1.5244e-01	1.9027e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.3074	38.4572	37.9744	2.4252e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3026	1.2654e-01	1.9010e+00
48	TAI130048	89.8550	94.1403	91.4181	8.7517e-01	1.9003e+00
49	TAI130136	171.6716	172.1626	171.9019	1.2342e-01	1.9070e+00
50	TAI130224	171.4210	172.1104	171.8050	1.5831e-01	1.9070e+00
51	TAI130312	277.3482	279.3722	278.2776	4.8144e-01	1.9290e+00
52	TRR130000	130.6745	132.5937	131.5581	5.6225e-01	1.9026e+00
53	TSI000001	42.4051	43.4925	42.8815	2.1725e-01	1.9005e+00
54	TSI000002	99.9450	101.7061	100.8049	4.4256e-01	1.9006e+00
55	TSO000001	41.0608	41.8269	41.4351	2.0861e-01	1.9005e+00
56	TSO000002	50.8282	51.6937	51.2716	1.9931e-01	1.9002e+00
57	TAF020136	92.8418	93.5771	93.3092	2.0130e-01	1.9004e+00
58	EMPTY	42.5851	43.5000	43.0792	2.7475e-01	1.9012e+00
59	TAF130312	142.1659	142.9692	142.5416	1.8569e-01	1.9035e+00
60	EMPTY	1.6504	1.6602	1.6533	2.6100e-03	0.0000e+00
61	EMPTY	1.6553	1.6602	1.6575	2.4583e-03	0.0000e+00
62	EMPTY	1.6602	1.6650	1.6622	2.4344e-03	0.0000e+00
63	EMPTY	1.6699	1.6748	1.6713	2.2146e-03	0.0000e+00
64	EMPTY	0.8838	0.8887	0.8853	2.2603e-03	0.0000e+00
65	EMPTY	0.9033	0.9082	0.9037	1.3381e-03	0.0000e+00
66	EMPTY	0.9180	0.9229	0.9181	6.9053e-04	0.0000e+00
67	EMPTY	0.9277	0.9375	0.9327	1.2041e-03	0.0000e+00
68	EMPTY	0.9424	0.9473	0.9442	2.3941e-03	0.0000e+00
69	EMPTY	0.9570	0.9619	0.9613	1.6028e-03	0.0000e+00
70	EMPTY	0.9717	0.9766	0.9722	1.4797e-03	0.0000e+00
71	EMPTY	0.9912	0.9961	0.9955	1.6028e-03	0.0000e+00
72	EMPTY	1.0059	1.0059	1.0059	0.0000e+00	0.0000e+00
73	EMPTY	1.0205	1.0254	1.0215	1.9730e-03	0.0000e+00
74	EMPTY	1.0352	1.0400	1.0354	1.1714e-03	0.0000e+00
75	EMPTY	1.0498	1.0547	1.0500	9.6655e-04	0.0000e+00
76	EMPTY	1.0596	1.0645	1.0641	1.3381e-03	0.0000e+00
77	EMPTY	1.0791	1.0840	1.0795	1.3381e-03	0.0000e+00
78	EMPTY	1.0986	1.1035	1.0990	1.3381e-03	0.0000e+00
79	EMPTY	1.1182	1.1230	1.1209	2.4484e-03	0.0000e+00
80	PAN020136	32.9663	49.0644	40.5713	5.1186e+00	8.7589e-01
81	PAN050136	60.0835	66.3396	63.1292	1.2613e+00	1.6874e+00
82	PAN070136	48.3928	53.8859	51.4155	1.4046e+00	8.7944e-01
83	PAN080136	19.9965	24.0401	21.5605	1.0234e+00	8.7167e-01
84	PAN090136	18.0364	20.7830	19.3837	6.3038e-01	8.7135e-01
85	PAN100136	16.2859	21.4739	19.5681	1.4906e+00	8.7137e-01
86	PAN105136	13.4842	21.5714	17.7628	2.1870e+00	8.7113e-01
87	PAN110136	6.2467	18.6826	13.6854	3.0638e+00	8.7067e-01
88	PAN115136	4.2013	18.7735	10.6482	3.4634e+00	8.7041e-01
89	PAN120136	-4.1161	10.1508	1.6990	3.8072e+00	8.7001e-01
90	PAN125136	0.7549	17.3870	10.7433	3.9469e+00	8.7041e-01
91	PAN130136	8.4724	17.5514	13.6039	2.6838e+00	8.7066e-01
92	PAN120048	12.8307	23.8170	18.8076	3.1265e+00	8.7127e-01
93	PAN130048	15.3733	23.7657	19.1301	2.5832e+00	8.7131e-01
94	PAN120224	7.4183	23.4400	12.6764	4.1942e+00	8.7058e-01
95	PAN130224	18.5734	31.6959	27.4754	3.4087e+00	8.7271e-01
96	PAN120312	14.0500	25.3415	19.1144	3.0462e+00	8.7131e-01
97	PAN130312	12.9012	23.8875	18.8064	2.9791e+00	8.7127e-01
98	PAB000136	39.5576	40.6105	40.1436	2.5428e-01	5.8862e-01
99	PAB100136	31.9068	32.1814	32.0633	7.2873e-02	5.8551e-01
100	PAB125136	29.8283	30.2861	30.0929	1.1635e-01	5.8486e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9381	40.4030	39.7975	3.6825e-01	7.5657e-01
102	PRV000001	20.0455	20.1676	20.0504	2.4164e-02	7.5167e-01
103	PSR000001	28.2618	28.3838	28.3423	5.8413e-02	7.5334e-01
104	PFM000001	60.7539	62.3103	61.6951	3.5532e-01	5.2325e-01
105	PAN000136	272.6074	296.4111	285.0036	6.8567e+00	4.9713e+00
106	PFM000002	27.5882	27.5882	27.5882	7.7069e-06	2.1156e-01
107	EMPTY	0.0049	0.0098	0.0092	1.6028e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0006	1.6028e-03	0.0000e+00
112	VPW000001	144.3059	145.0872	144.7316	2.0764e-01	1.1875e+00
113	VPW000002	168.5397	168.9303	168.7974	1.1464e-01	1.2969e+00
114	VPW000003	208.3346	208.9205	208.6198	1.2608e-01	1.4909e+00
115	VPW000004	148.5427	149.1286	148.7067	1.5465e-01	1.2051e+00
116	VPW000005	197.7013	199.2638	198.3302	4.1440e-01	1.4395e+00
117	VPW000006	207.0162	207.6022	207.3366	1.3532e-01	1.4845e+00
118	IPW000001	791.4500	797.3071	794.2223	1.4806e+00	1.0246e+01
119	IPW000002	1808.5643	1816.3694	1812.3501	1.4965e+00	1.6450e+01
120	IPW000003	1843.8000	1849.6501	1845.9448	1.3789e+00	1.6682e+01
121	IPW000004	540.3771	542.8185	541.6270	5.3270e-01	4.7232e+00
122	IPW000005	356.8791	359.8085	358.2852	7.8688e-01	3.4658e+00
123	IPW000006	372.5116	374.4647	373.5078	4.7269e-01	3.5646e+00
124	EMPTY	-0.0293	-0.0098	-0.0193	3.9410e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	3.5568e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0152	3.6433e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0163	3.0581e-03	0.0000e+00
128	IHT000001	184.5478	186.8915	185.9384	5.6171e-01	4.5019e+00
129	IHT000002	184.1421	186.4859	185.2164	5.8826e-01	4.4989e+00
130	IHT000003	183.8041	185.9525	184.8041	5.4196e-01	4.4972e+00
131	IHT000004	186.3168	188.4653	187.2387	5.0692e-01	4.5073e+00
132	IHT000005	183.9017	186.2455	184.8822	5.2717e-01	4.4976e+00
133	IHT000006	179.2706	181.4190	180.3565	5.1624e-01	4.4792e+00
134	IHT000007	187.2183	189.3667	188.2222	5.0994e-01	4.5114e+00
135	IHT000008	185.6746	187.6277	186.6786	5.4249e-01	4.5050e+00
136	IHT000009	184.5741	186.7225	185.5780	5.2350e-01	4.5004e+00
137	IHT000010	184.3825	187.1169	185.9098	5.9148e-01	4.5018e+00
138	IHT000011	185.8887	188.6230	187.2910	6.2973e-01	4.5075e+00
139	IHT000012	184.2849	187.2146	185.7848	6.8962e-01	4.5013e+00
140	IHT000013	130.8744	133.8041	132.4135	6.5512e-01	4.3085e+00
141	IHT000014	181.1336	184.8445	182.9344	7.6544e-01	4.4896e+00
142	IHT000015	134.3525	136.6962	135.3955	6.2839e-01	4.3178e+00
143	IHT000016	125.5747	128.1137	126.8755	6.4671e-01	4.2918e+00
144	IHT000017	149.3727	152.6931	150.9156	6.8146e-01	4.3689e+00
145	IHT000018	151.2808	154.7964	152.8589	6.9120e-01	4.3757e+00
146	IHT000019	152.3475	155.4725	153.8398	6.5288e-01	4.3791e+00
147	IHT000020	150.7324	153.4668	152.0488	6.2864e-01	4.3729e+00
148	IHT000021	-3.4180	0.0976	-1.7500	7.8840e-01	4.1000e+00
149	IHT000022	130.8519	133.1956	131.9066	5.4960e-01	4.3070e+00
150	IHT000023	148.9446	151.4836	150.1320	5.9952e-01	4.3662e+00
151	IHT000024	113.2174	115.9518	114.6315	5.6160e-01	4.2572e+00
152	IHT000025	146.4581	148.9971	147.6729	6.0784e-01	4.3578e+00
153	IHT000026	149.8160	152.1597	150.9097	6.0232e-01	4.3689e+00
154	IHT000027	127.8997	130.0481	128.8566	6.0135e-01	4.2977e+00
155	IHT000028	128.1175	131.0472	129.4105	7.1451e-01	4.2994e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.7258	152.4602	150.9249	6.7198e-01	4.3690e+00
157	IHT000030	152.7982	155.5326	154.1811	6.5297e-01	4.3803e+00
158	IHT000031	149.7183	152.4527	151.0386	6.8067e-01	4.3694e+00
159	IHT000032	150.9540	153.8837	152.3994	7.1463e-01	4.3741e+00
160	IHT000033	150.7437	154.0640	152.3179	7.2803e-01	4.3738e+00
161	IHT000034	132.9214	135.4605	134.2495	5.7453e-01	4.3142e+00
162	IHT000035	175.4958	178.2302	176.9371	6.6485e-01	4.4655e+00
163	IHT000036	131.6331	134.1722	132.7972	5.9837e-01	4.3097e+00

Velocity 1 = 19.8264 (ft/sec) (+/- 3.4949 %)
Velocity 2 = 13.3288 (ft/sec) (+/- 3.4863 %)
Pressure drop = 10.2711 (psi)
Tsat in = 267.6042 (deg F) Tsat out = 250.6584 (deg F)
Phi inner = 200.1240 (kBtu/hr-ft2) (+/- 1.4540 %)
Phi outer = 200.8369 (kBtu/hr-ft2) (+/- 1.3491 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	80.5361	81.1709	80.8513	1.7343e-01	1.9001e+00
1	TRF000002	81.0299	81.6614	81.3135	1.4604e-01	1.9001e+00
2	TFM000001	84.9778	85.8172	85.4382	2.0194e-01	1.9002e+00
3	TIN000001	85.2538	85.9902	85.5565	1.6012e-01	1.9002e+00
4	TRV000001	85.4947	86.2286	85.8686	1.7653e-01	1.9002e+00
5	TSR000001	137.3325	138.2393	137.7830	2.0247e-01	1.9031e+00
6	EMPTY	37.9974	38.9168	38.5181	2.1382e-01	1.9010e+00
7	TAO050136	151.7213	153.1131	152.2729	2.6084e-01	1.9046e+00
8	TAO070136	152.4364	153.8384	153.0068	3.2717e-01	1.9046e+00
9	TAO080136	151.5900	152.2880	152.0110	1.8317e-01	1.9045e+00
10	TAO090136	171.9765	172.8608	172.4340	2.0208e-01	1.9071e+00
11	TAO100136	157.7644	158.8566	158.1699	2.7326e-01	1.9052e+00
12	TAO105136	158.2184	159.5087	158.7555	3.1256e-01	1.9053e+00
13	EMPTY	1.1909	9.2837	5.5109	2.0317e+00	1.9000e+00
14	TAO115136	170.2875	171.3740	170.7291	2.5436e-01	1.9068e+00
15	EMPTY	31.7686	41.8984	36.4111	2.6415e+00	1.9009e+00
16	TAO125136	172.9508	174.2249	173.4614	2.9715e-01	1.9072e+00
17	EMPTY	44.8706	45.7833	45.2758	2.1478e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.7254	1.0994e-01	1.9012e+00
19	TAO130048	165.7243	166.6105	166.0408	1.7652e-01	1.9062e+00
20	TAO120224	165.5571	166.8409	166.0228	2.9499e-01	1.9062e+00
21	EMPTY	39.1464	39.8352	39.4089	1.6235e-01	1.9010e+00
22	TAO120312	176.3673	177.3492	176.8625	2.7606e-01	1.9077e+00
23	TAO130312	169.7662	170.5537	170.1720	1.8361e-01	1.9067e+00
24	EMPTY	39.1464	39.8352	39.3573	2.0341e-01	1.9010e+00
25	TRT070000	147.7554	148.8654	148.2687	2.5004e-01	1.9041e+00
26	TRT100000	168.5287	169.3172	169.0153	2.0138e-01	1.9066e+00
27	TRT120000	169.6452	170.2361	169.9407	1.6579e-01	1.9067e+00
28	TRT125000	174.7510	175.5342	175.0192	1.6322e-01	1.9074e+00
29	EMPTY	39.8352	40.2940	40.0272	1.1800e-01	1.9011e+00
30	EMPTY	39.3761	40.2940	39.8071	2.0221e-01	1.9011e+00
31	TAF050136	105.7347	106.7650	106.2723	2.4838e-01	1.9009e+00
32	TAF070136	111.9278	113.0545	112.5105	2.5454e-01	1.9012e+00
33	TAF080136	114.6948	115.8176	115.1341	2.2857e-01	1.9014e+00
34	TAF090136	117.1692	118.1927	117.7145	2.7988e-01	1.9015e+00
35	TAF100136	120.9125	121.9349	121.3547	2.1425e-01	1.9018e+00
36	TAF105136	123.2716	124.2857	123.8958	2.4730e-01	1.9020e+00
37	TAF110136	126.0378	126.9498	126.4578	1.9203e-01	1.9021e+00
38	TAF115136	128.5441	129.5576	129.1440	2.0039e-01	1.9024e+00
39	TAF120136	130.6041	131.4136	130.9882	1.8799e-01	1.9025e+00
40	TAF125136	132.4809	133.8914	133.1268	3.2097e-01	1.9027e+00
41	TAF130136	134.4387	135.2471	134.7565	1.8898e-01	1.9028e+00
42	TAF120048	134.8264	135.9438	135.4372	2.4231e-01	1.9029e+00
43	TAF130048	138.0072	138.5120	138.2482	1.6055e-01	1.9031e+00
44	TAF120224	130.4846	131.3964	130.9785	2.0221e-01	1.9025e+00
45	TAF130224	133.0740	133.8859	133.4466	1.7746e-01	1.9027e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	37.9692	2.1831e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3199	1.1978e-01	1.9010e+00
48	TAI130048	89.1224	95.0792	92.0659	1.5495e+00	1.9003e+00
49	TAI130136	172.1618	172.7513	172.4027	1.4328e-01	1.9071e+00
50	TAI130224	172.0120	172.8003	172.3861	1.8753e-01	1.9070e+00
51	TAI130312	268.5838	271.0793	270.0081	5.2070e-01	1.9268e+00
52	TRR130000	128.1482	131.3826	129.7414	7.8313e-01	1.9024e+00
53	TSI000001	42.6223	43.3841	42.9933	1.8830e-01	1.9005e+00
54	TSI000002	97.5594	99.9451	98.6249	5.8705e-01	1.9006e+00
55	TSO000001	40.9520	41.9356	41.4358	2.3415e-01	1.9005e+00
56	TSO000002	50.9362	51.8010	51.3292	2.0312e-01	1.9002e+00
57	TAF020136	93.1551	94.2045	93.6058	2.5342e-01	1.9004e+00
58	EMPTY	42.8139	43.5000	43.1266	2.5006e-01	1.9013e+00
59	TAF130312	142.4673	143.3707	142.8625	1.9260e-01	1.9036e+00
60	EMPTY	1.6553	1.6650	1.6590	2.3440e-03	0.0000e+00
61	EMPTY	1.6602	1.6699	1.6641	2.1547e-03	0.0000e+00
62	EMPTY	1.6650	1.6699	1.6690	1.9103e-03	0.0000e+00
63	EMPTY	1.6748	1.6797	1.6785	2.1215e-03	0.0000e+00
64	EMPTY	0.8887	0.8936	0.8888	6.9754e-04	0.0000e+00
65	EMPTY	0.9033	0.9131	0.9074	2.0781e-03	0.0000e+00
66	EMPTY	0.9180	0.9229	0.9205	2.4662e-03	0.0000e+00
67	EMPTY	0.9326	0.9424	0.9371	1.6787e-03	0.0000e+00
68	EMPTY	0.9424	0.9473	0.9471	9.7615e-04	0.0000e+00
69	EMPTY	0.9619	0.9668	0.9622	1.1827e-03	0.0000e+00
70	EMPTY	0.9717	0.9766	0.9765	6.9754e-04	0.0000e+00
71	EMPTY	0.9961	1.0010	0.9963	9.7615e-04	0.0000e+00
72	EMPTY	1.0059	1.0107	1.0088	2.4037e-03	0.0000e+00
73	EMPTY	1.0205	1.0254	1.0253	6.9754e-04	0.0000e+00
74	EMPTY	1.0352	1.0449	1.0388	2.3440e-03	0.0000e+00
75	EMPTY	1.0498	1.0547	1.0539	1.8234e-03	0.0000e+00
76	EMPTY	1.0645	1.0693	1.0646	6.9754e-04	0.0000e+00
77	EMPTY	1.0791	1.0840	1.0834	1.6172e-03	0.0000e+00
78	EMPTY	1.1035	1.1035	1.1035	0.0000e+00	0.0000e+00
79	EMPTY	1.1182	1.1279	1.1229	1.2165e-03	0.0000e+00
80	PAN020136	32.0508	49.8273	41.7152	5.4410e+00	8.7623e-01
81	PAN050136	59.7783	64.5085	62.4315	1.1481e+00	1.6872e+00
82	PAN070136	48.3928	54.7252	51.4663	1.4453e+00	8.7946e-01
83	PAN080136	20.2254	24.1164	21.6828	1.1160e+00	8.7169e-01
84	PAN090136	17.9601	19.9437	19.0827	5.4373e-01	8.7131e-01
85	PAN100136	16.4385	21.7791	19.7347	1.4576e+00	8.7140e-01
86	PAN105136	13.7894	21.9529	17.6960	2.2693e+00	8.7112e-01
87	PAN110136	7.3911	18.3775	13.9618	2.8051e+00	8.7070e-01
88	PAN115136	5.2694	18.0105	10.7455	3.0182e+00	8.7041e-01
89	PAN120136	-0.7592	12.5922	6.0808	3.1273e+00	8.7013e-01
90	PAN125136	0.2208	16.3951	7.3006	4.1495e+00	8.7019e-01
91	PAN130136	7.3280	16.2544	12.0193	2.4885e+00	8.7052e-01
92	PAN120048	15.0432	23.2066	19.4574	1.9378e+00	8.7136e-01
93	PAN130048	14.8393	21.6294	17.9720	2.1857e+00	8.7116e-01
94	PAN120224	11.0041	26.1103	16.2855	4.5713e+00	8.7095e-01
95	PAN130224	16.7423	29.6360	23.3643	3.6645e+00	8.7196e-01
96	PAN120312	14.8130	24.9601	19.2520	2.7882e+00	8.7133e-01
97	PAN130312	13.2064	23.0483	17.7280	2.8032e+00	8.7113e-01
98	PAB000136	39.6949	40.5647	40.1583	2.3071e-01	5.8862e-01
99	PAB100136	31.9068	32.2272	32.0861	8.5045e-02	5.8552e-01
100	PAB125136	29.9199	30.2861	30.1086	1.1657e-01	5.8486e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.6940	40.7692	39.9197	3.7786e-01	7.5661e-01
102	PRV000001	19.8013	19.9234	19.8138	3.7334e-02	7.5163e-01
103	PSR000001	28.2618	28.3838	28.3764	2.9569e-02	7.5335e-01
104	PFM000001	60.2962	62.0357	61.3238	4.1295e-01	5.2298e-01
105	PAN000136	272.1497	296.4111	284.3598	6.3728e+00	4.9711e+00
106	PFM000002	27.5882	27.5882	27.5882	5.7813e-06	2.1156e-01
107	EMPTY	0.0049	0.0098	0.0088	1.9883e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0050	6.9754e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.7615e-04	0.0000e+00
112	VPW000001	144.5012	145.2825	144.8678	2.0185e-01	1.1881e+00
113	VPW000002	168.5397	169.1256	168.9302	1.4375e-01	1.2975e+00
114	VPW000003	208.3346	209.1158	208.6375	1.9145e-01	1.4910e+00
115	VPW000004	147.3708	149.3239	148.6821	4.1814e-01	1.2050e+00
116	VPW000005	197.1154	198.6779	197.9125	3.1603e-01	1.4374e+00
117	VPW000006	207.0162	207.7975	207.4826	2.0645e-01	1.4852e+00
118	IPW000001	773.8789	781.6883	777.5446	1.8959e+00	1.0166e+01
119	IPW000002	1824.1744	1839.7845	1831.1827	3.6269e+00	1.6580e+01
120	IPW000003	1855.5001	1869.1501	1863.4194	2.8539e+00	1.6802e+01
121	IPW000004	529.1467	539.4006	536.7299	1.8273e+00	4.6882e+00
122	IPW000005	355.4144	358.3438	356.7295	8.6425e-01	3.4557e+00
123	IPW000006	373.9764	376.4178	374.8136	6.6114e-01	3.5732e+00
124	EMPTY	-0.0244	-0.0146	-0.0198	3.3665e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.3740e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0155	3.1000e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	3.4497e-03	0.0000e+00
128	IHT000001	184.7431	187.4775	186.0266	7.1318e-01	4.5023e+00
129	IHT000002	184.1421	186.6812	185.2861	6.3913e-01	4.4992e+00
130	IHT000003	183.6088	186.3431	184.8445	6.0251e-01	4.4974e+00
131	IHT000004	186.3168	188.6606	187.2775	5.7476e-01	4.5075e+00
132	IHT000005	183.9017	186.2455	184.8385	5.6096e-01	4.4974e+00
133	IHT000006	179.4659	181.8096	180.3388	6.0476e-01	4.4791e+00
134	IHT000007	187.2183	189.5620	188.1989	6.0264e-01	4.5113e+00
135	IHT000008	185.6746	188.2137	186.6911	5.9131e-01	4.5050e+00
136	IHT000009	184.5741	187.1131	185.5587	6.2015e-01	4.5004e+00
137	IHT000010	184.3825	187.5075	185.9609	5.8026e-01	4.5020e+00
138	IHT000011	185.8887	188.8183	187.3635	5.3050e-01	4.5078e+00
139	IHT000012	184.4802	187.8005	185.8393	6.0062e-01	4.5015e+00
140	IHT000013	131.0697	133.9994	132.3174	5.9778e-01	4.3082e+00
141	IHT000014	181.3289	184.4539	182.5208	6.2815e-01	4.4879e+00
142	IHT000015	133.7665	136.6962	135.2693	5.5559e-01	4.3174e+00
143	IHT000016	125.9653	128.5043	126.8861	5.6099e-01	4.2919e+00
144	IHT000017	149.7634	153.2790	151.3856	7.0894e-01	4.3706e+00
145	IHT000018	151.8667	154.4058	153.0984	5.4839e-01	4.3765e+00
146	IHT000019	153.1288	155.2772	154.1054	5.7498e-01	4.3801e+00
147	IHT000020	151.5137	153.8574	152.3467	5.8155e-01	4.3739e+00
148	IHT000021	-2.8320	0.0976	-1.5805	6.8698e-01	4.1000e+00
149	IHT000022	131.0472	133.5862	132.1194	5.5260e-01	4.3076e+00
150	IHT000023	149.5305	151.8743	150.3914	5.1662e-01	4.3671e+00
151	IHT000024	113.9987	116.1471	114.9234	4.9439e-01	4.2580e+00
152	IHT000025	146.8487	149.1925	147.9488	4.8778e-01	4.3588e+00
153	IHT000026	150.2066	152.5503	151.1751	5.0737e-01	4.3698e+00
154	IHT000027	127.8997	130.2434	129.0396	5.4860e-01	4.2983e+00
155	IHT000028	128.5081	131.4378	129.6202	6.8499e-01	4.3000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.9211	152.8508	151.2643	6.6787e-01	4.3701e+00
157	IHT000030	152.9935	156.3138	154.4843	7.3372e-01	4.3814e+00
158	IHT000031	149.9136	152.8433	151.3127	6.9780e-01	4.3703e+00
159	IHT000032	150.9540	154.0790	152.6362	6.7283e-01	4.3749e+00
160	IHT000033	150.9390	154.0640	152.5732	6.7740e-01	4.3747e+00
161	IHT000034	133.1167	135.2652	134.2647	5.5190e-01	4.3142e+00
162	IHT000035	175.4958	178.2302	176.6477	5.6557e-01	4.4644e+00
163	IHT000036	131.4378	133.7815	132.7054	5.7099e-01	4.3094e+00

Velocity 1 = 0.059198 (ft/sec)
 Velocity 2 = 0.000300 (ft/sec)
 Pressure Drop = 0.023200 (psi)
 Tsat in = 0.021973 (deg F) Tsat out = 0.030304 (deg F)
 Phi inner = 1.717499 (kBtu/hr-ft2) Phi outer = 0.029694 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0782	0.0968
1	TRF000002	0.0436	0.0537
2	TFM000001	0.2569	0.3016
3	TIN000001	0.2333	0.2734
4	TRV000001	0.2214	0.2585
5	TSR000001	0.3308	0.2407
6	EMPTY	0.0885	0.2303
7	TAO050136	0.9910	0.6551
8	TAO070136	1.1581	0.7627
9	TAO080136	0.3342	0.2203
10	TAO090136	0.7299	0.4251
11	TAO100136	0.3796	0.2406
12	TAO105136	0.3564	0.2250
13	EMPTY	8.4115	60.4170
14	TAO115136	0.8135	0.4742
15	EMPTY	0.2261	0.6248
16	TAO125136	0.1107	0.0638
17	EMPTY	0.0193	0.0426
18	EMPTY	0.0240	0.0575
19	TAO130048	0.1404	0.0846
20	TAO120224	0.6937	0.4161
21	EMPTY	0.0039	0.0099
22	TAO120312	0.1864	0.1053
23	TAO130312	0.2028	0.1193
24	EMPTY	0.0142	0.0361
25	TRT070000	0.7764	0.5264
26	TRT100000	0.3345	0.1983
27	TRT120000	0.0651	0.0383
28	TRT125000	0.0547	0.0312
29	EMPTY	0.0130	0.0325
30	EMPTY	0.0051	0.0128
31	TAF050136	0.3097	0.2923
32	TAF070136	0.3147	0.2805
33	TAF080136	0.3596	0.3133
34	TAF090136	0.3262	0.2779
35	TAF100136	0.4037	0.3338
36	TAF105136	0.3585	0.2902
37	TAF110136	0.3570	0.2831
38	TAF115136	0.3870	0.3006
39	TAF120136	0.2923	0.2236
40	TAF125136	0.3853	0.2903
41	TAF130136	0.4401	0.3277
42	TAF120048	0.2398	0.1774
43	TAF130048	0.2144	0.1553
44	TAF120224	0.1477	0.1129
45	TAF130224	0.3226	0.2423

#	Name	Abs Diff	%Diff
46	EMPTY	0.0052	0.0137
47	EMPTY	0.0173	0.0440
48	TAI130048	0.6478	0.7086
49	TAI130136	0.5008	0.2913
50	TAI130224	0.5811	0.3382
51	TAI130312	8.2695	2.9717
52	TRR130000	1.8167	1.3809
53	TSI000001	0.1118	0.2607
54	TSI000002	2.1800	2.1626
55	TSO000001	0.0007	0.0017
56	TSO000002	0.0576	0.1123
57	TAF020136	0.2966	0.3179
58	EMPTY	0.0474	0.1100
59	TAF130312	0.3209	0.2251
60	EMPTY	0.0057	0.3448
61	EMPTY	0.0066	0.3982
62	EMPTY	0.0068	0.4091
63	EMPTY	0.0072	0.4308
64	EMPTY	0.0035	0.3954
65	EMPTY	0.0037	0.4094
66	EMPTY	0.0024	0.2614
67	EMPTY	0.0044	0.4718
68	EMPTY	0.0029	0.3071
69	EMPTY	0.0009	0.0936
70	EMPTY	0.0043	0.4423
71	EMPTY	0.0008	0.0804
72	EMPTY	0.0029	0.2883
73	EMPTY	0.0038	0.3720
74	EMPTY	0.0034	0.3284
75	EMPTY	0.0039	0.3714
76	EMPTY	0.0005	0.0470
77	EMPTY	0.0039	0.3613
78	EMPTY	0.0045	0.4095
79	EMPTY	0.0020	0.1784
80	PAN020136	1.1439	2.8195
81	PAN050136	0.6977	1.1052
82	PAN070136	0.0508	0.0988
83	PAN080136	0.1223	0.5672
84	PAN090136	0.3010	1.5528
85	PAN100136	0.1666	0.8514
86	PAN105136	0.0668	0.3761
87	PAN110136	0.2764	2.0197
88	PAN115136	0.0973	0.9138
89	PAN120136	4.3818	257.9047
90	PAN125136	3.4427	32.0451
91	PAN130136	1.5846	11.6481
92	PAN120048	0.6498	3.4550
93	PAN130048	1.1581	6.0538
94	PAN120224	3.6091	28.4710
95	PAN130224	4.1111	14.9628
96	PAN120312	0.1376	0.7199
97	PAN130312	1.0784	5.7342
98	PAB000136	0.0147	0.0366
99	PAB100136	0.0228	0.0711
100	PAB125136	0.0157	0.0522

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1222	0.3071
102	PRV000001	0.2366	1.1800
103	PSR000001	0.0341	0.1203
104	PFM000001	0.3713	0.6018
105	PAN000136	0.6438	0.2259
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0004	4.3478
108	EMPTY	0.0000	0.0000
109	EMPTY	0.0001	2.0408
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	66.6667
112	VPW000001	0.1362	0.0941
113	VPW000002	0.1328	0.0787
114	VPW000003	0.0177	0.0085
115	VPW000004	0.0246	0.0165
116	VPW000005	0.4177	0.2106
117	VPW000006	0.1460	0.0704
118	IPW000001	16.6777	2.0999
119	IPW000002	18.8326	1.0391
120	IPW000003	17.4746	0.9466
121	IPW000004	4.8971	0.9041
122	IPW000005	1.5557	0.4342
123	IPW000006	1.3058	0.3496
124	EMPTY	0.0005	2.5907
125	EMPTY	0.0001	0.7299
126	EMPTY	0.0003	1.9737
127	EMPTY	0.0007	4.2945
128	IHT000001	0.0882	0.0474
129	IHT000002	0.0697	0.0376
130	IHT000003	0.0404	0.0219
131	IHT000004	0.0388	0.0207
132	IHT000005	0.0437	0.0236
133	IHT000006	0.0177	0.0098
134	IHT000007	0.0233	0.0124
135	IHT000008	0.0125	0.0067
136	IHT000009	0.0193	0.0104
137	IHT000010	0.0511	0.0275
138	IHT000011	0.0725	0.0387
139	IHT000012	0.0545	0.0293
140	IHT000013	0.0961	0.0726
141	IHT000014	0.4136	0.2261
142	IHT000015	0.1262	0.0932
143	IHT000016	0.0106	0.0084
144	IHT000017	0.4700	0.3114
145	IHT000018	0.2395	0.1567
146	IHT000019	0.2656	0.1726
147	IHT000020	0.2979	0.1959
148	IHT000021	0.1695	9.6857
149	IHT000022	0.2128	0.1613
150	IHT000023	0.2594	0.1728
151	IHT000024	0.2919	0.2546
152	IHT000025	0.2759	0.1868
153	IHT000026	0.2654	0.1759
154	IHT000027	0.1830	0.1420
155	IHT000028	0.2097	0.1620

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#	Name	Abs Diff	%Diff
156	IHT000029	0.3394	0.2249
157	IHT000030	0.3032	0.1966
158	IHT000031	0.2741	0.1815
159	IHT000032	0.2368	0.1554
160	IHT000033	0.2553	0.1676
161	IHT000034	0.0152	0.0113
162	IHT000035	0.2894	0.1636
163	IHT000036	0.0918	0.0691

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sum1

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Velocity 1 = 13.9303 (ft/sec) (+/- 3.5687 %)
Velocity 2 = 13.3294 (ft/sec) (+/- 3.4863 %)
Pressure drop = 2.4841 (psi)
Tsat in = 267.5469 (deg F) Tsat out = 263.9705 (deg F)
Phi inner = 199.9203 (kBtu/hr-ft2) (+/- 1.4542 %)
Phi outer = 201.4021 (kBtu/hr-ft2) (+/- 1.3487 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	80.7477	81.3824	81.0693	1.7225e-01	1.9001e+00
1	TRF000002	81.2404	81.6614	81.4930	1.3447e-01	1.9001e+00
2	TFM000001	85.5026	86.6560	86.0312	2.5157e-01	1.9002e+00
3	TIN000001	85.7799	86.6207	86.1750	1.5969e-01	1.9002e+00
4	TRV000001	85.9131	87.0666	86.6344	2.6739e-01	1.9002e+00
5	TSR000001	145.4495	150.2374	148.1676	1.4336e+00	1.9041e+00
6	EMPTY	37.9974	38.9168	38.4250	2.4575e-01	1.9010e+00
7	TAO050136	171.4496	172.6270	171.8503	2.6424e-01	1.9070e+00
8	TAO070136	173.1310	175.3020	174.3074	5.0613e-01	1.9073e+00
9	TAO080136	177.4467	178.9078	178.1514	3.4160e-01	1.9079e+00
10	TAO090136	186.2390	187.1145	186.6397	2.0197e-01	1.9091e+00
11	TAO100136	183.6339	185.1928	184.4330	3.9657e-01	1.9088e+00
12	TAO105136	184.8734	186.4319	185.4773	3.5801e-01	1.9090e+00
13	EMPTY	9.0467	14.4838	11.9002	1.5493e+00	1.9001e+00
14	TAO115136	197.1242	198.4815	197.7178	2.8826e-01	1.9110e+00
15	EMPTY	31.3055	43.0426	39.1268	3.3542e+00	1.9010e+00
16	TAO125136	201.8105	202.6750	202.1418	1.8333e-01	1.9117e+00
17	EMPTY	44.8706	45.7833	45.3316	1.9822e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6968	9.9673e-02	1.9012e+00
19	TAO130048	194.0617	195.2202	194.5135	2.1045e-01	1.9104e+00
20	TAO120224	192.0813	193.2445	192.5427	2.5807e-01	1.9101e+00
21	EMPTY	39.1464	39.6057	39.2567	1.4845e-01	1.9010e+00
22	TAO120312	205.7131	206.6748	206.0902	1.9896e-01	1.9124e+00
23	TAO130312	198.8423	199.6136	199.1706	1.8875e-01	1.9112e+00
24	EMPTY	39.1464	39.8352	39.4174	1.9510e-01	1.9010e+00
25	TRT070000	168.4773	170.0633	169.1910	2.9848e-01	1.9066e+00
26	TRT100000	196.9735	197.7465	197.3871	1.7454e-01	1.9109e+00
27	TRT120000	199.5522	200.3239	199.9610	1.8125e-01	1.9113e+00
28	TRT125000	205.1467	205.9133	205.4962	1.9511e-01	1.9123e+00
29	EMPTY	39.8352	40.2940	40.0601	8.6596e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7663	2.1872e-01	1.9011e+00
31	TAF050136	115.2753	116.2990	115.7836	2.8029e-01	1.9014e+00
32	TAF070136	124.1427	126.0664	124.8521	3.7837e-01	1.9020e+00
33	TAF080136	128.2734	129.6854	129.0680	3.4947e-01	1.9023e+00
34	TAF090136	131.8253	133.0400	132.4977	3.1856e-01	1.9026e+00
35	TAF100136	137.3810	138.3913	137.8782	2.6979e-01	1.9031e+00
36	TAF105136	140.7362	142.3350	141.6034	3.4596e-01	1.9035e+00
37	TAF110136	144.4407	145.9403	145.2247	3.7832e-01	1.9038e+00
38	TAF115136	148.2560	149.4529	148.8066	2.8685e-01	1.9042e+00
39	TAF120136	151.1156	152.0124	151.5939	1.9392e-01	1.9045e+00
40	TAF125136	153.8251	155.6080	154.6730	3.3611e-01	1.9048e+00
41	TAF130136	156.4407	157.2359	156.9097	1.8064e-01	1.9051e+00
42	TAF120048	156.0273	157.4291	156.8241	3.0182e-01	1.9051e+00
43	TAF130048	160.5886	161.4805	160.9772	1.9087e-01	1.9056e+00
44	TAF120224	150.2798	151.6765	150.9262	2.6753e-01	1.9044e+00
45	TAF130224	154.2677	155.1675	154.7438	2.4701e-01	1.9048e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.2043	2.8725e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5873	1.0203e-01	1.9011e+00
48	TAI130048	97.5779	103.3914	99.7313	1.5965e+00	1.9006e+00
49	TAI130136	202.5108	203.1838	202.8067	1.7137e-01	1.9118e+00
50	TAI130224	201.2802	202.0520	201.7085	1.7780e-01	1.9117e+00
51	TAI130312	193.1440	193.9198	193.4969	1.8670e-01	1.9102e+00
52	TRR130000	128.3515	131.9897	130.3208	9.2561e-01	1.9024e+00
53	TSI000001	42.5151	43.4932	42.9541	2.0592e-01	1.9005e+00
54	TSI000002	100.9816	103.8774	102.7158	7.3859e-01	1.9007e+00
55	TSO000001	40.7308	41.4976	41.1688	1.8091e-01	1.9006e+00
56	TSO000002	52.4495	53.4208	52.9114	2.3088e-01	1.9002e+00
57	TAF020136	97.3525	99.0250	98.2267	3.9125e-01	1.9005e+00
58	EMPTY	42.8139	43.5000	43.1570	2.3672e-01	1.9013e+00
59	TAF130312	166.6197	167.8025	167.1682	2.5126e-01	1.9064e+00
60	EMPTY	2.2412	2.2510	2.2458	2.0716e-03	0.0000e+00
61	EMPTY	2.2412	2.2461	2.2452	1.8950e-03	0.0000e+00
62	EMPTY	2.2412	2.2461	2.2457	1.3381e-03	0.0000e+00
63	EMPTY	2.2461	2.2559	2.2511	1.5566e-03	0.0000e+00
64	EMPTY	1.1377	1.1377	1.1377	0.0000e+00	0.0000e+00
65	EMPTY	1.1523	1.1572	1.1540	2.3365e-03	0.0000e+00
66	EMPTY	1.1670	1.1670	1.1670	0.0000e+00	0.0000e+00
67	EMPTY	1.1768	1.1816	1.1813	1.1714e-03	0.0000e+00
68	EMPTY	1.1865	1.1914	1.1909	1.4797e-03	0.0000e+00
69	EMPTY	1.2012	1.2061	1.2057	1.3381e-03	0.0000e+00
70	EMPTY	1.2158	1.2207	1.2159	6.9053e-04	0.0000e+00
71	EMPTY	1.2354	1.2354	1.2354	0.0000e+00	0.0000e+00
72	EMPTY	1.2451	1.2451	1.2451	0.0000e+00	0.0000e+00
73	EMPTY	1.2598	1.2646	1.2600	9.6655e-04	0.0000e+00
74	EMPTY	1.2695	1.2744	1.2721	2.4642e-03	0.0000e+00
75	EMPTY	1.2842	1.2891	1.2845	1.1714e-03	0.0000e+00
76	EMPTY	1.2939	1.2988	1.2955	2.3008e-03	0.0000e+00
77	EMPTY	1.3086	1.3135	1.3131	1.3381e-03	0.0000e+00
78	EMPTY	1.3281	1.3330	1.3315	2.2603e-03	0.0000e+00
79	EMPTY	1.3477	1.3525	1.3508	2.3675e-03	0.0000e+00
80	PAN020136	2.7539	23.2007	13.8318	5.1938e+00	8.7069e-01
81	PAN050136	8.9666	19.3425	12.9033	2.3789e+00	1.6803e+00
82	PAN070136	10.0932	17.5700	14.2054	1.8704e+00	8.7072e-01
83	PAN080136	-0.4503	7.8658	4.7591	1.7496e+00	8.7008e-01
84	PAN090136	-1.8763	7.5078	1.8239	1.7108e+00	8.7001e-01
85	PAN100136	-2.5587	9.4195	3.8760	3.1179e+00	8.7005e-01
86	PAN105136	-2.9953	10.8902	3.7354	3.1727e+00	8.7005e-01
87	PAN110136	-0.4671	14.8679	8.0549	3.9237e+00	8.7023e-01
88	PAN115136	-5.6406	8.2449	0.1837	3.3697e+00	8.7000e-01
89	PAN120136	-6.9390	7.4805	-2.5598	3.2622e+00	8.7002e-01
90	PAN125136	-6.0353	10.1390	0.3765	3.0075e+00	8.7000e-01
91	PAN130136	1.4534	12.2871	8.1962	2.1226e+00	8.7024e-01
92	PAN120048	-5.0221	12.5255	2.5920	3.9110e+00	8.7002e-01
93	PAN130048	-2.4795	11.0246	5.8198	3.4298e+00	8.7012e-01
94	PAN120224	-4.9414	11.6907	1.0981	3.7865e+00	8.7000e-01
95	PAN130224	1.7124	15.7505	10.0498	3.3615e+00	8.7036e-01
96	PAN120312	-2.8109	9.5487	2.4289	3.0414e+00	8.7002e-01
97	PAN130312	-4.4938	11.4516	5.8913	2.7189e+00	8.7012e-01
98	PAB000136	39.6949	40.5189	40.1198	2.5513e-01	5.8861e-01
99	PAB100136	37.9035	38.3155	38.0380	1.0682e-01	5.8774e-01
100	PAB125136	37.4272	37.9307	37.7769	9.0500e-02	5.8764e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9381	40.5251	40.0026	3.6500e-01	7.5664e-01
102	PRV000001	19.0689	19.1910	19.1861	2.4164e-02	7.5153e-01
103	PSR000001	36.8067	37.0508	36.9165	4.4460e-02	7.5566e-01
104	PFM000001	29.5345	30.5415	30.1497	2.3762e-01	5.0565e-01
105	PAN000136	54.7119	79.8889	68.7744	6.9003e+00	4.9230e+00
106	PFM000002	27.5882	27.5882	27.5882	7.7069e-06	2.1156e-01
107	EMPTY	0.0049	0.0098	0.0054	1.4797e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.6965	145.6731	145.0089	1.6269e-01	1.1887e+00
113	VPW000002	168.5397	169.1256	168.8716	1.2001e-01	1.2972e+00
114	VPW000003	208.7252	209.3112	208.8776	1.2658e-01	1.4922e+00
115	VPW000004	148.5427	149.1286	148.8512	1.5328e-01	1.2057e+00
116	VPW000005	197.3107	199.0685	197.9747	3.8257e-01	1.4377e+00
117	VPW000006	207.2115	207.9928	207.6100	1.4743e-01	1.4859e+00
118	IPW000001	771.9266	779.7360	774.9331	2.0193e+00	1.0153e+01
119	IPW000002	1831.9795	1847.5897	1837.7942	3.3564e+00	1.6625e+01
120	IPW000003	1855.5001	1861.3501	1858.0350	1.6362e+00	1.6765e+01
121	IPW000004	538.9123	541.3537	539.4395	5.5664e-01	4.7075e+00
122	IPW000005	356.8791	360.7849	358.5195	7.9988e-01	3.4673e+00
123	IPW000006	374.9530	376.4178	375.5586	3.8913e-01	3.5781e+00
124	EMPTY	-0.0293	-0.0146	-0.0206	3.5962e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.5515e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0175	3.4300e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.9508e-03	0.0000e+00
128	IHT000001	183.7665	187.2822	185.7119	6.8568e-01	4.5010e+00
129	IHT000002	182.9702	186.6812	184.9625	6.6263e-01	4.4979e+00
130	IHT000003	182.8275	186.3431	184.5737	6.4405e-01	4.4963e+00
131	IHT000004	185.1450	189.0512	186.9653	6.9636e-01	4.5062e+00
132	IHT000005	182.9252	186.6361	184.5932	6.8027e-01	4.4964e+00
133	IHT000006	178.2940	182.2003	180.0947	7.6136e-01	4.4781e+00
134	IHT000007	186.4370	189.7574	187.9605	6.7080e-01	4.5103e+00
135	IHT000008	184.8933	187.8230	186.4677	6.1815e-01	4.5041e+00
136	IHT000009	183.5975	186.9178	185.4062	6.5769e-01	4.4997e+00
137	IHT000010	184.3825	187.1169	185.6872	5.6557e-01	4.5009e+00
138	IHT000011	186.0840	188.2324	187.0918	5.1654e-01	4.5067e+00
139	IHT000012	184.6755	186.8239	185.6129	5.5664e-01	4.5006e+00
140	IHT000013	131.0697	133.6088	132.2299	5.9374e-01	4.3080e+00
141	IHT000014	181.1336	183.8679	182.1805	6.3351e-01	4.4865e+00
142	IHT000015	133.9619	136.3056	135.1924	5.7352e-01	4.3171e+00
143	IHT000016	125.3793	127.9184	126.7739	5.7183e-01	4.2915e+00
144	IHT000017	149.5681	152.4977	150.8180	7.0476e-01	4.3686e+00
145	IHT000018	151.4761	154.2105	152.8902	6.5976e-01	4.3758e+00
146	IHT000019	152.3475	155.2772	153.9062	6.8059e-01	4.3794e+00
147	IHT000020	150.3418	153.2715	151.8691	6.4801e-01	4.3722e+00
148	IHT000021	-3.6133	-0.0977	-1.7344	7.6706e-01	4.1000e+00
149	IHT000022	130.4612	133.1956	131.8831	6.2270e-01	4.3069e+00
150	IHT000023	148.5539	151.2883	149.9757	5.9587e-01	4.3657e+00
151	IHT000024	113.2174	115.9518	114.5924	5.7718e-01	4.2571e+00
152	IHT000025	146.2628	148.9971	147.6885	5.8427e-01	4.3579e+00
153	IHT000026	149.2300	151.9644	150.7573	5.4632e-01	4.3684e+00
154	IHT000027	127.5090	130.0481	128.8410	5.2599e-01	4.2977e+00
155	IHT000028	127.7269	130.6566	129.4222	6.1313e-01	4.2994e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.1399	152.0696	150.9523	6.6268e-01	4.3691e+00
157	IHT000030	152.4076	155.3373	154.2318	6.5389e-01	4.3805e+00
158	IHT000031	149.3277	152.4527	150.9800	6.1916e-01	4.3692e+00
159	IHT000032	150.5634	153.6884	152.2705	7.1224e-01	4.3736e+00
160	IHT000033	150.3531	153.6734	152.1851	7.0353e-01	4.3733e+00
161	IHT000034	132.7261	135.0699	134.1323	5.3815e-01	4.3138e+00
162	IHT000035	174.3239	177.6442	176.2926	6.5297e-01	4.4629e+00
163	IHT000036	131.4378	133.7815	132.6019	5.3373e-01	4.3091e+00

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Velocity 1 = 13.9235 (ft/sec) (+/- 3.5689 %)

Velocity 2 = 13.3292 (ft/sec) (+/- 3.4863 %)

Pressure drop = 2.4327 (psi)

Tsat in = 267.3526 (deg F) Tsat out = 263.7704 (deg F)

Phi inner = 200.7555 (kBtu/hr-ft2) (+/- 1.4536 %)

Phi outer = 200.8080 (kBtu/hr-ft2) (+/- 1.3494 %)

D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)

L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	80.7477	81.5939	81.1406	1.9789e-01	1.9001e+00
1	TRF000002	81.4509	81.8719	81.5970	1.1531e-01	1.9001e+00
2	TFM000001	85.2924	86.3423	85.8219	2.2360e-01	1.9002e+00
3	TIN000001	85.7794	86.4106	86.0693	1.5415e-01	1.9002e+00
4	TRV000001	85.8085	86.6481	86.2009	1.8878e-01	1.9002e+00
5	TSR000001	150.0373	153.4186	152.2802	8.3039e-01	1.9046e+00
6	EMPTY	37.9974	38.9168	38.4196	2.4082e-01	1.9010e+00
7	TAO050136	170.8618	171.8439	171.4892	2.4843e-01	1.9069e+00
8	TAO070136	172.8340	175.8922	173.9644	7.2396e-01	1.9073e+00
9	TAO080136	177.2533	178.7127	177.9973	3.3652e-01	1.9078e+00
10	TAO090136	188.2787	189.0558	188.7345	1.7865e-01	1.9095e+00
11	TAO100136	183.3411	185.0958	184.1353	4.0916e-01	1.9088e+00
12	TAO105136	184.2882	185.6531	184.9231	3.7376e-01	1.9089e+00
13	EMPTY	2.3853	6.9106	4.7833	1.3905e+00	1.9000e+00
14	TAO115136	197.2205	198.2880	197.5356	2.4369e-01	1.9109e+00
15	EMPTY	31.7686	42.8139	38.9588	3.0662e+00	1.9010e+00
16	TAO125136	201.7149	202.6761	202.0197	2.3381e-01	1.9117e+00
17	EMPTY	44.8706	45.5552	45.3224	1.7106e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6600	9.3033e-02	1.9012e+00
19	TAO130048	194.0612	194.8348	194.3835	1.6067e-01	1.9104e+00
20	TAO120224	191.8870	193.2448	192.5145	2.8417e-01	1.9101e+00
21	EMPTY	39.1464	39.6057	39.2402	1.3189e-01	1.9010e+00
22	TAO120312	205.4242	206.3864	205.9251	2.3562e-01	1.9124e+00
23	TAO130312	198.6504	199.5180	199.0360	2.0336e-01	1.9112e+00
24	EMPTY	39.1464	39.8352	39.3620	2.0647e-01	1.9010e+00
25	TRT070000	168.8728	169.8657	169.4178	2.3354e-01	1.9066e+00
26	TRT100000	196.9741	197.7465	197.3622	1.8220e-01	1.9109e+00
27	TRT120000	199.4557	200.1311	199.8258	1.6758e-01	1.9113e+00
28	TRT125000	204.8607	205.6278	205.3012	1.8638e-01	1.9123e+00
29	EMPTY	39.8352	40.2940	40.0647	1.0472e-01	1.9011e+00
30	EMPTY	39.3761	40.2940	39.8305	2.0143e-01	1.9011e+00
31	TAF050136	114.9689	116.2985	115.6275	2.6489e-01	1.9014e+00
32	TAF070136	123.9415	125.4612	124.6646	3.3421e-01	1.9020e+00
33	TAF080136	128.0717	129.6859	128.9245	4.0952e-01	1.9023e+00
34	TAF090136	131.6233	132.6360	132.2308	2.5056e-01	1.9026e+00
35	TAF100136	137.1788	138.2904	137.7006	2.9912e-01	1.9031e+00
36	TAF105136	140.5389	142.1358	141.3270	3.0699e-01	1.9034e+00
37	TAF110136	144.3417	145.7398	145.0558	3.3323e-01	1.9038e+00
38	TAF115136	148.1556	149.2545	148.6816	2.9392e-01	1.9042e+00
39	TAF120136	150.6195	151.8139	151.3489	2.3728e-01	1.9045e+00
40	TAF125136	153.5288	155.2127	154.4063	3.7659e-01	1.9048e+00
41	TAF130136	156.2423	157.2359	156.7434	2.1161e-01	1.9051e+00
42	TAF120048	155.9267	157.5276	156.6641	2.5160e-01	1.9051e+00
43	TAF130048	160.3905	161.3822	160.8275	1.9515e-01	1.9055e+00
44	TAF120224	150.1806	151.3775	150.8643	2.7086e-01	1.9044e+00
45	TAF130224	154.0665	155.1675	154.5876	2.4501e-01	1.9048e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.9168	38.2789	2.8257e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.6900	1.1180e-01	1.9011e+00
48	TAI130048	97.5779	100.9035	99.0912	7.1937e-01	1.9006e+00
49	TAI130136	202.4142	202.9920	202.7582	1.4563e-01	1.9118e+00
50	TAI130224	201.4726	202.1487	201.7821	1.5765e-01	1.9117e+00
51	TAI130312	200.8848	201.6569	201.3595	1.6111e-01	1.9116e+00
52	TRR130000	129.0591	131.2847	130.3471	5.1623e-01	1.9025e+00
53	TSI000001	42.5145	43.4940	43.0231	2.0393e-01	1.9005e+00
54	TSI000002	101.7061	103.5691	102.4961	4.4586e-01	1.9007e+00
55	TSO000001	40.8406	41.6069	41.3383	1.8967e-01	1.9006e+00
56	TSO000002	52.5574	53.5290	53.0376	2.2702e-01	1.9002e+00
57	TAF020136	97.2469	98.8158	97.9556	3.8225e-01	1.9005e+00
58	EMPTY	42.8139	43.7285	43.1966	2.8158e-01	1.9013e+00
59	TAF130312	166.6197	167.6062	167.1454	2.1336e-01	1.9063e+00
60	EMPTY	2.2363	2.2461	2.2423	2.2871e-03	0.0000e+00
61	EMPTY	2.2412	2.2461	2.2417	1.4934e-03	0.0000e+00
62	EMPTY	2.2412	2.2461	2.2425	2.1781e-03	0.0000e+00
63	EMPTY	2.2461	2.2510	2.2484	2.4621e-03	0.0000e+00
64	EMPTY	1.1328	1.1377	1.1371	1.6172e-03	0.0000e+00
65	EMPTY	1.1523	1.1572	1.1527	1.3508e-03	0.0000e+00
66	EMPTY	1.1621	1.1719	1.1666	1.6787e-03	0.0000e+00
67	EMPTY	1.1768	1.1816	1.1800	2.3135e-03	0.0000e+00
68	EMPTY	1.1865	1.1914	1.1897	2.3483e-03	0.0000e+00
69	EMPTY	1.2012	1.2061	1.2040	2.4414e-03	0.0000e+00
70	EMPTY	1.2158	1.2158	1.2158	0.0000e+00	0.0000e+00
71	EMPTY	1.2354	1.2354	1.2354	0.0000e+00	0.0000e+00
72	EMPTY	1.2451	1.2451	1.2451	0.0000e+00	0.0000e+00
73	EMPTY	1.2598	1.2598	1.2598	0.0000e+00	0.0000e+00
74	EMPTY	1.2695	1.2744	1.2705	1.9883e-03	0.0000e+00
75	EMPTY	1.2793	1.2891	1.2845	1.5467e-03	0.0000e+00
76	EMPTY	1.2939	1.2988	1.2948	1.9103e-03	0.0000e+00
77	EMPTY	1.3086	1.3184	1.3134	1.2165e-03	0.0000e+00
78	EMPTY	1.3281	1.3330	1.3302	2.4414e-03	0.0000e+00
79	EMPTY	1.3477	1.3525	1.3496	2.4247e-03	0.0000e+00
80	PAN020136	4.7376	24.2688	12.8948	5.1376e+00	8.7060e-01
81	PAN050136	8.3562	18.2744	12.3733	2.1188e+00	1.6803e+00
82	PAN070136	8.1096	18.1041	13.7678	2.4665e+00	8.7068e-01
83	PAN080136	1.0756	11.1464	5.7233	2.5500e+00	8.7012e-01
84	PAN090136	-1.7238	7.2789	2.0006	1.9201e+00	8.7001e-01
85	PAN100136	-1.7957	8.0462	3.1634	2.6600e+00	8.7004e-01
86	PAN105136	-1.8509	11.5006	4.3196	3.6136e+00	8.7007e-01
87	PAN110136	-1.1538	14.5628	6.0116	3.6691e+00	8.7013e-01
88	PAN115136	-5.4880	8.6264	0.4878	4.0866e+00	8.7000e-01
89	PAN120136	-7.0153	7.4042	-0.8495	3.2010e+00	8.7000e-01
90	PAN125136	-6.1116	8.0791	0.4264	4.2637e+00	8.7000e-01
91	PAN130136	0.0801	13.0500	6.9029	3.3958e+00	8.7017e-01
92	PAN120048	-4.4118	9.3974	1.3959	3.1892e+00	8.7001e-01
93	PAN130048	-0.6484	13.2371	7.5041	3.2385e+00	8.7020e-01
94	PAN120224	-4.8651	7.9523	0.6639	3.3152e+00	8.7000e-01
95	PAN130224	1.3310	15.0639	10.0004	3.0744e+00	8.7036e-01
96	PAN120312	-3.4213	11.9901	1.4709	3.1071e+00	8.7001e-01
97	PAN130312	-4.7227	11.7568	6.0098	2.7966e+00	8.7013e-01
98	PAB000136	39.6034	40.5647	39.9892	2.4438e-01	5.8855e-01
99	PAB100136	37.8119	38.2239	37.9716	1.1218e-01	5.8772e-01
100	PAB125136	37.3814	37.8392	37.6495	1.1782e-01	5.8759e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.0602	40.5251	39.8898	3.4883e-01	7.5660e-01
102	PRV000001	19.3131	19.3131	19.3131	3.8542e-06	7.5155e-01
103	PSR000001	36.8067	36.9288	36.8166	3.3770e-02	7.5563e-01
104	PFM000001	29.7176	30.5415	30.1211	2.3927e-01	5.0564e-01
105	PAN000136	54.2542	81.7200	67.3518	7.5339e+00	4.9229e+00
106	PFM000002	27.5882	27.5882	27.5882	5.7813e-06	2.1156e-01
107	EMPTY	0.0049	0.0098	0.0057	1.8234e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.5012	145.0872	144.8280	1.4587e-01	1.1879e+00
113	VPW000002	168.7350	169.1256	168.9262	8.4477e-02	1.2975e+00
114	VPW000003	208.7252	208.9205	208.8129	9.8153e-02	1.4919e+00
115	VPW000004	148.7380	149.1286	148.9014	1.2189e-01	1.2059e+00
116	VPW000005	197.8966	198.8732	198.3669	2.3894e-01	1.4397e+00
117	VPW000006	207.2115	207.7975	207.5304	1.4753e-01	1.4855e+00
118	IPW000001	769.9742	773.8789	772.0858	1.3119e+00	1.0140e+01
119	IPW000002	1830.0282	1835.8821	1832.6563	1.6204e+00	1.6590e+01
120	IPW000003	1865.2501	1871.1001	1868.2347	1.2009e+00	1.6836e+01
121	IPW000004	536.4709	537.9357	537.2380	4.2286e-01	4.6918e+00
122	IPW000005	355.9026	358.8320	357.4470	6.3303e-01	3.4604e+00
123	IPW000006	374.9530	375.9296	375.4015	3.2811e-01	3.5770e+00
124	EMPTY	-0.0244	-0.0098	-0.0193	3.4468e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0127	2.8047e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0148	2.9833e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0156	3.1486e-03	0.0000e+00
128	IHT000001	184.7431	186.8915	185.7476	5.0587e-01	4.5011e+00
129	IHT000002	184.3374	186.0952	185.0151	4.6511e-01	4.4981e+00
130	IHT000003	183.8041	185.5619	184.6252	4.3487e-01	4.4965e+00
131	IHT000004	186.1215	188.4653	187.0303	4.9723e-01	4.5064e+00
132	IHT000005	183.7064	186.0502	184.6472	5.0061e-01	4.4966e+00
133	IHT000006	179.2706	181.2237	180.1434	5.4679e-01	4.4783e+00
134	IHT000007	187.2183	189.1714	188.0434	5.5710e-01	4.5107e+00
135	IHT000008	185.4793	187.6277	186.5118	5.7912e-01	4.5043e+00
136	IHT000009	184.1834	186.9178	185.3673	6.3590e-01	4.4996e+00
137	IHT000010	184.3825	186.9216	185.7855	6.2362e-01	4.5013e+00
138	IHT000011	185.6933	188.0371	187.1124	5.6067e-01	4.5068e+00
139	IHT000012	184.0896	186.8239	185.5842	5.4889e-01	4.5005e+00
140	IHT000013	131.4603	133.4135	132.3214	5.0574e-01	4.3082e+00
141	IHT000014	181.3289	183.8679	182.6085	5.4673e-01	4.4883e+00
142	IHT000015	134.3525	136.3056	135.2733	5.0429e-01	4.3174e+00
143	IHT000016	125.7700	128.1137	126.6788	5.0516e-01	4.2912e+00
144	IHT000017	150.3493	153.2790	151.6766	6.4529e-01	4.3716e+00
145	IHT000018	151.8667	154.7964	153.1821	6.0957e-01	4.3768e+00
146	IHT000019	153.1288	155.4725	154.0217	6.7068e-01	4.3798e+00
147	IHT000020	151.1230	153.4668	152.0358	6.7114e-01	4.3728e+00
148	IHT000021	-3.0274	0.2930	-1.5805	8.2182e-01	4.1000e+00
149	IHT000022	130.6565	133.5862	131.8444	6.8804e-01	4.3068e+00
150	IHT000023	148.9446	151.4836	150.1403	6.2738e-01	4.3663e+00
151	IHT000024	113.6080	116.1471	114.7480	6.5915e-01	4.2575e+00
152	IHT000025	146.4581	149.1925	147.8770	6.1991e-01	4.3585e+00
153	IHT000026	149.4253	152.1597	150.9599	5.9402e-01	4.3691e+00
154	IHT000027	127.3137	130.4387	128.8562	6.3570e-01	4.2977e+00
155	IHT000028	127.9222	130.6566	129.2775	6.7471e-01	4.2990e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.9211	152.8508	151.0610	7.0910e-01	4.3694e+00
157	IHT000030	153.3841	156.3138	154.3926	7.3226e-01	4.3811e+00
158	IHT000031	149.9136	153.0386	151.1014	7.0853e-01	4.3696e+00
159	IHT000032	151.1494	153.8837	152.4329	7.1429e-01	4.3742e+00
160	IHT000033	151.1343	153.8687	152.3699	7.2357e-01	4.3740e+00
161	IHT000034	133.3120	135.2652	134.2368	5.2707e-01	4.3142e+00
162	IHT000035	175.6911	177.8396	176.7115	6.3697e-01	4.4646e+00
163	IHT000036	131.8284	133.5862	132.6934	5.2134e-01	4.3094e+00

Velocity 1 = 0.006800 (ft/sec)

Velocity 2 = 0.000200 (ft/sec)

Pressure Drop = 0.051400 (psi)

Tsat in = 0.194305 (deg F) Tsat out = 0.200104 (deg F)

Phi inner = 0.835190 (kBtu/hr-ft2) Phi outer = 0.594101 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0713	0.0880
1	TRF000002	0.1040	0.1276
2	TFM000001	0.2093	0.2433
3	TIN000001	0.1057	0.1227
4	TRV000001	0.4335	0.5004
5	TSR000001	4.1126	2.7756
6	EMPTY	0.0054	0.0140
7	TAO050136	0.3611	0.2101
8	TAO070136	0.3430	0.1968
9	TAO080136	0.1541	0.0865
10	TAO090136	2.0948	1.1224
11	TAO100136	0.2977	0.1614
12	TAO105136	0.5542	0.2988
13	EMPTY	7.1169	59.8049
14	TAO115136	0.1822	0.0922
15	EMPTY	0.1680	0.4294
16	TAO125136	0.1221	0.0604
17	EMPTY	0.0092	0.0203
18	EMPTY	0.0368	0.0883
19	TAO130048	0.1300	0.0668
20	TAO120224	0.0282	0.0146
21	EMPTY	0.0165	0.0420
22	TAO120312	0.1651	0.0801
23	TAO130312	0.1346	0.0676
24	EMPTY	0.0554	0.1405
25	TRT070000	0.2268	0.1341
26	TRT100000	0.0249	0.0126
27	TRT120000	0.1352	0.0676
28	TRT125000	0.1950	0.0949
29	EMPTY	0.0046	0.0115
30	EMPTY	0.0642	0.1614
31	TAF050136	0.1561	0.1348
32	TAF070136	0.1875	0.1502
33	TAF080136	0.1435	0.1112
34	TAF090136	0.2669	0.2014
35	TAF100136	0.1776	0.1288
36	TAF105136	0.2764	0.1952
37	TAF110136	0.1689	0.1163
38	TAF115136	0.1250	0.0840
39	TAF120136	0.2450	0.1616
40	TAF125136	0.2667	0.1724
41	TAF130136	0.1663	0.1060
42	TAF120048	0.1600	0.1020
43	TAF130048	0.1497	0.0930
44	TAF120224	0.0619	0.0410
45	TAF130224	0.1562	0.1009

#	Name	Abs Diff	%Diff
46	EMPTY	0.0746	0.1953
47	EMPTY	0.1027	0.2594
48	TAI130048	0.6401	0.6418
49	TAI130136	0.0485	0.0239
50	TAI130224	0.0736	0.0365
51	TAI130312	7.8626	4.0634
52	TRR130000	0.0263	0.0202
53	TSI000001	0.0690	0.1606
54	TSI000002	0.2197	0.2139
55	TSO000001	0.1695	0.4117
56	TSO000002	0.1262	0.2385
57	TAF020136	0.2711	0.2760
58	EMPTY	0.0396	0.0918
59	TAF130312	0.0228	0.0136
60	EMPTY	0.0035	0.1558
61	EMPTY	0.0035	0.1559
62	EMPTY	0.0032	0.1425
63	EMPTY	0.0027	0.1199
64	EMPTY	0.0006	0.0527
65	EMPTY	0.0013	0.1127
66	EMPTY	0.0004	0.0343
67	EMPTY	0.0013	0.1101
68	EMPTY	0.0012	0.1008
69	EMPTY	0.0017	0.1410
70	EMPTY	0.0001	0.0082
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0002	0.0159
74	EMPTY	0.0016	0.1258
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0007	0.0540
77	EMPTY	0.0003	0.0229
78	EMPTY	0.0013	0.0976
79	EMPTY	0.0012	0.0888
80	PAN020136	0.9370	6.7742
81	PAN050136	0.5300	4.1075
82	PAN070136	0.4376	3.0805
83	PAN080136	0.9642	20.2601
84	PAN090136	0.1767	9.6880
85	PAN100136	0.7126	18.3849
86	PAN105136	0.5842	15.6396
87	PAN110136	2.0433	25.3672
88	PAN115136	0.3041	165.5417
89	PAN120136	1.7103	66.8138
90	PAN125136	0.0499	13.2536
91	PAN130136	1.2933	15.7793
92	PAN120048	1.1961	16.1458
93	PAN130048	1.6843	28.9409
94	PAN120224	0.4342	39.5410
95	PAN130224	0.0494	0.4916
96	PAN120312	0.9580	39.4417
97	PAN130312	0.1185	2.0114
98	PAB000136	0.1306	0.3255
99	PAB100136	0.0664	0.1746
100	PAB125136	0.1274	0.3372

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1128	0.2820
102	PRV000001	0.1270	0.6619
103	PSR000001	0.0999	0.2706
104	PFM000001	0.0286	0.0949
105	PAN000136	1.4226	2.0685
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0003	5.5556
108	EMPTY	0.0000	0.0000
109	EMPTY	0.0002	4.2553
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.1809	0.1247
113	VPW000002	0.0546	0.0323
114	VPW000003	0.0647	0.0310
115	VPW000004	0.0502	0.0337
116	VPW000005	0.3922	0.1981
117	VPW000006	0.0796	0.0383
118	IPW000001	2.8473	0.3674
119	IPW000002	5.1379	0.2796
120	IPW000003	10.1997	0.5490
121	IPW000004	2.2015	0.4081
122	IPW000005	1.0725	0.2991
123	IPW000006	0.1571	0.0418
124	EMPTY	0.0013	6.3107
125	EMPTY	0.0011	7.9710
126	EMPTY	0.0027	15.4286
127	EMPTY	0.0004	2.5000
128	IHT000001	0.0357	0.0192
129	IHT000002	0.0526	0.0284
130	IHT000003	0.0515	0.0279
131	IHT000004	0.0650	0.0348
132	IHT000005	0.0540	0.0293
133	IHT000006	0.0487	0.0270
134	IHT000007	0.0829	0.0441
135	IHT000008	0.0441	0.0236
136	IHT000009	0.0389	0.0210
137	IHT000010	0.0983	0.0529
138	IHT000011	0.0206	0.0110
139	IHT000012	0.0287	0.0155
140	IHT000013	0.0915	0.0692
141	IHT000014	0.4280	0.2349
142	IHT000015	0.0809	0.0598
143	IHT000016	0.0951	0.0750
144	IHT000017	0.8586	0.5693
145	IHT000018	0.2919	0.1909
146	IHT000019	0.1155	0.0750
147	IHT000020	0.1667	0.1098
148	IHT000021	0.1539	8.8734
149	IHT000022	0.0387	0.0293
150	IHT000023	0.1646	0.1098
151	IHT000024	0.1556	0.1358
152	IHT000025	0.1885	0.1276
153	IHT000026	0.2026	0.1344
154	IHT000027	0.0152	0.0118
155	IHT000028	0.1447	0.1118

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1087	0.0720
157	IHT000030	0.1608	0.1043
158	IHT000031	0.1214	0.0804
159	IHT000032	0.1624	0.1067
160	IHT000033	0.1848	0.1214
161	IHT000034	0.1045	0.0779
162	IHT000035	0.4189	0.2376
163	IHT000036	0.0915	0.0690

Velocity 1 = 9.9754 (ft/sec) (+/- 3.8328 %)
 Velocity 2 = 9.9934 (ft/sec) (+/- 3.5197 %)
 Pressure drop = -1.3849 (psi)
 Tsat in = 267.5183 (deg F) Tsat out = 269.3369 (deg F)
 Phi inner = 198.4558 (kBtu/hr-ft2) (+/- 1.4553 %)
 Phi outer = 199.8451 (kBtu/hr-ft2) (+/- 1.3499 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	81.3824	82.0168	81.6870	1.8205e-01	1.9001e+00
1	TRF0000002	81.8719	82.2926	82.1286	1.4281e-01	1.9001e+00
2	TFM0000001	85.5045	86.6579	86.0310	2.1767e-01	1.9002e+00
3	TIN0000001	85.8846	86.5153	86.1643	1.6259e-01	1.9002e+00
4	TRV0000001	86.9622	88.0096	87.4507	2.3048e-01	1.9002e+00
5	TSR0000001	177.6312	178.9012	178.2195	3.4687e-01	1.9079e+00
6	EMPTY	37.9974	38.9168	38.4756	2.2670e-01	1.9010e+00
7	TAO050136	194.5728	195.6343	195.0384	2.5466e-01	1.9105e+00
8	TAO070136	198.0916	203.5158	199.6253	1.2052e+00	1.9113e+00
9	TAO080136	203.7937	206.2811	205.0133	5.2485e-01	1.9122e+00
10	TAO090136	213.3952	214.3501	213.8629	2.2094e-01	1.9139e+00
11	TAO100136	214.3983	216.0203	214.9538	2.7587e-01	1.9141e+00
12	TAO105136	215.5328	216.9645	216.2870	2.9062e-01	1.9144e+00
13	EMPTY	-4.0825	3.1013	0.5136	2.3868e+00	1.9000e+00
14	TAO115136	229.3781	230.4222	229.9649	2.4471e-01	1.9172e+00
15	EMPTY	31.5371	43.0426	38.4526	4.2074e+00	1.9010e+00
16	TAO125136	237.2583	238.0088	237.6054	1.6454e-01	1.9188e+00
17	EMPTY	44.8706	45.5552	45.2768	1.9715e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6968	1.3602e-01	1.9012e+00
19	TAO130048	228.9430	229.8858	229.3628	2.2072e-01	1.9170e+00
20	TAO120224	224.9751	226.1138	225.4894	2.5071e-01	1.9162e+00
21	EMPTY	39.1464	39.6057	39.2659	1.4101e-01	1.9010e+00
22	TAO120312	241.9342	242.9678	242.5409	2.4468e-01	1.9200e+00
23	TAO130312	234.5203	235.4622	234.9969	2.2776e-01	1.9183e+00
24	EMPTY	39.1464	39.8352	39.4909	2.0351e-01	1.9011e+00
25	TRT070000	191.0418	194.0689	192.5131	6.7366e-01	1.9101e+00
26	TRT100000	231.6806	232.7188	232.2789	2.2763e-01	1.9177e+00
27	TRT120000	236.5064	237.1656	236.8358	1.6281e-01	1.9187e+00
28	TRT125000	243.3461	244.0945	243.6363	1.7830e-01	1.9202e+00
29	EMPTY	40.0646	40.2940	40.1427	1.0978e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7847	2.1891e-01	1.9011e+00
31	TAF050136	126.5750	128.7023	127.7119	4.4657e-01	1.9022e+00
32	TAF070136	139.7542	141.9574	140.7097	5.0045e-01	1.9034e+00
33	TAF080136	145.6987	148.0856	146.4865	5.7298e-01	1.9039e+00
34	TAF090136	151.0180	152.7136	151.7581	3.2432e-01	1.9045e+00
35	TAF100136	158.6284	160.6161	159.6882	3.7271e-01	1.9054e+00
36	TAF105136	163.9714	165.8330	164.5933	3.9070e-01	1.9060e+00
37	TAF110136	169.7717	171.7331	170.6877	4.3155e-01	1.9068e+00
38	TAF115136	173.5761	175.0453	174.3810	3.4415e-01	1.9073e+00
39	TAF120136	177.5714	179.1307	178.3419	3.5830e-01	1.9079e+00
40	TAF125136	181.2597	183.1984	182.3045	4.8075e-01	1.9085e+00
41	TAF130136	185.3031	186.3723	185.7407	2.6135e-01	1.9090e+00
42	TAF120048	184.0869	185.9508	184.8662	4.3654e-01	1.9089e+00
43	TAF130048	190.4886	191.8466	191.0686	3.1321e-01	1.9098e+00
44	TAF120224	176.0683	178.2217	177.0651	4.2144e-01	1.9077e+00
45	TAF130224	182.0211	183.6890	182.8163	3.6486e-01	1.9086e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.9168	38.2917	2.8642e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8765	1.1059e-01	1.9011e+00
48	TAI130048	92.9929	94.8715	93.9510	3.7878e-01	1.9004e+00
49	TAI130136	241.2597	241.9160	241.5731	1.4989e-01	1.9197e+00
50	TAI130224	142.9232	143.8289	143.3481	2.3203e-01	1.9036e+00
51	TAI130312	219.1104	220.1585	219.6382	2.1799e-01	1.9150e+00
52	TRR130000	140.2405	142.2462	141.3342	3.4570e-01	1.9034e+00
53	TSI000001	43.3851	44.2547	43.7527	1.8358e-01	1.9005e+00
54	TSI000002	102.4327	104.1902	103.2946	4.0843e-01	1.9007e+00
55	TSO000001	41.4940	42.3696	41.8515	2.3970e-01	1.9005e+00
56	TSO000002	55.5770	56.3311	55.8936	2.0581e-01	1.9001e+00
57	TAF020136	102.1570	104.4506	103.4606	5.3729e-01	1.9008e+00
58	EMPTY	42.8139	43.5000	43.1478	2.6626e-01	1.9013e+00
59	TAF130312	198.3789	200.4019	199.3447	5.1092e-01	1.9112e+00
60	EMPTY	3.0176	3.0469	3.0309	6.6204e-03	0.0000e+00
61	EMPTY	3.0127	3.0322	3.0238	4.7351e-03	0.0000e+00
62	EMPTY	3.0127	3.0225	3.0184	3.6057e-03	0.0000e+00
63	EMPTY	3.0127	3.0225	3.0199	2.8317e-03	0.0000e+00
64	EMPTY	1.4746	1.4795	1.4781	2.2146e-03	0.0000e+00
65	EMPTY	1.4893	1.4941	1.4928	2.2146e-03	0.0000e+00
66	EMPTY	1.4990	1.5039	1.5030	1.8950e-03	0.0000e+00
67	EMPTY	1.5137	1.5186	1.5144	1.7115e-03	0.0000e+00
68	EMPTY	1.5234	1.5283	1.5235	6.9053e-04	0.0000e+00
69	EMPTY	1.5332	1.5381	1.5354	2.4484e-03	0.0000e+00
70	EMPTY	1.5430	1.5527	1.5458	2.6267e-03	0.0000e+00
71	EMPTY	1.5625	1.5674	1.5626	6.9053e-04	0.0000e+00
72	EMPTY	1.5674	1.5723	1.5716	1.7115e-03	0.0000e+00
73	EMPTY	1.5820	1.5918	1.5845	2.6562e-03	0.0000e+00
74	EMPTY	1.5918	1.5967	1.5949	2.3675e-03	0.0000e+00
75	EMPTY	1.6064	1.6064	1.6064	0.0000e+00	0.0000e+00
76	EMPTY	1.6113	1.6162	1.6161	6.9053e-04	0.0000e+00
77	EMPTY	1.6260	1.6309	1.6300	1.8950e-03	0.0000e+00
78	EMPTY	1.6455	1.6455	1.6455	0.0000e+00	0.0000e+00
79	EMPTY	1.6650	1.6699	1.6651	6.9053e-04	0.0000e+00
80	PAN020136	-13.1152	10.0781	-0.6091	6.1958e+00	8.7000e-01
81	PAN050136	-16.8208	-2.3250	-10.7509	3.6943e+00	1.6802e+00
82	PAN070136	-15.0075	1.3194	-8.1090	4.3528e+00	8.7024e-01
83	PAN080136	-12.5047	9.0102	-2.3942	5.7391e+00	8.7002e-01
84	PAN090136	-13.3204	5.3716	-5.5858	4.9684e+00	8.7011e-01
85	PAN100136	-11.8665	3.3923	-5.0520	3.1928e+00	8.7009e-01
86	PAN105136	-6.2759	9.2118	0.7187	4.5065e+00	8.7000e-01
87	PAN110136	-6.6469	12.4265	1.9819	4.3493e+00	8.7001e-01
88	PAN115136	-7.5479	6.1850	-2.3828	3.2454e+00	8.7002e-01
89	PAN120136	-6.9390	4.1999	-3.2906	2.6745e+00	8.7004e-01
90	PAN125136	-6.0353	3.2726	-2.1153	2.8030e+00	8.7002e-01
91	PAN130136	-3.2769	8.6250	1.0215	2.8488e+00	8.7000e-01
92	PAN120048	-12.4989	4.8198	-4.7429	3.8226e+00	8.7008e-01
93	PAN130048	-5.9127	5.7603	-0.5797	2.9712e+00	8.7000e-01
94	PAN120224	-12.7996	1.3147	-6.9555	3.5736e+00	8.7017e-01
95	PAN130224	-9.8080	8.2737	-0.5032	3.4450e+00	8.7000e-01
96	PAN120312	-9.2959	0.0120	-4.2895	2.6556e+00	8.7007e-01
97	PAN130312	-6.1723	3.8222	-3.4684	1.7565e+00	8.7004e-01
98	PAB000136	39.6034	40.4731	40.1005	2.5429e-01	5.8860e-01
99	PAB100136	40.6500	41.2451	41.0501	1.5442e-01	5.8901e-01
100	PAB125136	40.9977	41.5928	41.3401	1.0715e-01	5.8914e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.0602	40.4030	39.9122	3.7845e-01	7.5661e-01
102	PRV000001	19.3131	19.4351	19.4254	3.3453e-02	7.5157e-01
103	PSR000001	40.8350	40.9571	40.9253	5.4088e-02	7.5695e-01
104	PFM000001	15.1607	15.6185	15.3786	1.0280e-01	5.0148e-01
105	PAN000136	-54.2358	-16.6992	-38.3423	8.5485e+00	4.9209e+00
106	PFM000002	15.2886	15.5739	15.4346	6.4789e-02	2.0369e-01
107	EMPTY	0.0000	0.0049	0.0046	1.1714e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0011	2.0432e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.8918	145.2825	145.0831	1.1497e-01	1.1891e+00
113	VPW000002	168.7350	169.3209	169.0123	1.2534e-01	1.2979e+00
114	VPW000003	208.9205	209.5065	209.1198	1.4493e-01	1.4935e+00
115	VPW000004	148.7380	149.3239	149.1246	1.2780e-01	1.2069e+00
116	VPW000005	196.9201	199.0685	198.1309	4.6689e-01	1.4385e+00
117	VPW000006	207.6022	208.1881	207.8405	1.2027e-01	1.4870e+00
118	IPW000001	785.5930	791.4500	789.1074	1.4221e+00	1.0221e+01
119	IPW000002	1794.9054	1800.7592	1798.3394	1.3971e+00	1.6354e+01
120	IPW000003	1839.9001	1845.7501	1842.1233	1.3072e+00	1.6655e+01
121	IPW000004	539.4006	540.8654	539.9669	3.6057e-01	4.7113e+00
122	IPW000005	353.9497	357.8556	356.3810	9.2788e-01	3.4535e+00
123	IPW000006	371.5350	373.4882	372.5605	4.2142e-01	3.5585e+00
124	EMPTY	-0.0244	-0.0146	-0.0205	3.2718e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0150	3.0945e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0177	2.7709e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	3.1567e-03	0.0000e+00
128	IHT000001	184.1572	187.4775	185.5048	6.8714e-01	4.5001e+00
129	IHT000002	183.5562	186.8765	184.7828	6.3016e-01	4.4972e+00
130	IHT000003	183.4135	186.5385	184.4760	6.7446e-01	4.4959e+00
131	IHT000004	185.7309	188.6606	186.7778	6.5168e-01	4.5054e+00
132	IHT000005	183.3158	185.6595	184.3666	6.2998e-01	4.4955e+00
133	IHT000006	178.6846	181.4190	179.8330	6.0700e-01	4.4771e+00
134	IHT000007	186.4370	188.7808	187.6715	6.0418e-01	4.5091e+00
135	IHT000008	184.8933	187.2371	186.0848	5.5419e-01	4.5025e+00
136	IHT000009	183.9881	186.3319	185.0624	6.0005e-01	4.4983e+00
137	IHT000010	184.5778	187.5075	185.5856	6.0536e-01	4.5005e+00
138	IHT000011	185.8887	188.8183	186.8457	5.8160e-01	4.5057e+00
139	IHT000012	184.4802	187.2146	185.2731	5.6828e-01	4.4992e+00
140	IHT000013	131.0697	133.8041	132.0776	5.5152e-01	4.3075e+00
141	IHT000014	180.5476	183.6726	181.9110	6.7137e-01	4.4854e+00
142	IHT000015	133.9619	136.6962	135.0244	5.0864e-01	4.3166e+00
143	IHT000016	125.7700	127.7231	126.5786	5.0225e-01	4.2909e+00
144	IHT000017	149.5681	152.3024	150.6617	6.5435e-01	4.3681e+00
145	IHT000018	151.8667	154.2105	152.8198	5.7540e-01	4.3755e+00
146	IHT000019	152.7381	155.2772	154.0741	6.4157e-01	4.3799e+00
147	IHT000020	150.5371	153.2715	151.7558	6.3938e-01	4.3718e+00
148	IHT000021	-3.2227	-0.0977	-1.7070	7.4301e-01	4.1000e+00
149	IHT000022	130.6565	133.1956	131.7621	5.6855e-01	4.3065e+00
150	IHT000023	148.5539	151.2883	149.8468	5.8910e-01	4.3652e+00
151	IHT000024	113.4127	115.9518	114.4948	5.8289e-01	4.2569e+00
152	IHT000025	146.4581	148.9971	147.6065	5.6032e-01	4.3576e+00
153	IHT000026	149.2300	151.9644	150.6284	5.7367e-01	4.3679e+00
154	IHT000027	127.3137	130.2434	128.7238	5.6537e-01	4.2973e+00
155	IHT000028	127.9222	130.6566	129.2894	6.8799e-01	4.2990e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.9211	152.6555	151.0421	7.0896e-01	4.3694e+00
157	IHT000030	153.1888	155.9232	154.3217	6.7543e-01	4.3808e+00
158	IHT000031	149.7183	152.6480	151.0191	6.6569e-01	4.3693e+00
159	IHT000032	150.9540	153.6884	152.2822	6.3011e-01	4.3737e+00
160	IHT000033	150.7437	153.4781	152.2202	6.6399e-01	4.3735e+00
161	IHT000034	132.9214	135.6558	134.1597	5.8075e-01	4.3139e+00
162	IHT000035	174.1286	177.6442	176.2223	7.0370e-01	4.4627e+00
163	IHT000036	131.6331	133.7815	132.5902	5.1183e-01	4.3091e+00

Velocity 1 = 9.9826 (ft/sec) (+/- 3.8318 %)
Velocity 2 = 9.9924 (ft/sec) (+/- 3.5197 %)
Pressure drop = -1.4282 (psi)
Tsats in = 267.2606 (deg F) Tsats out = 269.1547 (deg F)
Phi inner = 201.1769 (kBtu/hr-ft2) (+/- 1.4534 %)
Phi outer = 201.6018 (kBtu/hr-ft2) (+/- 1.3490 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.3824	82.0168	81.7579	1.7934e-01	1.9001e+00
1	TRF000002	81.8719	82.5029	82.2025	1.2145e-01	1.9001e+00
2	TFM000001	85.2949	86.3442	85.7126	2.4275e-01	1.9002e+00
3	TIN000001	85.5689	86.3051	85.9404	1.5936e-01	1.9002e+00
4	TRV000001	86.4391	87.6966	87.0490	2.1559e-01	1.9002e+00
5	TSR000001	176.7544	178.4139	177.7261	4.1409e-01	1.9078e+00
6	EMPTY	37.9974	38.9168	38.4806	2.4033e-01	1.9010e+00
7	TAO050136	194.0917	195.9239	194.6785	2.8922e-01	1.9104e+00
8	TAO070136	197.7994	199.8364	198.7423	5.9069e-01	1.9111e+00
9	TAO080136	203.8897	206.1844	204.9274	6.1297e-01	1.9122e+00
10	TAO090136	214.9216	216.5417	215.6780	4.1199e-01	1.9142e+00
11	TAO100136	214.2070	215.3531	214.6225	2.8740e-01	1.9140e+00
12	TAO105136	215.0559	216.2969	215.7261	2.9834e-01	1.9143e+00
13	EMPTY	-0.2444	4.5316	1.8631	1.1709e+00	1.9000e+00
14	TAO115136	228.7125	230.2321	229.3855	3.3684e-01	1.9170e+00
15	EMPTY	32.0000	43.2713	38.9044	3.8463e+00	1.9010e+00
16	TAO125136	236.7895	237.7285	237.1061	2.0874e-01	1.9187e+00
17	EMPTY	44.8706	45.7833	45.3317	2.1591e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6693	8.0981e-02	1.9012e+00
19	TAO130048	228.5647	229.5092	229.0141	2.0974e-01	1.9170e+00
20	TAO120224	224.4059	225.4500	224.9095	2.5571e-01	1.9161e+00
21	EMPTY	39.1464	39.6057	39.2496	1.2455e-01	1.9010e+00
22	TAO120312	241.7457	242.6857	242.2081	2.5292e-01	1.9199e+00
23	TAO130312	233.9559	234.8982	234.5885	2.0881e-01	1.9182e+00
24	EMPTY	39.1464	39.8352	39.4792	1.6937e-01	1.9010e+00
25	TRT070000	190.9449	193.2872	192.2656	4.8452e-01	1.9100e+00
26	TRT100000	231.3983	232.3414	231.9489	2.0503e-01	1.9176e+00
27	TRT120000	236.1293	237.0710	236.5583	2.0441e-01	1.9186e+00
28	TRT125000	242.7870	243.5356	243.1977	1.6289e-01	1.9201e+00
29	EMPTY	39.8352	40.2940	40.1442	1.2868e-01	1.9011e+00
30	EMPTY	39.3761	40.2940	39.7743	2.1353e-01	1.9011e+00
31	TAF050136	126.2712	128.1971	127.2601	4.3305e-01	1.9022e+00
32	TAF070136	139.1548	141.5575	140.3580	5.3540e-01	1.9033e+00
33	TAF080136	144.8042	147.1922	146.2252	4.8343e-01	1.9039e+00
34	TAF090136	150.3194	152.4146	151.4436	4.8309e-01	1.9045e+00
35	TAF100136	158.6284	160.4175	159.3123	4.2630e-01	1.9054e+00
36	TAF105136	163.5813	164.9530	164.0967	2.9485e-01	1.9060e+00
37	TAF110136	169.0857	171.1446	170.1389	4.2405e-01	1.9067e+00
38	TAF115136	173.1829	174.9462	173.9819	3.8060e-01	1.9073e+00
39	TAF120136	177.1829	178.7422	177.8970	3.8944e-01	1.9078e+00
40	TAF125136	180.6755	183.2000	181.7407	4.5175e-01	1.9084e+00
41	TAF130136	184.6229	185.8874	185.2383	2.4750e-01	1.9089e+00
42	TAF120048	183.4977	185.2646	184.4290	4.2313e-01	1.9088e+00
43	TAF130048	189.8093	191.2650	190.5777	3.4300e-01	1.9098e+00
44	TAF120224	175.5792	177.5373	176.5445	3.9767e-01	1.9076e+00
45	TAF130224	181.3341	183.4925	182.3596	3.9902e-01	1.9085e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1898	3.0896e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7556	1.2874e-01	1.9011e+00
48	TAI130048	96.1213	99.9702	98.2558	9.6637e-01	1.9005e+00
49	TAI130136	240.7923	241.4489	241.1292	1.4063e-01	1.9196e+00
50	TAI130224	143.9297	146.3423	145.2001	5.8348e-01	1.9038e+00
51	TAI130312	219.6819	220.4446	220.0885	1.9526e-01	1.9151e+00
52	TRR130000	141.4444	144.1482	143.0449	6.3979e-01	1.9036e+00
53	TSI000001	43.2772	44.2547	43.8046	2.1270e-01	1.9005e+00
54	TSI000002	99.8440	102.0190	100.9141	4.6281e-01	1.9006e+00
55	TSO000001	41.4950	42.3696	41.9211	2.0235e-01	1.9005e+00
56	TSO000002	55.2540	56.3311	55.7661	2.3735e-01	1.9001e+00
57	TAF020136	102.0518	104.5539	103.1506	5.1283e-01	1.9007e+00
58	EMPTY	42.8139	43.5000	43.2340	2.5715e-01	1.9013e+00
59	TAF130312	197.8007	199.8240	198.8889	4.6861e-01	1.9112e+00
60	EMPTY	3.0078	3.0322	3.0176	6.1441e-03	0.0000e+00
61	EMPTY	3.0029	3.0225	3.0114	5.0602e-03	0.0000e+00
62	EMPTY	2.9980	3.0176	3.0059	4.7609e-03	0.0000e+00
63	EMPTY	2.9980	3.0127	3.0067	4.5962e-03	0.0000e+00
64	EMPTY	1.4697	1.4844	1.4725	2.9901e-03	0.0000e+00
65	EMPTY	1.4844	1.4893	1.4871	2.4538e-03	0.0000e+00
66	EMPTY	1.4941	1.5039	1.4979	2.2871e-03	0.0000e+00
67	EMPTY	1.5088	1.5137	1.5107	2.4037e-03	0.0000e+00
68	EMPTY	1.5137	1.5186	1.5181	1.4934e-03	0.0000e+00
69	EMPTY	1.5283	1.5332	1.5309	2.4621e-03	0.0000e+00
70	EMPTY	1.5381	1.5430	1.5412	2.3783e-03	0.0000e+00
71	EMPTY	1.5576	1.5625	1.5582	1.6172e-03	0.0000e+00
72	EMPTY	1.5625	1.5674	1.5668	1.6172e-03	0.0000e+00
73	EMPTY	1.5771	1.5820	1.5809	2.0584e-03	0.0000e+00
74	EMPTY	1.5869	1.5918	1.5909	1.9103e-03	0.0000e+00
75	EMPTY	1.6016	1.6064	1.6022	1.6172e-03	0.0000e+00
76	EMPTY	1.6113	1.6162	1.6114	6.9754e-04	0.0000e+00
77	EMPTY	1.6211	1.6260	1.6259	6.9754e-04	0.0000e+00
78	EMPTY	1.6406	1.6455	1.6426	2.4247e-03	0.0000e+00
79	EMPTY	1.6602	1.6602	1.6602	0.0000e+00	0.0000e+00
80	PAN020136	-13.8019	11.2226	-2.2301	5.5502e+00	8.7002e-01
81	PAN050136	-17.1260	-2.7827	-9.7613	3.6791e+00	1.6802e+00
82	PAN070136	-15.8467	0.0987	-6.8923	4.2198e+00	8.7017e-01
83	PAN080136	-13.9543	8.1709	-2.4619	5.2726e+00	8.7002e-01
84	PAN090136	-13.3204	3.3879	-6.7529	4.6993e+00	8.7016e-01
85	PAN100136	-12.8584	4.5367	-4.3399	4.2804e+00	8.7007e-01
86	PAN105136	-6.2759	7.4570	-0.4277	2.9612e+00	8.7000e-01
87	PAN110136	-6.7232	12.1977	0.9124	5.0537e+00	8.7000e-01
88	PAN115136	-7.5479	9.5419	-0.4028	4.5869e+00	8.7000e-01
89	PAN120136	-6.9390	3.6658	-2.4595	3.3821e+00	8.7002e-01
90	PAN125136	-6.0353	1.5941	-3.0380	2.3524e+00	8.7003e-01
91	PAN130136	-6.2523	7.1754	0.0365	2.2467e+00	8.7000e-01
92	PAN120048	-12.4226	5.6590	-2.8547	3.9697e+00	8.7003e-01
93	PAN130048	-7.7437	3.7766	-1.8349	3.0591e+00	8.7001e-01
94	PAN120224	-13.1048	-1.3555	-6.5342	2.9318e+00	8.7015e-01
95	PAN130224	-9.0450	8.1974	-0.5157	3.4584e+00	8.7000e-01
96	PAN120312	-8.6856	-0.0643	-3.5583	2.1933e+00	8.7005e-01
97	PAN130312	-6.0197	0.0838	-3.1797	1.5582e+00	8.7004e-01
98	PAB000136	39.5118	40.4274	39.9276	2.7176e-01	5.8853e-01
99	PAB100136	40.6043	41.1078	40.9555	1.2480e-01	5.8897e-01
100	PAB125136	40.9977	41.4097	41.2144	9.1446e-02	5.8908e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.0602	40.5251	39.9122	3.9120e-01	7.5661e-01
102	PRV000001	19.5572	19.6793	19.6743	2.4404e-02	7.5161e-01
103	PSR000001	40.7129	40.9571	40.8574	5.3867e-02	7.5692e-01
104	PFM000001	15.0691	15.7100	15.4017	1.3694e-01	5.0148e-01
105	PAN000136	-51.9470	-27.6855	-39.5407	7.7060e+00	4.9210e+00
106	PFM000002	15.1880	15.5907	15.4325	9.5598e-02	2.0369e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0035	2.2287e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.6965	145.8684	145.2146	2.7492e-01	1.1896e+00
113	VPW000002	168.7350	169.3209	169.0617	1.6624e-01	1.2981e+00
114	VPW000003	208.7252	209.5065	209.0880	1.9531e-01	1.4933e+00
115	VPW000004	148.5427	149.7145	149.1086	3.2203e-01	1.2069e+00
116	VPW000005	196.9201	199.2638	198.1317	5.6096e-01	1.4385e+00
117	VPW000006	207.6022	208.3834	207.8772	2.1439e-01	1.4872e+00
118	IPW000001	758.2602	766.0696	763.3203	1.8227e+00	1.0098e+01
119	IPW000002	1847.5897	1855.3948	1852.2892	2.0278e+00	1.6725e+01
120	IPW000003	1865.2501	1873.0500	1868.9509	1.9191e+00	1.6841e+01
121	IPW000004	533.0529	538.4240	535.4443	1.2928e+00	4.6790e+00
122	IPW000005	354.9261	359.3203	356.9886	1.0792e+00	3.4574e+00
123	IPW000006	375.4413	377.3944	376.3083	5.2990e-01	3.5830e+00
124	EMPTY	-0.0293	-0.0146	-0.0198	4.0373e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0133	2.2287e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0154	3.6413e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	3.1486e-03	0.0000e+00
128	IHT000001	184.1572	187.2822	185.6958	6.1716e-01	4.5009e+00
129	IHT000002	183.7515	186.2905	184.9353	5.8241e-01	4.4978e+00
130	IHT000003	183.2181	185.9525	184.6531	5.5751e-01	4.4966e+00
131	IHT000004	185.5356	188.2700	186.9825	6.0189e-01	4.5062e+00
132	IHT000005	183.1205	185.8549	184.5196	5.7546e-01	4.4961e+00
133	IHT000006	178.6846	181.2237	180.0159	5.5911e-01	4.4778e+00
134	IHT000007	186.8277	189.3667	187.8680	5.2041e-01	4.5099e+00
135	IHT000008	185.2840	187.6277	186.3005	5.2586e-01	4.5034e+00
136	IHT000009	184.1834	186.9178	185.2079	5.4596e-01	4.4989e+00
137	IHT000010	184.7731	187.1169	185.7497	5.4373e-01	4.5011e+00
138	IHT000011	185.8887	188.4277	187.0924	5.3242e-01	4.5067e+00
139	IHT000012	184.0896	187.2146	185.4766	5.9167e-01	4.5000e+00
140	IHT000013	130.6791	133.6088	132.2098	6.3956e-01	4.3079e+00
141	IHT000014	180.3523	183.8679	182.0704	7.6374e-01	4.4861e+00
142	IHT000015	133.5712	136.6962	135.1657	6.0245e-01	4.3171e+00
143	IHT000016	125.3793	128.3090	126.8622	5.8583e-01	4.2918e+00
144	IHT000017	149.9587	152.8884	151.4972	5.7031e-01	4.3709e+00
145	IHT000018	151.8667	154.4058	153.0466	5.7631e-01	4.3763e+00
146	IHT000019	152.5428	154.8866	153.9021	5.7216e-01	4.3793e+00
147	IHT000020	150.7324	153.0762	151.7568	5.5319e-01	4.3718e+00
148	IHT000021	-3.0274	0.2930	-1.6442	6.6930e-01	4.1000e+00
149	IHT000022	130.6565	133.3909	131.8444	6.2890e-01	4.3068e+00
150	IHT000023	148.7493	151.4836	149.8692	5.9238e-01	4.3653e+00
151	IHT000024	113.4127	115.9518	114.5009	5.9134e-01	4.2569e+00
152	IHT000025	146.4581	148.9971	147.6658	6.0024e-01	4.3578e+00
153	IHT000026	149.4253	151.9644	150.6649	6.0008e-01	4.3681e+00
154	IHT000027	127.1184	130.4387	128.8123	7.0012e-01	4.2976e+00
155	IHT000028	127.9222	130.8519	129.4449	6.3160e-01	4.2995e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.5305	152.4602	151.0929	6.0856e-01	4.3695e+00
157	IHT000030	152.7982	155.9232	154.3807	6.4439e-01	4.3810e+00
158	IHT000031	149.7183	152.6480	151.0297	6.4037e-01	4.3693e+00
159	IHT000032	150.7587	154.0790	152.3093	6.7706e-01	4.3738e+00
160	IHT000033	150.7437	154.2593	152.2424	6.9098e-01	4.3735e+00
161	IHT000034	132.7261	135.2652	134.1610	5.0516e-01	4.3139e+00
162	IHT000035	175.1052	177.6442	176.2212	6.0725e-01	4.4627e+00
163	IHT000036	131.4378	133.7815	132.6615	4.9116e-01	4.3093e+00

Velocity 1 = 0.007200 (ft/sec)
 Velocity 2 = 0.000999 (ft/sec)
 Pressure Drop = 0.043300 (psi)
 Tsat in = 0.257721 (deg F) Tsat out = 0.182220 (deg F)
 Phi inner = 2.721100 (kBtu/hr-ft2) Phi outer = 1.756714 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0709	0.0868
1	TRF000002	0.0739	0.0900
2	TFM000001	0.3184	0.3701
3	TIN000001	0.2239	0.2599
4	TRV000001	0.4017	0.4593
5	TSR000001	0.4934	0.2768
6	EMPTY	0.0050	0.0130
7	TAO050136	0.3599	0.1845
8	TAO070136	0.8830	0.4423
9	TAO080136	0.0859	0.0419
10	TAO090136	1.8151	0.8487
11	TAO100136	0.3313	0.1541
12	TAO105136	0.5609	0.2593
13	EMPTY	1.3495	262.7531
14	TAO115136	0.5794	0.2520
15	EMPTY	0.4518	1.1750
16	TAO125136	0.4993	0.2101
17	EMPTY	0.0549	0.1213
18	EMPTY	0.0275	0.0660
19	TAO130048	0.3487	0.1520
20	TAO120224	0.5799	0.2572
21	EMPTY	0.0163	0.0415
22	TAO120312	0.3328	0.1372
23	TAO130312	0.4084	0.1738
24	EMPTY	0.0117	0.0296
25	TRT070000	0.2475	0.1286
26	TRT100000	0.3300	0.1421
27	TRT120000	0.2775	0.1172
28	TRT125000	0.4386	0.1800
29	EMPTY	0.0015	0.0037
30	EMPTY	0.0104	0.0261
31	TAF050136	0.4518	0.3538
32	TAF070136	0.3517	0.2499
33	TAF080136	0.2613	0.1784
34	TAF090136	0.3145	0.2072
35	TAF100136	0.3759	0.2354
36	TAF105136	0.4966	0.3017
37	TAF110136	0.5488	0.3215
38	TAF115136	0.3991	0.2289
39	TAF120136	0.4449	0.2495
40	TAF125136	0.5638	0.3093
41	TAF130136	0.5024	0.2705
42	TAF120048	0.4372	0.2365
43	TAF130048	0.4909	0.2569
44	TAF120224	0.5206	0.2940
45	TAF130224	0.4567	0.2498

#	Name	Abs Diff	%Diff
46	EMPTY	0.1019	0.2661
47	EMPTY	0.1209	0.3032
48	TAI130048	4.3048	4.5820
49	TAI130136	0.4439	0.1838
50	TAI130224	1.8520	1.2920
51	TAI130312	0.4503	0.2050
52	TRR130000	1.7107	1.2104
53	TSI000001	0.0519	0.1186
54	TSI000002	2.3805	2.3046
55	TSO000001	0.0696	0.1663
56	TSO000002	0.1275	0.2281
57	TAF020136	0.3100	0.2996
58	EMPTY	0.0862	0.1998
59	TAF130312	0.4558	0.2286
60	EMPTY	0.0133	0.4388
61	EMPTY	0.0124	0.4101
62	EMPTY	0.0125	0.4141
63	EMPTY	0.0132	0.4371
64	EMPTY	0.0056	0.3789
65	EMPTY	0.0057	0.3818
66	EMPTY	0.0051	0.3393
67	EMPTY	0.0037	0.2443
68	EMPTY	0.0054	0.3544
69	EMPTY	0.0045	0.2931
70	EMPTY	0.0046	0.2976
71	EMPTY	0.0044	0.2816
72	EMPTY	0.0048	0.3054
73	EMPTY	0.0036	0.2272
74	EMPTY	0.0040	0.2508
75	EMPTY	0.0042	0.2615
76	EMPTY	0.0047	0.2908
77	EMPTY	0.0041	0.2515
78	EMPTY	0.0029	0.1762
79	EMPTY	0.0049	0.2943
80	PAN020136	1.6210	266.1303
81	PAN050136	0.9896	9.2048
82	PAN070136	1.2167	15.0043
83	PAN080136	0.0677	2.8277
84	PAN090136	1.1671	20.8941
85	PAN100136	0.7121	14.0954
86	PAN105136	1.1464	159.5102
87	PAN110136	1.0695	53.9634
88	PAN115136	1.9800	83.0955
89	PAN120136	0.8311	25.2568
90	PAN125136	0.9227	43.6203
91	PAN130136	0.9850	96.4268
92	PAN120048	1.8882	39.8111
93	PAN130048	1.2552	216.5258
94	PAN120224	0.4213	6.0571
95	PAN130224	0.0125	2.4841
96	PAN120312	0.7312	17.0463
97	PAN130312	0.2887	8.3237
98	PAB000136	0.1729	0.4312
99	PAB100136	0.0946	0.2304
100	PAB125136	0.1257	0.3041

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0000	0.0000
102	PRV000001	0.2489	1.2813
103	PSR000001	0.0679	0.1659
104	PFM000001	0.0231	0.1502
105	PAN000136	1.1984	3.1255
106	PFM000002	0.0021	0.0136
107	EMPTY	0.0003	6.5217
108	EMPTY	0.0000	0.0000
109	EMPTY	0.0024	218.1818
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.1315	0.0906
113	VPW000002	0.0494	0.0292
114	VPW000003	0.0318	0.0152
115	VPW000004	0.0160	0.0107
116	VPW000005	0.0008	0.0004
117	VPW000006	0.0367	0.0177
118	IPW000001	25.7871	3.2679
119	IPW000002	53.9498	3.0000
120	IPW000003	26.8276	1.4563
121	IPW000004	4.5226	0.8376
122	IPW000005	0.6076	0.1705
123	IPW000006	3.7478	1.0060
124	EMPTY	0.0007	3.4146
125	EMPTY	0.0017	11.3333
126	EMPTY	0.0023	12.9943
127	EMPTY	0.0014	8.2353
128	IHT000001	0.1910	0.1030
129	IHT000002	0.1525	0.0825
130	IHT000003	0.1771	0.0960
131	IHT000004	0.2047	0.1096
132	IHT000005	0.1530	0.0830
133	IHT000006	0.1829	0.1017
134	IHT000007	0.1965	0.1047
135	IHT000008	0.2157	0.1159
136	IHT000009	0.1455	0.0786
137	IHT000010	0.1641	0.0884
138	IHT000011	0.2467	0.1320
139	IHT000012	0.2035	0.1098
140	IHT000013	0.1322	0.1001
141	IHT000014	0.1594	0.0876
142	IHT000015	0.1413	0.1046
143	IHT000016	0.2836	0.2241
144	IHT000017	0.8355	0.5546
145	IHT000018	0.2268	0.1484
146	IHT000019	0.1720	0.1116
147	IHT000020	0.0010	0.0007
148	IHT000021	0.0628	3.6790
149	IHT000022	0.0823	0.0625
150	IHT000023	0.0224	0.0149
151	IHT000024	0.0061	0.0053
152	IHT000025	0.0593	0.0402
153	IHT000026	0.0365	0.0242
154	IHT000027	0.0885	0.0688
155	IHT000028	0.1555	0.1203

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0508	0.0336
157	IHT000030	0.0590	0.0382
158	IHT000031	0.0106	0.0070
159	IHT000032	0.0271	0.0178
160	IHT000033	0.0222	0.0146
161	IHT000034	0.0013	0.0010
162	IHT000035	0.0011	0.0006
163	IHT000036	0.0713	0.0538

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910

301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

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Velocity 1 = 9.0108 (ft/sec) (+/- 4.0041 %)
 Velocity 2 = 9.0438 (ft/sec) (+/- 3.5436 %)
 Pressure drop = -2.0651 (psi)
 Tsat in = 267.4352 (deg F) Tsat out = 270.2271 (deg F)
 Phi inner = 199.4709 (kBtu/hr-ft2) (+/- 1.4546 %)
 Phi outer = 200.9884 (kBtu/hr-ft2) (+/- 1.3489 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.5939	82.2281	81.9153	1.8242e-01	1.9001e+00
1	TRF000002	82.0823	82.7132	82.3810	1.5950e-01	1.9001e+00
2	TFM000001	85.1901	86.0299	85.6251	1.8962e-01	1.9002e+00
3	TIN000001	85.4639	86.0948	85.7563	1.4913e-01	1.9002e+00
4	TRV000001	86.6501	87.4883	87.1337	2.0835e-01	1.9002e+00
5	TSR000001	180.7524	182.9901	181.6222	6.4312e-01	1.9084e+00
6	EMPTY	38.2273	38.9168	38.5123	2.4812e-01	1.9010e+00
7	TAO050136	202.1668	203.9900	202.8028	3.8485e-01	1.9118e+00
8	TAO070136	205.8347	213.6353	207.9155	1.5281e+00	1.9128e+00
9	TAO080136	213.6136	214.9445	214.2060	3.1640e-01	1.9140e+00
10	TAO090136	223.0028	223.9517	223.3311	1.7898e-01	1.9158e+00
11	TAO100136	225.1459	226.5675	225.6789	2.7144e-01	1.9163e+00
12	TAO105136	226.0893	227.5108	226.8912	2.9728e-01	1.9165e+00
13	EMPTY	14.2480	16.6029	15.6191	5.8006e-01	1.9002e+00
14	TAO115136	240.4539	241.7729	240.9304	2.7880e-01	1.9196e+00
15	EMPTY	31.5371	43.0426	38.3225	3.4011e+00	1.9010e+00
16	TAO125136	250.1388	251.3471	250.6537	2.4467e-01	1.9219e+00
17	EMPTY	44.8706	45.7833	45.3590	1.8444e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6831	1.2596e-01	1.9012e+00
19	TAO130048	241.3304	242.3611	241.7746	2.3219e-01	1.9198e+00
20	TAO120224	236.4125	237.6368	236.9683	2.7973e-01	1.9187e+00
21	EMPTY	39.1464	39.6057	39.4128	1.3412e-01	1.9010e+00
22	TAO120312	255.4118	256.7162	256.0770	3.1833e-01	1.9232e+00
23	TAO130312	247.5405	248.7547	248.0806	2.6221e-01	1.9211e+00
24	EMPTY	39.1464	39.8352	39.5368	1.7508e-01	1.9011e+00
25	TRT070000	198.6462	202.3393	200.7250	7.2773e-01	1.9115e+00
26	TRT100000	243.9844	245.2947	244.5852	2.5099e-01	1.9204e+00
27	TRT120000	250.0026	250.8431	250.4154	2.0152e-01	1.9218e+00
28	TRT125000	256.8020	257.9147	257.2494	2.2897e-01	1.9235e+00
29	EMPTY	40.0646	40.5234	40.1839	1.2471e-01	1.9011e+00
30	EMPTY	39.3761	40.2940	39.7984	2.2885e-01	1.9011e+00
31	TAF050136	130.3198	132.6432	131.5583	4.4262e-01	1.9026e+00
32	TAF070136	145.5497	147.7424	146.2971	4.3934e-01	1.9039e+00
33	TAF080136	151.7568	154.0318	152.8556	5.6638e-01	1.9046e+00
34	TAF090136	157.2886	159.6692	158.6087	4.4105e-01	1.9053e+00
35	TAF100136	166.6596	168.6356	167.4246	5.1611e-01	1.9064e+00
36	TAF105136	171.8902	173.8373	172.8075	4.4437e-01	1.9071e+00
37	TAF110136	178.6654	180.4188	179.4741	4.0632e-01	1.9081e+00
38	TAF115136	182.2711	184.3162	183.4066	4.3959e-01	1.9086e+00
39	TAF120136	186.7955	188.7310	187.7628	4.2413e-01	1.9093e+00
40	TAF125136	191.0227	193.2391	191.9745	4.4899e-01	1.9100e+00
41	TAF130136	195.2766	197.1100	196.0280	4.4752e-01	1.9107e+00
42	TAF120048	193.5783	195.8191	194.7184	4.5314e-01	1.9105e+00
43	TAF130048	200.7355	203.0455	201.7232	4.9233e-01	1.9117e+00
44	TAF120224	185.2407	187.6706	186.3438	5.1265e-01	1.9091e+00
45	TAF130224	192.1914	193.8493	192.8570	4.5458e-01	1.9101e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.9168	38.2503	3.1584e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.8994	1.0408e-01	1.9011e+00
48	TAI130048	81.0312	83.6646	82.6226	5.7574e-01	1.9001e+00
49	TAI130136	254.5870	255.4243	254.9167	1.8131e-01	1.9229e+00
50	TAI130224	158.4400	160.4294	159.3618	4.8015e-01	1.9054e+00
51	TAI130312	222.4431	224.0603	223.1873	3.6841e-01	1.9157e+00
52	TRR130000	148.0422	150.4335	149.0928	5.7966e-01	1.9042e+00
53	TSI000001	43.4949	44.4723	43.9704	2.3105e-01	1.9005e+00
54	TSI000002	106.3566	108.2123	107.3236	4.3813e-01	1.9009e+00
55	TSO000001	41.3852	42.1496	41.7715	1.9651e-01	1.9005e+00
56	TSO000002	56.0077	56.9768	56.4578	2.2985e-01	1.9001e+00
57	TAF020136	103.8255	106.9463	105.2092	6.1298e-01	1.9008e+00
58	EMPTY	42.8139	43.5000	43.1844	2.7679e-01	1.9013e+00
59	TAF130312	209.9921	212.1909	211.0230	5.4647e-01	1.9134e+00
60	EMPTY	3.3057	3.3350	3.3186	7.7525e-03	0.0000e+00
61	EMPTY	3.2959	3.3203	3.3101	5.9394e-03	0.0000e+00
62	EMPTY	3.2959	3.3105	3.3018	4.9324e-03	0.0000e+00
63	EMPTY	3.2959	3.3057	3.3002	4.2590e-03	0.0000e+00
64	EMPTY	1.5967	1.6064	1.6005	2.4741e-03	0.0000e+00
65	EMPTY	1.6113	1.6211	1.6146	2.5362e-03	0.0000e+00
66	EMPTY	1.6211	1.6260	1.6234	2.4642e-03	0.0000e+00
67	EMPTY	1.6357	1.6406	1.6358	6.9053e-04	0.0000e+00
68	EMPTY	1.6406	1.6455	1.6425	2.3941e-03	0.0000e+00
69	EMPTY	1.6504	1.6553	1.6544	1.8950e-03	0.0000e+00
70	EMPTY	1.6602	1.6699	1.6637	2.6174e-03	0.0000e+00
71	EMPTY	1.6797	1.6846	1.6801	1.3381e-03	0.0000e+00
72	EMPTY	1.6846	1.6895	1.6877	2.3675e-03	0.0000e+00
73	EMPTY	1.6992	1.7041	1.6999	1.7115e-03	0.0000e+00
74	EMPTY	1.7090	1.7139	1.7098	1.8082e-03	0.0000e+00
75	EMPTY	1.7188	1.7236	1.7207	2.4164e-03	0.0000e+00
76	EMPTY	1.7285	1.7334	1.7291	1.6028e-03	0.0000e+00
77	EMPTY	1.7432	1.7480	1.7434	9.6655e-04	0.0000e+00
78	EMPTY	1.7578	1.7676	1.7591	2.3778e-03	0.0000e+00
79	EMPTY	1.7725	1.7822	1.7773	9.8648e-04	0.0000e+00
80	PAN020136	-19.0661	3.8220	-6.2259	5.3028e+00	8.7014e-01
81	PAN050136	-22.6191	-5.3767	-15.1576	4.1372e+00	1.6804e+00
82	PAN070136	-21.5688	-0.5117	-14.0203	5.2397e+00	8.7071e-01
83	PAN080136	-13.9543	9.4679	-2.1806	6.3471e+00	8.7002e-01
84	PAN090136	-13.3204	5.2953	-4.6824	5.1867e+00	8.7008e-01
85	PAN100136	-12.9347	1.0271	-6.7075	3.5247e+00	8.7016e-01
86	PAN105136	-6.2759	7.0755	-0.6576	3.9315e+00	8.7000e-01
87	PAN110136	-6.7995	9.9088	-1.8542	3.9683e+00	8.7001e-01
88	PAN115136	-7.5479	4.9643	-0.5731	3.1730e+00	8.7000e-01
89	PAN120136	-7.0153	-0.3015	-3.3151	1.8665e+00	8.7004e-01
90	PAN125136	-6.0353	2.6622	-1.7415	2.7345e+00	8.7001e-01
91	PAN130136	-3.8872	8.0909	0.9910	2.8333e+00	8.7000e-01
92	PAN120048	-12.2700	1.9969	-6.4717	2.9827e+00	8.7015e-01
93	PAN130048	-7.4386	4.9211	-2.4673	2.4547e+00	8.7002e-01
94	PAN120224	-11.2738	0.2466	-5.1275	3.0175e+00	8.7009e-01
95	PAN130224	-7.5954	5.1456	-0.9243	2.4770e+00	8.7000e-01
96	PAN120312	-11.5847	-0.8273	-4.7076	2.4180e+00	8.7008e-01
97	PAN130312	-6.7826	2.5252	-3.6973	1.5113e+00	8.7005e-01
98	PAB000136	39.5576	40.4274	40.0447	2.6576e-01	5.8858e-01
99	PAB100136	41.1994	41.8860	41.5921	1.6777e-01	5.8925e-01
100	PAB125136	41.8217	42.2795	41.9590	1.0003e-01	5.8941e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	38.8161	40.4030	39.8854	4.0864e-01	7.5660e-01
102	PRV0000001	20.0455	20.1676	20.0772	5.4088e-02	7.5168e-01
103	PSR0000001	41.5674	41.6895	41.6700	4.5206e-02	7.5720e-01
104	PFM0000001	12.3226	12.6888	12.5240	9.6110e-02	5.0098e-01
105	PAN000136	-71.6309	-45.9961	-57.1747	7.4574e+00	4.9221e+00
106	PFM0000002	12.4528	12.7717	12.6170	6.6283e-02	2.0247e-01
107	EMPTY	-0.0049	0.0098	0.0042	2.6118e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0013	2.1635e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	144.6965	145.6731	145.2081	2.0839e-01	1.1896e+00
113	VPW0000002	168.7350	169.3209	169.0435	1.3141e-01	1.2980e+00
114	VPW0000003	208.9205	209.5065	209.2213	1.2608e-01	1.4940e+00
115	VPW0000004	148.7380	149.5192	149.1949	1.9969e-01	1.2072e+00
116	VPW0000005	197.3107	199.0685	198.2911	4.1100e-01	1.4393e+00
117	VPW0000006	207.7975	208.1881	207.9655	1.3093e-01	1.4876e+00
118	IPW0000001	777.7836	787.5453	781.8052	2.0270e+00	1.0186e+01
119	IPW0000002	1818.3207	1826.1257	1822.6921	1.8724e+00	1.6521e+01
120	IPW0000003	1847.7001	1853.5500	1851.2878	1.7334e+00	1.6718e+01
121	IPW0000004	535.9826	539.8889	538.2969	8.3595e-01	4.6994e+00
122	IPW0000005	355.4144	359.8085	357.3965	1.0779e+00	3.4600e+00
123	IPW0000006	372.9999	374.4647	373.5957	4.3326e-01	3.5652e+00
124	EMPTY	-0.0293	-0.0146	-0.0203	4.1102e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0147	2.3114e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0168	3.1444e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.9656e-03	0.0000e+00
128	IHT0000001	183.9618	187.0868	185.3994	6.4448e-01	4.4997e+00
129	IHT0000002	183.3609	186.4859	184.6578	6.3351e-01	4.4966e+00
130	IHT0000003	183.0228	186.1478	184.4213	6.4157e-01	4.4957e+00
131	IHT0000004	185.3403	188.4653	186.7504	6.7921e-01	4.5053e+00
132	IHT0000005	183.1205	186.2455	184.3315	6.8912e-01	4.4953e+00
133	IHT0000006	178.6846	181.4190	179.8330	6.6103e-01	4.4771e+00
134	IHT0000007	186.4370	189.1714	187.7105	6.1793e-01	4.5093e+00
135	IHT0000008	184.5027	187.6277	186.1239	5.8294e-01	4.5027e+00
136	IHT0000009	183.5975	186.3319	185.0312	5.6718e-01	4.4982e+00
137	IHT0000010	184.5778	186.7263	185.5661	5.5300e-01	4.5004e+00
138	IHT0000011	185.8887	188.0371	186.8418	5.4909e-01	4.5057e+00
139	IHT0000012	184.2849	186.4333	185.2926	5.6821e-01	4.4993e+00
140	IHT0000013	131.0697	133.2181	132.0307	5.7432e-01	4.3073e+00
141	IHT0000014	180.7429	183.4773	181.9540	6.6028e-01	4.4856e+00
142	IHT0000015	133.7665	136.1103	134.9853	5.4184e-01	4.3165e+00
143	IHT0000016	125.5747	127.7231	126.6645	5.2064e-01	4.2912e+00
144	IHT0000017	149.3727	152.1071	150.6071	7.0635e-01	4.3679e+00
145	IHT0000018	151.2808	153.8199	152.7652	5.7453e-01	4.3754e+00
146	IHT0000019	152.5428	155.6678	154.1640	5.2682e-01	4.3803e+00
147	IHT0000020	150.3418	153.0762	151.8691	5.0638e-01	4.3722e+00
148	IHT0000021	-3.2227	0.0976	-1.4063	6.1921e-01	4.1000e+00
149	IHT0000022	130.4612	133.1956	131.9261	5.3270e-01	4.3070e+00
150	IHT0000023	148.9446	151.0930	150.0070	4.7541e-01	4.3658e+00
151	IHT0000024	113.6080	115.7565	114.5885	4.8083e-01	4.2571e+00
152	IHT0000025	146.6534	148.9971	147.8213	4.7267e-01	4.3583e+00
153	IHT0000026	149.6207	151.9644	150.6675	4.9875e-01	4.3681e+00
154	IHT0000027	127.7043	129.8528	128.8214	5.4109e-01	4.2976e+00
155	IHT0000028	127.9222	130.0706	129.1136	6.1416e-01	4.2985e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.7258	151.8743	150.8038	6.1287e-01	4.3685e+00
157	IHT000030	152.7982	155.3373	154.0756	6.3652e-01	4.3799e+00
158	IHT000031	149.3277	152.2573	150.7183	6.9993e-01	4.3682e+00
159	IHT000032	150.7587	153.8837	152.0517	6.6368e-01	4.3729e+00
160	IHT000033	150.7437	153.8687	151.9624	6.5976e-01	4.3726e+00
161	IHT000034	133.1167	135.2652	133.9448	5.1684e-01	4.3132e+00
162	IHT000035	175.1052	177.2536	176.0582	5.5753e-01	4.4620e+00
163	IHT000036	131.4378	133.5862	132.3910	4.7292e-01	4.3084e+00

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Velocity 1 = 9.0017 (ft/sec) (+/- 4.0061 %)
Velocity 2 = 9.0179 (ft/sec) (+/- 3.5444 %)
Pressure drop = -2.0946 (psi)
Tsats in = 267.3935 (deg F) Tsats out = 270.2271 (deg F)
Phi inner = 199.6599 (kBtu/hr-ft2) (+/- 1.4544 %)
Phi outer = 200.9892 (kBtu/hr-ft2) (+/- 1.3492 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.8053	82.4395	82.0944	1.6541e-01	1.9001e+00
1	TRF000002	82.2926	82.7132	82.5201	1.2761e-01	1.9001e+00
2	TFM000001	85.5053	86.1353	85.8291	1.7502e-01	1.9002e+00
3	TIN000001	85.5688	86.3050	85.9232	1.6303e-01	1.9002e+00
4	TRV000001	86.9646	87.9073	87.3491	2.2241e-01	1.9002e+00
5	TSR000001	183.6702	185.4189	184.6915	3.9900e-01	1.9088e+00
6	EMPTY	37.9974	38.9168	38.4900	2.4823e-01	1.9010e+00
7	TAO050136	202.3611	203.3199	202.8147	1.8960e-01	1.9118e+00
8	TAO070136	206.2205	208.5344	207.3716	5.2130e-01	1.9127e+00
9	TAO080136	213.7108	214.9458	214.3547	2.6906e-01	1.9140e+00
10	TAO090136	224.6140	225.7517	225.1500	1.9968e-01	1.9161e+00
11	TAO100136	225.3360	226.2839	225.7113	2.1627e-01	1.9163e+00
12	TAO105136	226.3743	227.3216	226.8323	2.2086e-01	1.9165e+00
13	EMPTY	4.0550	7.8605	5.7893	9.9730e-01	1.9000e+00
14	TAO115136	241.1130	242.0557	241.5092	2.1933e-01	1.9197e+00
15	EMPTY	31.5371	43.2713	38.9699	3.8730e+00	1.9010e+00
16	TAO125136	250.0457	251.1619	250.5076	2.4523e-01	1.9218e+00
17	EMPTY	44.8706	45.5552	45.2572	1.9319e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6833	9.8161e-02	1.9012e+00
19	TAO130048	241.8922	242.8288	242.3298	2.1968e-01	1.9199e+00
20	TAO120224	236.2242	237.6374	237.0182	2.7661e-01	1.9187e+00
21	EMPTY	39.1464	39.6057	39.3948	1.3120e-01	1.9010e+00
22	TAO120312	255.6912	256.6229	256.1590	2.2940e-01	1.9232e+00
23	TAO130312	248.0077	248.8480	248.3110	1.6565e-01	1.9213e+00
24	EMPTY	39.1464	39.8352	39.5447	1.9194e-01	1.9011e+00
25	TRT070000	198.9376	201.9503	200.9310	6.0827e-01	1.9115e+00
26	TRT100000	244.1721	245.1082	244.7448	2.1327e-01	1.9205e+00
27	TRT120000	250.0963	250.8435	250.5802	1.8740e-01	1.9218e+00
28	TRT125000	255.9895	257.7300	257.3820	1.6856e-01	1.9235e+00
29	EMPTY	40.0646	40.2940	40.1349	1.0683e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.8399	1.9023e-01	1.9011e+00
31	TAF050136	130.8251	132.6432	131.6935	4.4628e-01	1.9026e+00
32	TAF070136	144.9521	147.7438	146.4354	5.5054e-01	1.9039e+00
33	TAF080136	151.9548	154.5284	153.0772	6.4654e-01	1.9046e+00
34	TAF090136	157.6861	159.8678	158.8161	4.4635e-01	1.9053e+00
35	TAF100136	166.5609	168.5370	167.5592	4.4698e-01	1.9064e+00
36	TAF105136	171.8902	174.2285	172.7999	4.5798e-01	1.9071e+00
37	TAF110136	178.6665	181.1004	179.7041	4.6719e-01	1.9081e+00
38	TAF115136	182.9535	184.4129	183.5634	3.6515e-01	1.9087e+00
39	TAF120136	187.0875	189.3120	187.8487	4.4800e-01	1.9093e+00
40	TAF125136	191.3138	194.0105	192.2407	5.7433e-01	1.9100e+00
41	TAF130136	195.3738	196.8215	196.0183	3.4354e-01	1.9107e+00
42	TAF120048	194.2601	196.3044	194.9894	4.8588e-01	1.9105e+00
43	TAF130048	201.2170	203.1416	201.9793	4.6185e-01	1.9117e+00
44	TAF120224	185.5339	187.6716	186.4798	4.5220e-01	1.9091e+00
45	TAF130224	192.1922	194.3340	193.0647	5.3805e-01	1.9102e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.9168	38.2085	3.2115e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8446	1.3216e-01	1.9011e+00
48	TAI130048	85.5571	89.3335	86.9625	8.0238e-01	1.9002e+00
49	TAI130136	254.8664	255.4251	255.1911	1.4091e-01	1.9230e+00
50	TAI130224	153.7536	156.6475	155.3324	6.8298e-01	1.9049e+00
51	TAI130312	219.1097	220.4443	219.8200	2.9384e-01	1.9151e+00
52	TRR130000	143.8484	146.6469	145.2585	6.5445e-01	1.9038e+00
53	TSI000001	43.3865	44.0386	43.6951	1.6047e-01	1.9005e+00
54	TSI000002	104.7067	106.7697	105.8671	4.8276e-01	1.9009e+00
55	TSO000001	41.2739	42.0399	41.6647	1.8004e-01	1.9005e+00
56	TSO000002	55.9000	56.9769	56.3683	2.2683e-01	1.9001e+00
57	TAF020136	103.9277	106.7372	105.2281	6.8950e-01	1.9008e+00
58	EMPTY	42.8139	43.5000	43.1220	2.5377e-01	1.9013e+00
59	TAF130312	210.3760	212.1904	211.0426	4.1442e-01	1.9134e+00
60	EMPTY	3.3105	3.3301	3.3153	4.5116e-03	0.0000e+00
61	EMPTY	3.3008	3.3154	3.3064	3.4527e-03	0.0000e+00
62	EMPTY	3.2910	3.3057	3.2976	2.9146e-03	0.0000e+00
63	EMPTY	3.2910	3.3008	3.2970	3.0339e-03	0.0000e+00
64	EMPTY	1.5918	1.6016	1.5984	2.5510e-03	0.0000e+00
65	EMPTY	1.6064	1.6162	1.6133	2.6216e-03	0.0000e+00
66	EMPTY	1.6211	1.6260	1.6229	2.3783e-03	0.0000e+00
67	EMPTY	1.6309	1.6357	1.6347	1.9883e-03	0.0000e+00
68	EMPTY	1.6406	1.6455	1.6411	1.4934e-03	0.0000e+00
69	EMPTY	1.6504	1.6553	1.6535	2.3783e-03	0.0000e+00
70	EMPTY	1.6602	1.6650	1.6619	2.3783e-03	0.0000e+00
71	EMPTY	1.6748	1.6846	1.6793	1.6787e-03	0.0000e+00
72	EMPTY	1.6846	1.6895	1.6866	2.4247e-03	0.0000e+00
73	EMPTY	1.6992	1.7041	1.7000	1.8234e-03	0.0000e+00
74	EMPTY	1.7090	1.7139	1.7095	1.4934e-03	0.0000e+00
75	EMPTY	1.7188	1.7236	1.7205	2.3783e-03	0.0000e+00
76	EMPTY	1.7236	1.7334	1.7288	1.8400e-03	0.0000e+00
77	EMPTY	1.7383	1.7480	1.7432	9.9670e-04	0.0000e+00
78	EMPTY	1.7578	1.7627	1.7593	2.2737e-03	0.0000e+00
79	EMPTY	1.7725	1.7822	1.7771	1.3951e-03	0.0000e+00
80	PAN020136	-19.4476	8.7812	-4.2900	6.4278e+00	8.7007e-01
81	PAN050136	-25.8235	-9.0388	-16.7772	4.4759e+00	1.6805e+00
82	PAN070136	-20.1955	1.0142	-12.9678	5.6062e+00	8.7060e-01
83	PAN080136	-14.0306	7.5606	-2.0244	5.6085e+00	8.7001e-01
84	PAN090136	-13.3204	2.4724	-7.1827	5.1636e+00	8.7019e-01
85	PAN100136	-12.9347	4.3078	-5.9935	3.7136e+00	8.7013e-01
86	PAN105136	-6.2759	3.4897	-2.3055	2.8859e+00	8.7002e-01
87	PAN110136	-6.6469	11.6636	1.4807	4.5759e+00	8.7001e-01
88	PAN115136	-7.5479	6.4902	-1.7434	3.8785e+00	8.7001e-01
89	PAN120136	-7.0153	0.8430	-4.8511	2.2104e+00	8.7008e-01
90	PAN125136	-6.0353	4.9510	-1.4623	3.1458e+00	8.7001e-01
91	PAN130136	-2.5902	7.7858	1.0548	2.5026e+00	8.7000e-01
92	PAN120048	-9.2946	-0.5208	-4.8913	1.9983e+00	8.7009e-01
93	PAN130048	-8.1252	3.8529	-2.4203	2.3759e+00	8.7002e-01
94	PAN120224	-11.6552	-0.6689	-6.1683	2.0999e+00	8.7014e-01
95	PAN130224	-7.9006	7.2819	-0.9049	2.9140e+00	8.7000e-01
96	PAN120312	-7.3886	-0.2932	-4.1235	1.5347e+00	8.7006e-01
97	PAN130312	-7.3930	-0.5265	-4.1388	1.5033e+00	8.7006e-01
98	PAB000136	39.5576	40.5189	40.0201	2.5950e-01	5.8857e-01
99	PAB100136	41.1536	41.7945	41.5357	1.4552e-01	5.8922e-01
100	PAB125136	41.6844	42.2795	41.9590	1.0695e-01	5.8941e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9381	40.6471	39.8923	4.0995e-01	7.5660e-01
102	PRV000001	19.5572	19.6793	19.6768	1.7439e-02	7.5161e-01
103	PSR000001	41.5674	41.6895	41.6297	6.1655e-02	7.5719e-01
104	PFM000001	12.2310	12.7803	12.4982	1.0871e-01	5.0098e-01
105	PAN000136	-71.1731	-44.6228	-57.9914	8.0256e+00	4.9221e+00
106	PFM000002	12.4025	12.7045	12.5436	6.8325e-02	2.0244e-01
107	EMPTY	-0.0049	0.0098	0.0044	2.2826e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4385	-9.9885	8.0218e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0016	2.3135e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.5012	145.4778	145.0033	2.5837e-01	1.1887e+00
113	VPW000002	168.7350	169.3209	169.0099	1.6398e-01	1.2979e+00
114	VPW000003	208.7252	209.5065	209.0999	1.6359e-01	1.4934e+00
115	VPW000004	148.5427	149.5192	148.9890	2.2902e-01	1.2063e+00
116	VPW000005	197.5060	199.0685	198.1835	3.1920e-01	1.4388e+00
117	VPW000006	207.4069	208.3834	207.8852	1.9556e-01	1.4872e+00
118	IPW000001	768.0219	777.7836	772.7234	2.4862e+00	1.0143e+01
119	IPW000002	1822.2231	1839.7845	1832.2188	3.0499e+00	1.6587e+01
120	IPW000003	1849.6501	1859.4001	1853.9479	1.8661e+00	1.6737e+01
121	IPW000004	535.4943	540.8654	538.1548	1.1012e+00	4.6984e+00
122	IPW000005	356.3909	360.2967	357.9053	7.7354e-01	3.4633e+00
123	IPW000006	372.9999	375.4413	374.2655	5.0742e-01	3.5696e+00
124	EMPTY	-0.0244	-0.0146	-0.0214	2.7865e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0140	3.4527e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0168	3.7375e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.4527e-03	0.0000e+00
128	IHT000001	183.7665	186.8915	185.3570	6.8010e-01	4.4995e+00
129	IHT000002	183.3609	186.2905	184.6563	6.2109e-01	4.4966e+00
130	IHT000003	183.0228	185.5619	184.3542	6.1204e-01	4.4954e+00
131	IHT000004	185.3403	188.0746	186.6756	6.3081e-01	4.5050e+00
132	IHT000005	183.3158	185.4642	184.2406	6.0957e-01	4.4949e+00
133	IHT000006	178.6846	180.8331	179.7409	6.0452e-01	4.4767e+00
134	IHT000007	186.4370	188.5855	187.6129	5.5169e-01	4.5089e+00
135	IHT000008	184.8933	187.2371	186.0653	5.6663e-01	4.5024e+00
136	IHT000009	183.5975	185.9413	184.9647	6.1892e-01	4.4979e+00
137	IHT000010	184.1872	186.9216	185.5065	5.6174e-01	4.5001e+00
138	IHT000011	185.4980	188.0371	186.7695	5.7791e-01	4.5054e+00
139	IHT000012	183.6989	186.4333	185.1737	5.9007e-01	4.4988e+00
140	IHT000013	130.4838	133.2181	131.9188	5.8939e-01	4.3070e+00
141	IHT000014	180.5476	183.4773	181.9189	6.0396e-01	4.4855e+00
142	IHT000015	133.5712	136.1103	134.8986	5.5096e-01	4.3162e+00
143	IHT000016	125.1840	127.5278	126.5074	5.0155e-01	4.2907e+00
144	IHT000017	149.3727	152.6931	150.9551	7.0786e-01	4.3691e+00
145	IHT000018	151.6714	154.4058	152.9150	5.5914e-01	4.3759e+00
146	IHT000019	152.7381	155.2772	153.8901	5.3376e-01	4.3793e+00
147	IHT000020	150.5371	152.8808	151.6452	5.2949e-01	4.3715e+00
148	IHT000021	-3.4180	0.0976	-1.7160	6.9168e-01	4.1000e+00
149	IHT000022	130.4612	132.8050	131.5016	5.4283e-01	4.3057e+00
150	IHT000023	148.7493	150.8977	149.7536	5.2286e-01	4.3649e+00
151	IHT000024	113.4127	115.7565	114.3694	5.3227e-01	4.2565e+00
152	IHT000025	146.2628	148.6065	147.6020	4.6834e-01	4.3576e+00
153	IHT000026	149.0347	151.7691	150.5733	4.9896e-01	4.3677e+00
154	IHT000027	126.7278	130.0481	128.5772	5.3206e-01	4.2969e+00
155	IHT000028	127.7269	130.4612	129.0423	7.1627e-01	4.2983e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.7258	152.2649	150.9414	7.1902e-01	4.3690e+00
157	IHT000030	152.9935	155.5326	154.2292	6.7821e-01	4.3805e+00
158	IHT000031	149.7183	152.0620	150.8782	6.5073e-01	4.3688e+00
159	IHT000032	150.7587	153.4931	152.1379	7.0014e-01	4.3732e+00
160	IHT000033	150.7437	153.2828	152.0590	6.8100e-01	4.3729e+00
161	IHT000034	132.5308	135.2652	133.8980	6.2911e-01	4.3131e+00
162	IHT000035	174.7146	177.4489	176.0737	6.1758e-01	4.4621e+00
163	IHT000036	130.8519	133.7815	132.3666	6.4351e-01	4.3084e+00

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Velocity 1 = 0.009100 (ft/sec)

Velocity 2 = 0.025900 (ft/sec)

Pressure Drop = 0.029500 (psi)

Tsat in = 0.036713 (deg F) Tsat out = 0.000000 (deg F)

Phi inner = 0.188995 (kBtu/hr-ft2) Phi outer = 0.000793 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1791	0.2186
1	TRF000002	0.1391	0.1689
2	TFM000001	0.2040	0.2383
3	TIN000001	0.1669	0.1946
4	TRV000001	0.2154	0.2472
5	TSR000001	3.0693	1.6899
6	EMPTY	0.0223	0.0579
7	TAO050136	0.0119	0.0059
8	TAO070136	0.5439	0.2616
9	TAO080136	0.1487	0.0694
10	TAO090136	1.8189	0.8144
11	TAO100136	0.0324	0.0144
12	TAO105136	0.0589	0.0260
13	EMPTY	9.8298	62.9345
14	TAO115136	0.5788	0.2402
15	EMPTY	0.6474	1.6893
16	TAO125136	0.1461	0.0583
17	EMPTY	0.1018	0.2244
18	EMPTY	0.0002	0.0005
19	TAO130048	0.5552	0.2296
20	TAO120224	0.0499	0.0211
21	EMPTY	0.0180	0.0457
22	TAO120312	0.0820	0.0320
23	TAO130312	0.2304	0.0929
24	EMPTY	0.0079	0.0200
25	TRT070000	0.2060	0.1026
26	TRT100000	0.1596	0.0652
27	TRT120000	0.1648	0.0658
28	TRT125000	0.1326	0.0515
29	EMPTY	0.0490	0.1219
30	EMPTY	0.0415	0.1043
31	TAF050136	0.1352	0.1028
32	TAF070136	0.1383	0.0945
33	TAF080136	0.2216	0.1450
34	TAF090136	0.2074	0.1308
35	TAF100136	0.1346	0.0804
36	TAF105136	0.0076	0.0044
37	TAF110136	0.2300	0.1281
38	TAF115136	0.1568	0.0855
39	TAF120136	0.0859	0.0457
40	TAF125136	0.2662	0.1387
41	TAF130136	0.0097	0.0050
42	TAF120048	0.2710	0.1392
43	TAF130048	0.2561	0.1270
44	TAF120224	0.1360	0.0730
45	TAF130224	0.2077	0.1077

#	Name	Abs Diff	%Diff
46	EMPTY	0.0418	0.1093
47	EMPTY	0.0548	0.1373
48	TAI130048	4.3399	5.2527
49	TAI130136	0.2744	0.1076
50	TAI130224	4.0294	2.5285
51	TAI130312	3.3673	1.5087
52	TRR130000	3.8343	2.5718
53	TSI000001	0.2753	0.6261
54	TSI000002	1.4565	1.3571
55	TSO000001	0.1068	0.2557
56	TSO000002	0.0895	0.1585
57	TAF020136	0.0189	0.0180
58	EMPTY	0.0624	0.1445
59	TAF130312	0.0196	0.0093
60	EMPTY	0.0033	0.0994
61	EMPTY	0.0037	0.1118
62	EMPTY	0.0042	0.1272
63	EMPTY	0.0032	0.0970
64	EMPTY	0.0021	0.1312
65	EMPTY	0.0013	0.0805
66	EMPTY	0.0005	0.0308
67	EMPTY	0.0011	0.0672
68	EMPTY	0.0014	0.0852
69	EMPTY	0.0009	0.0544
70	EMPTY	0.0018	0.1082
71	EMPTY	0.0008	0.0476
72	EMPTY	0.0011	0.0652
73	EMPTY	0.0001	0.0059
74	EMPTY	0.0003	0.0175
75	EMPTY	0.0002	0.0116
76	EMPTY	0.0003	0.0173
77	EMPTY	0.0002	0.0115
78	EMPTY	0.0002	0.0114
79	EMPTY	0.0002	0.0113
80	PAN020136	1.9359	31.0943
81	PAN050136	1.6196	10.6851
82	PAN070136	1.0525	7.5070
83	PAN080136	0.1562	7.1632
84	PAN090136	2.5003	53.3978
85	PAN100136	0.7140	10.6448
86	PAN105136	1.6479	250.5931
87	PAN110136	3.3349	179.8565
88	PAN115136	1.1703	204.2052
89	PAN120136	1.5360	46.3334
90	PAN125136	0.2792	16.0322
91	PAN130136	0.0638	6.4379
92	PAN120048	1.5804	24.4202
93	PAN130048	0.0470	1.9049
94	PAN120224	1.0408	20.2984
95	PAN130224	0.0194	2.0989
96	PAN120312	0.5841	12.4076
97	PAN130312	0.4415	11.9412
98	PAB000136	0.0246	0.0614
99	PAB100136	0.0564	0.1356
100	PAB125136	0.0000	0.0000

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0069	0.0173
102	PRV000001	0.4004	1.9943
103	PSR000001	0.0403	0.0967
104	PFM000001	0.0258	0.2060
105	PAN000136	0.8167	1.4284
106	PFM000002	0.0734	0.5818
107	EMPTY	0.0002	4.7619
108	EMPTY	0.0115	0.1150
109	EMPTY	0.0003	23.0769
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.2048	0.1410
113	VPW000002	0.0336	0.0199
114	VPW000003	0.1214	0.0580
115	VPW000004	0.2059	0.1380
116	VPW000005	0.1076	0.0543
117	VPW000006	0.0803	0.0386
118	IPW000001	9.0818	1.1616
119	IPW000002	9.5266	0.5227
120	IPW000003	2.6600	0.1437
121	IPW000004	0.1421	0.0264
122	IPW000005	0.5088	0.1424
123	IPW000006	0.6698	0.1793
124	EMPTY	0.0011	5.4187
125	EMPTY	0.0007	4.7619
126	EMPTY	0.0000	0.0000
127	EMPTY	0.0008	4.7619
128	IHT000001	0.0424	0.0229
129	IHT000002	0.0015	0.0008
130	IHT000003	0.0671	0.0364
131	IHT000004	0.0748	0.0401
132	IHT000005	0.0909	0.0493
133	IHT000006	0.0921	0.0512
134	IHT000007	0.0976	0.0520
135	IHT000008	0.0586	0.0315
136	IHT000009	0.0665	0.0359
137	IHT000010	0.0596	0.0321
138	IHT000011	0.0723	0.0387
139	IHT000012	0.1189	0.0642
140	IHT000013	0.1119	0.0848
141	IHT000014	0.0351	0.0193
142	IHT000015	0.0867	0.0642
143	IHT000016	0.1571	0.1240
144	IHT000017	0.3480	0.2311
145	IHT000018	0.1498	0.0981
146	IHT000019	0.2739	0.1777
147	IHT000020	0.2239	0.1474
148	IHT000021	0.3097	22.0223
149	IHT000022	0.4245	0.3218
150	IHT000023	0.2534	0.1689
151	IHT000024	0.2191	0.1912
152	IHT000025	0.2193	0.1484
153	IHT000026	0.0942	0.0625
154	IHT000027	0.2442	0.1896
155	IHT000028	0.0713	0.0552

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1376	0.0912
157	IHT000030	0.1536	0.0997
158	IHT000031	0.1599	0.1061
159	IHT000032	0.0862	0.0567
160	IHT000033	0.0966	0.0636
161	IHT000034	0.0468	0.0349
162	IHT000035	0.0155	0.0088
163	IHT000036	0.0244	0.0184

Velocity 1 = 8.0400 (ft/sec) (+/- 4.2853 %)
Velocity 2 = 8.0619 (ft/sec) (+/- 3.5857 %)
Pressure drop = -2.6114 (psi)
Tsats in = 267.6026 (deg F) Tsats out = 271.0027 (deg F)
Phi inner = 200.0507 (kBtu/hr-ft2) (+/- 1.4542 %)
Phi outer = 201.8917 (kBtu/hr-ft2) (+/- 1.3482 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.0168	82.4395	82.2619	1.6182e-01	1.9001e+00
1	TRF000002	82.5029	82.9235	82.7216	1.1986e-01	1.9001e+00
2	TFM000001	84.2473	85.0877	84.5921	1.9676e-01	1.9001e+00
3	TIN000001	84.3061	84.9381	84.6347	1.5284e-01	1.9001e+00
4	TRV000001	86.0228	86.7570	86.3879	1.7490e-01	1.9002e+00
5	TSR000001	187.9393	190.5540	189.3884	7.1105e-01	1.9096e+00
6	EMPTY	37.9974	38.9168	38.4939	2.2441e-01	1.9010e+00
7	TAO050136	211.1535	212.0126	211.7415	1.5595e-01	1.9135e+00
8	TAO070136	215.2650	223.6846	217.4844	1.6386e+00	1.9146e+00
9	TAO080136	224.0321	224.9772	224.4671	2.9418e-01	1.9160e+00
10	TAO090136	230.0049	235.5642	232.8339	1.2836e+00	1.9178e+00
11	TAO100136	237.1381	238.9247	238.0974	3.7036e-01	1.9189e+00
12	TAO105136	238.3627	240.0549	239.3633	3.1194e-01	1.9192e+00
13	EMPTY	6.6730	14.2480	10.3147	1.8965e+00	1.9001e+00
14	TAO115136	253.4190	254.7289	254.1751	3.4475e-01	1.9227e+00
15	EMPTY	32.9252	43.0426	39.1430	2.5637e+00	1.9010e+00
16	TAO125136	266.8813	268.2621	267.5815	3.0498e-01	1.9261e+00
17	EMPTY	44.8706	45.5552	45.3133	1.9779e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6968	1.0989e-01	1.9012e+00
19	TAO130048	257.2404	258.1680	257.7451	2.0176e-01	1.9236e+00
20	TAO120224	250.8521	252.6251	251.6588	3.5911e-01	1.9221e+00
21	EMPTY	39.3761	39.8352	39.5506	1.1879e-01	1.9011e+00
22	TAO120312	272.2924	273.4920	272.7725	2.6034e-01	1.9275e+00
23	TAO130312	263.6959	264.5285	264.2066	1.6737e-01	1.9252e+00
24	EMPTY	39.1464	39.8352	39.4863	2.0867e-01	1.9011e+00
25	TRT070000	207.5684	213.4533	210.8620	1.2901e+00	1.9133e+00
26	TRT100000	258.7937	259.8144	259.2504	2.2635e-01	1.9240e+00
27	TRT120000	266.4430	267.1827	266.7831	1.7661e-01	1.9259e+00
28	TRT125000	272.9931	273.7281	273.3205	1.9715e-01	1.9276e+00
29	EMPTY	40.0646	40.5234	40.1885	1.3279e-01	1.9011e+00
30	EMPTY	39.6057	40.0646	39.8306	1.8248e-01	1.9011e+00
31	TAF050136	135.0615	136.6722	135.9595	3.6024e-01	1.9029e+00
32	TAF070136	151.6180	153.7004	152.5702	5.5717e-01	1.9046e+00
33	TAF080136	158.6743	162.1193	160.1467	8.6304e-01	1.9055e+00
34	TAF090136	165.6048	167.8733	166.6115	5.2611e-01	1.9063e+00
35	TAF100136	175.1360	177.7868	176.1417	5.2802e-01	1.9076e+00
36	TAF105136	181.1200	183.7327	182.2621	5.7555e-01	1.9085e+00
37	TAF110136	188.8593	190.7927	189.8143	4.6487e-01	1.9096e+00
38	TAF115136	193.1397	195.0717	194.0365	4.6717e-01	1.9103e+00
39	TAF120136	198.1727	200.2848	199.0724	4.7574e-01	1.9112e+00
40	TAF125136	202.9256	205.3139	203.8085	4.2350e-01	1.9120e+00
41	TAF130136	207.6741	209.6824	208.6194	4.7829e-01	1.9129e+00
42	TAF120048	204.9440	208.0373	206.7194	6.7423e-01	1.9126e+00
43	TAF130048	213.7786	216.4504	214.6839	5.8735e-01	1.9141e+00
44	TAF120224	195.9013	198.3125	197.1134	4.5880e-01	1.9109e+00
45	TAF130224	203.6468	206.3521	205.1237	6.9768e-01	1.9123e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.2227	2.7276e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9362	1.1506e-01	1.9011e+00
48	TAI130048	89.0189	92.3670	90.5724	7.6313e-01	1.9003e+00
49	TAI130136	270.9385	271.5833	271.2371	1.4944e-01	1.9271e+00
50	TAI130224	161.4229	164.1022	162.9714	6.3899e-01	1.9058e+00
51	TAI130312	231.3613	232.9683	231.9362	3.3949e-01	1.9176e+00
52	TRR130000	146.2472	149.2404	148.0876	6.5237e-01	1.9041e+00
53	TSI000001	43.3872	44.2562	43.8262	1.7135e-01	1.9005e+00
54	TSI000002	105.7398	106.9770	106.3498	3.2056e-01	1.9009e+00
55	TSO000001	41.3832	42.2573	41.8246	1.7955e-01	1.9005e+00
56	TSO000002	57.0841	57.8372	57.4929	2.1623e-01	1.9001e+00
57	TAF020136	105.4877	107.7758	106.5161	6.1925e-01	1.9009e+00
58	EMPTY	42.8139	43.5000	43.1615	2.7814e-01	1.9013e+00
59	TAF130312	224.2659	226.6330	225.1376	4.4281e-01	1.9161e+00
60	EMPTY	3.6621	3.6865	3.6690	5.1344e-03	0.0000e+00
61	EMPTY	3.6475	3.6670	3.6567	3.7239e-03	0.0000e+00
62	EMPTY	3.6426	3.6523	3.6457	3.0819e-03	0.0000e+00
63	EMPTY	3.6377	3.6475	3.6426	1.3951e-03	0.0000e+00
64	EMPTY	1.7480	1.7529	1.7524	1.4797e-03	0.0000e+00
65	EMPTY	1.7627	1.7676	1.7642	2.2603e-03	0.0000e+00
66	EMPTY	1.7725	1.7773	1.7727	9.6655e-04	0.0000e+00
67	EMPTY	1.7822	1.7871	1.7830	1.8082e-03	0.0000e+00
68	EMPTY	1.7871	1.7920	1.7912	1.8082e-03	0.0000e+00
69	EMPTY	1.8018	1.8018	1.8018	0.0000e+00	0.0000e+00
70	EMPTY	1.8066	1.8115	1.8090	2.4642e-03	0.0000e+00
71	EMPTY	1.8213	1.8262	1.8259	1.1714e-03	0.0000e+00
72	EMPTY	1.8311	1.8359	1.8312	9.6655e-04	0.0000e+00
73	EMPTY	1.8408	1.8457	1.8447	1.9730e-03	0.0000e+00
74	EMPTY	1.8506	1.8555	1.8513	1.7115e-03	0.0000e+00
75	EMPTY	1.8604	1.8652	1.8632	2.4344e-03	0.0000e+00
76	EMPTY	1.8701	1.8701	1.8701	0.0000e+00	0.0000e+00
77	EMPTY	1.8799	1.8848	1.8843	1.4797e-03	0.0000e+00
78	EMPTY	1.8945	1.8994	1.8993	6.9053e-04	0.0000e+00
79	EMPTY	1.9141	1.9189	1.9158	2.3675e-03	0.0000e+00
80	PAN020136	-20.2105	6.1872	-8.2934	6.0819e+00	8.7025e-01
81	PAN050136	-30.7063	-12.0906	-21.3801	4.7129e+00	1.6809e+00
82	PAN070136	-24.0865	-4.7078	-14.3911	4.5518e+00	8.7074e-01
83	PAN080136	-14.0306	11.6805	-3.3159	5.8451e+00	8.7004e-01
84	PAN090136	-13.3204	3.3879	-6.9438	4.8251e+00	8.7017e-01
85	PAN100136	-12.9347	-0.9565	-9.2573	3.1540e+00	8.7031e-01
86	PAN105136	-6.2759	5.3208	-0.9948	2.8041e+00	8.7000e-01
87	PAN110136	-5.7314	10.6718	0.9550	3.1681e+00	8.7000e-01
88	PAN115136	-7.5479	7.0242	-1.2277	3.2710e+00	8.7001e-01
89	PAN120136	-7.0153	3.4370	-3.5226	2.9791e+00	8.7004e-01
90	PAN125136	-5.1198	9.9102	0.8876	4.1059e+00	8.7000e-01
91	PAN130136	-6.0234	1.1482	-2.2530	1.7623e+00	8.7002e-01
92	PAN120048	-12.4226	0.6999	-4.5460	2.9616e+00	8.7007e-01
93	PAN130048	-7.3623	3.4715	-4.1656	2.4725e+00	8.7006e-01
94	PAN120224	-12.7996	0.8570	-4.6636	3.2776e+00	8.7008e-01
95	PAN130224	-10.0368	7.8922	-2.8316	3.8480e+00	8.7003e-01
96	PAN120312	-6.7019	0.6223	-2.9544	1.7267e+00	8.7003e-01
97	PAN130312	-8.0033	-3.2731	-6.1921	1.0432e+00	8.7014e-01
98	PAB000136	39.7407	40.5647	40.1573	2.3889e-01	5.8862e-01
99	PAB100136	42.0691	42.5269	42.2815	1.1907e-01	5.8955e-01
100	PAB125136	42.3253	42.7372	42.5047	8.5184e-02	5.8965e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3043	40.7692	40.0172	3.6443e-01	7.5664e-01
102	PRV000001	19.9234	20.0455	19.9625	5.7521e-02	7.5166e-01
103	PSR000001	42.4219	42.5440	42.4536	5.4088e-02	7.5747e-01
104	PFM000001	9.7591	10.1253	9.9477	9.5054e-02	5.0062e-01
105	PAN000136	-86.7371	-57.8979	-72.2992	7.6856e+00	4.9233e+00
106	PFM000002	9.8855	10.1372	10.0027	5.4714e-02	2.0156e-01
107	EMPTY	-0.0049	0.0049	0.0035	2.7971e-03	0.0000e+00
108	EMPTY	-10.0000	-9.6484	-9.9928	4.9709e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0014	2.2146e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.6965	145.6731	145.1261	2.2321e-01	1.1893e+00
113	VPW000002	168.9303	169.5162	169.1998	1.2409e-01	1.2987e+00
114	VPW000003	209.1158	209.7018	209.3815	1.2327e-01	1.4948e+00
115	VPW000004	148.9333	149.9099	149.3004	1.9980e-01	1.2077e+00
116	VPW000005	197.8966	199.8498	199.2833	5.7487e-01	1.4442e+00
117	VPW000006	207.7975	208.5787	208.1920	1.8713e-01	1.4888e+00
118	IPW000001	769.9742	775.8313	773.4495	1.6401e+00	1.0146e+01
119	IPW000002	1831.9795	1843.6871	1838.4181	2.7098e+00	1.6630e+01
120	IPW000003	1849.6501	1857.4501	1854.5641	1.7280e+00	1.6741e+01
121	IPW000004	537.9357	540.3771	538.9219	5.7934e-01	4.7038e+00
122	IPW000005	356.8791	360.7849	359.4082	1.0881e+00	3.4730e+00
123	IPW000006	373.9764	375.9296	374.9629	4.2419e-01	3.5742e+00
124	EMPTY	-0.0293	-0.0146	-0.0205	3.9459e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0128	2.7709e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0175	3.8321e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0152	3.0628e-03	0.0000e+00
128	IHT000001	184.1572	186.8915	185.3681	6.2887e-01	4.4996e+00
129	IHT000002	183.5562	185.8999	184.6890	5.7045e-01	4.4968e+00
130	IHT000003	183.2181	185.5619	184.4330	5.5284e-01	4.4957e+00
131	IHT000004	185.3403	188.0746	186.7778	5.7961e-01	4.5054e+00
132	IHT000005	182.9252	185.4642	184.3705	5.5664e-01	4.4955e+00
133	IHT000006	178.2940	181.0284	179.9190	5.7513e-01	4.4774e+00
134	IHT000007	186.2417	189.1714	187.7808	5.4482e-01	4.5096e+00
135	IHT000008	184.8933	187.2371	186.2333	5.0841e-01	4.5031e+00
136	IHT000009	183.7928	186.3319	185.1054	5.2354e-01	4.4985e+00
137	IHT000010	184.1872	186.9216	185.5231	6.3425e-01	4.5002e+00
138	IHT000011	185.4980	188.2324	186.8301	6.0321e-01	4.5056e+00
139	IHT000012	183.6989	186.6286	185.2809	6.1669e-01	4.4992e+00
140	IHT000013	130.8744	133.8041	132.1167	6.2360e-01	4.3076e+00
141	IHT000014	180.5476	184.6492	182.8055	7.9524e-01	4.4891e+00
142	IHT000015	133.7665	136.8915	135.0400	5.9352e-01	4.3167e+00
143	IHT000016	125.5747	128.3090	126.5786	5.8395e-01	4.2909e+00
144	IHT000017	149.1774	151.9118	150.4625	6.3022e-01	4.3674e+00
145	IHT000018	151.2808	154.2105	152.7652	6.3503e-01	4.3754e+00
146	IHT000019	152.3475	154.8866	153.8046	5.5272e-01	4.3790e+00
147	IHT000020	150.1465	152.6855	151.4980	5.4937e-01	4.3709e+00
148	IHT000021	-3.6133	-0.6836	-1.9102	6.3139e-01	4.1000e+00
149	IHT000022	130.0706	132.4144	131.3363	5.3705e-01	4.3052e+00
150	IHT000023	148.5539	150.5071	149.6163	4.6882e-01	4.3645e+00
151	IHT000024	113.0221	115.1705	114.2604	4.4923e-01	4.2562e+00
152	IHT000025	146.2628	148.2159	147.4541	4.5720e-01	4.3571e+00
153	IHT000026	149.6207	151.3785	150.4448	4.3814e-01	4.3673e+00
154	IHT000027	127.5090	129.4621	128.4152	5.0802e-01	4.2964e+00
155	IHT000028	127.7269	130.2659	128.9730	5.7167e-01	4.2981e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.9211	152.4602	150.9288	5.7502e-01	4.3690e+00
157	IHT000030	153.1888	155.9232	154.2357	6.2858e-01	4.3805e+00
158	IHT000031	149.9136	152.8433	150.8862	6.4173e-01	4.3688e+00
159	IHT000032	151.1494	153.8837	152.1885	6.1186e-01	4.3733e+00
160	IHT000033	151.1343	154.0640	152.1421	6.4278e-01	4.3732e+00
161	IHT000034	132.9214	135.4605	134.0464	5.3896e-01	4.3136e+00
162	IHT000035	175.3005	178.8161	176.8707	7.3181e-01	4.4652e+00
163	IHT000036	131.4378	134.1722	132.5589	5.7563e-01	4.3090e+00

Velocity 1 = 8.0335 (ft/sec) (+/- 4.2881 %)
Velocity 2 = 8.0544 (ft/sec) (+/- 3.5862 %)
Pressure drop = -2.6042 (psi)
Tsat in = 267.5361 (deg F) Tsat out = 270.9034 (deg F)
Phi inner = 199.7279 (kBtu/hr-ft2) (+/- 1.4544 %)
Phi outer = 201.1531 (kBtu/hr-ft2) (+/- 1.3491 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.0168	82.6508	82.2712	1.9761e-01	1.9001e+00
1	TRF000002	82.5029	83.1337	82.8076	1.3614e-01	1.9001e+00
2	TFM000001	85.6108	86.3455	85.9665	1.6983e-01	1.9002e+00
3	TIN000001	85.7791	86.4103	86.1032	1.4849e-01	1.9002e+00
4	TRV000001	86.9654	87.9073	87.4310	2.2095e-01	1.9002e+00
5	TSR000001	186.0019	191.2305	189.4591	1.2740e+00	1.9096e+00
6	EMPTY	37.9974	38.9168	38.5228	2.3456e-01	1.9010e+00
7	TAO050136	212.4876	213.4409	212.9857	1.7761e-01	1.9137e+00
8	TAO070136	216.7994	225.6874	218.3170	1.7984e+00	1.9148e+00
9	TAO080136	225.2589	226.2032	225.7522	2.1894e-01	1.9163e+00
10	TAO090136	231.5146	236.9751	234.6213	1.3827e+00	1.9182e+00
11	TAO100136	238.8300	240.3338	239.7333	3.4986e-01	1.9193e+00
12	TAO105136	240.1484	241.8393	241.2583	3.3841e-01	1.9197e+00
13	EMPTY	5.7218	9.7576	8.0489	1.0583e+00	1.9000e+00
14	TAO115136	255.7574	257.1580	256.5771	2.8482e-01	1.9233e+00
15	EMPTY	31.5371	42.3562	38.1158	2.6644e+00	1.9010e+00
16	TAO125136	268.8138	270.1931	269.4894	2.5702e-01	1.9266e+00
17	EMPTY	45.0988	45.7833	45.3363	2.0278e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6974	1.0063e-01	1.9012e+00
19	TAO130048	259.6465	260.4800	260.1226	2.0540e-01	1.9242e+00
20	TAO120224	253.0916	254.7685	254.2761	2.7294e-01	1.9227e+00
21	EMPTY	39.3761	39.8352	39.6244	1.2251e-01	1.9011e+00
22	TAO120312	274.6906	275.6123	275.0762	2.1584e-01	1.9281e+00
23	TAO130312	265.9127	266.7441	266.3497	1.7969e-01	1.9258e+00
24	EMPTY	39.1464	39.8352	39.5260	1.8480e-01	1.9011e+00
25	TRT070000	208.6312	216.1464	212.0227	1.6737e+00	1.9135e+00
26	TRT100000	260.6472	261.7593	261.2166	2.3319e-01	1.9245e+00
27	TRT120000	268.3826	269.3062	268.8182	1.7888e-01	1.9264e+00
28	TRT125000	274.3663	275.4663	275.0786	2.2865e-01	1.9281e+00
29	EMPTY	40.0646	40.5234	40.2098	1.2115e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.8118	2.0552e-01	1.9011e+00
31	TAF050136	136.7720	138.4794	137.6132	4.3355e-01	1.9031e+00
32	TAF070136	152.9090	155.9761	154.3167	5.5788e-01	1.9048e+00
33	TAF080136	160.3470	163.5898	161.7649	7.0133e-01	1.9057e+00
34	TAF090136	167.0844	169.6463	168.3861	5.8394e-01	1.9065e+00
35	TAF100136	176.8052	179.3551	178.0085	4.7736e-01	1.9078e+00
36	TAF105136	183.0544	185.2795	184.0416	4.7787e-01	1.9087e+00
37	TAF110136	190.2131	193.1101	191.5115	6.0646e-01	1.9099e+00
38	TAF115136	194.7821	196.9059	195.7572	5.3805e-01	1.9106e+00
39	TAF120136	199.8045	201.5316	200.6647	4.2898e-01	1.9115e+00
40	TAF125136	204.2630	206.4564	205.5762	3.9953e-01	1.9123e+00
41	TAF130136	209.3001	211.4982	210.2402	4.4033e-01	1.9132e+00
42	TAF120048	207.3614	209.1947	208.2638	3.8478e-01	1.9128e+00
43	TAF130048	215.4010	218.2600	216.3472	5.4332e-01	1.9144e+00
44	TAF120224	197.8310	200.0479	198.7791	4.2800e-01	1.9111e+00
45	TAF130224	205.7732	207.8950	206.6140	5.3215e-01	1.9125e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.9168	38.2883	2.9219e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9897	1.2731e-01	1.9011e+00
48	TAI130048	87.6567	90.2760	89.3032	6.2032e-01	1.9003e+00
49	TAI130136	272.6845	273.5123	273.0749	1.7868e-01	1.9276e+00
50	TAI130224	161.1248	162.5147	161.8484	2.8803e-01	1.9057e+00
51	TAI130312	226.6236	228.2359	227.2125	3.9631e-01	1.9166e+00
52	TRR130000	148.7424	150.2371	149.5834	3.8202e-01	1.9043e+00
53	TSI000001	43.2788	44.2569	43.7578	2.6970e-01	1.9005e+00
54	TSI000002	105.5323	107.3897	106.3265	4.0068e-01	1.9009e+00
55	TSO000001	41.2729	42.1476	41.6411	2.3483e-01	1.9005e+00
56	TSO000002	56.9763	58.0523	57.5758	2.2600e-01	1.9001e+00
57	TAF020136	106.5292	109.5410	108.0278	6.3086e-01	1.9010e+00
58	EMPTY	42.8139	43.5000	43.2200	2.6101e-01	1.9013e+00
59	TAF130312	226.0655	227.9569	227.0783	3.8709e-01	1.9166e+00
60	EMPTY	3.7109	3.7256	3.7183	3.6105e-03	0.0000e+00
61	EMPTY	3.7012	3.7109	3.7060	1.8619e-03	0.0000e+00
62	EMPTY	3.6914	3.7012	3.6959	2.1920e-03	0.0000e+00
63	EMPTY	3.6865	3.7012	3.6921	2.9901e-03	0.0000e+00
64	EMPTY	1.7725	1.7773	1.7733	1.8234e-03	0.0000e+00
65	EMPTY	1.7822	1.7920	1.7871	2.4414e-03	0.0000e+00
66	EMPTY	1.7920	1.7969	1.7953	2.3135e-03	0.0000e+00
67	EMPTY	1.8018	1.8115	1.8053	2.3953e-03	0.0000e+00
68	EMPTY	1.8115	1.8164	1.8122	1.7263e-03	0.0000e+00
69	EMPTY	1.8213	1.8262	1.8227	2.2287e-03	0.0000e+00
70	EMPTY	1.8262	1.8359	1.8314	1.8400e-03	0.0000e+00
71	EMPTY	1.8457	1.8506	1.8478	2.4414e-03	0.0000e+00
72	EMPTY	1.8506	1.8555	1.8539	2.3135e-03	0.0000e+00
73	EMPTY	1.8652	1.8701	1.8664	2.1215e-03	0.0000e+00
74	EMPTY	1.8701	1.8799	1.8745	2.2826e-03	0.0000e+00
75	EMPTY	1.8799	1.8896	1.8858	2.2241e-03	0.0000e+00
76	EMPTY	1.8896	1.8945	1.8926	2.4037e-03	0.0000e+00
77	EMPTY	1.9043	1.9092	1.9065	2.4538e-03	0.0000e+00
78	EMPTY	1.9189	1.9238	1.9214	2.4662e-03	0.0000e+00
79	EMPTY	1.9336	1.9434	1.9386	1.2165e-03	0.0000e+00
80	PAN020136	-20.2868	5.6531	-11.0132	7.5916e+00	8.7044e-01
81	PAN050136	-30.0959	-11.4802	-20.4891	5.2521e+00	1.6808e+00
82	PAN070136	-20.4244	-0.9694	-12.0850	5.0465e+00	8.7052e-01
83	PAN080136	-14.0306	5.8058	-5.4094	5.5022e+00	8.7011e-01
84	PAN090136	-13.1678	4.9901	-4.0048	4.9384e+00	8.7006e-01
85	PAN100136	-13.0109	-4.9238	-10.3142	2.5527e+00	8.7038e-01
86	PAN105136	-6.2759	7.3044	-1.5192	3.1500e+00	8.7001e-01
87	PAN110136	-6.1892	11.5873	2.9209	3.6058e+00	8.7003e-01
88	PAN115136	-7.5479	3.7436	-1.5114	2.9290e+00	8.7001e-01
89	PAN120136	-6.9390	0.9955	-2.4766	1.8787e+00	8.7002e-01
90	PAN125136	-5.9590	7.0110	-1.2646	2.4117e+00	8.7001e-01
91	PAN130136	-7.3204	9.5405	-2.2648	3.2665e+00	8.7002e-01
92	PAN120048	-7.6161	1.2340	-2.9871	1.8339e+00	8.7003e-01
93	PAN130048	-7.9726	-3.4713	-5.4876	1.0412e+00	8.7011e-01
94	PAN120224	-11.5789	1.6962	-3.3392	2.5006e+00	8.7004e-01
95	PAN130224	-10.1131	1.7124	-4.8722	2.6654e+00	8.7009e-01
96	PAN120312	-6.0916	8.0228	-2.3438	3.1244e+00	8.7002e-01
97	PAN130312	-10.7499	-4.2649	-6.9072	1.3968e+00	8.7017e-01
98	PAB000136	39.6949	40.6105	40.1125	2.6571e-01	5.8861e-01
99	PAB100136	41.9318	42.4353	42.2018	1.1453e-01	5.8952e-01
100	PAB125136	42.2795	43.0577	42.4345	1.3274e-01	5.8962e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.1823	40.6471	40.0268	4.1309e-01	7.5665e-01
102	PRV0000001	19.5572	19.6793	19.6643	4.0430e-02	7.5161e-01
103	PSR0000001	42.4219	42.5440	42.4319	3.3770e-02	7.5746e-01
104	PFM0000001	9.7591	10.1253	9.9291	8.3576e-02	5.0062e-01
105	PAN000136	-89.4836	-56.9824	-72.0980	8.4255e+00	4.9233e+00
106	PFM0000002	9.8688	10.0869	9.9814	4.1669e-02	2.0155e-01
107	EMPTY	-0.0049	0.0049	0.0036	2.5944e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0007	1.7263e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	144.8918	145.4778	145.2465	1.2400e-01	1.1898e+00
113	VPW0000002	168.9303	169.3209	169.1335	8.8783e-02	1.2984e+00
114	VPW0000003	209.1158	209.5065	209.2434	1.0204e-01	1.4941e+00
115	VPW0000004	148.9333	149.5192	149.2402	1.2607e-01	1.2074e+00
116	VPW0000005	198.0919	198.6779	198.3111	1.4720e-01	1.4394e+00
117	VPW0000006	207.7975	208.3834	208.0367	1.6566e-01	1.4880e+00
118	IPW0000001	769.9742	775.8313	771.6475	1.4369e+00	1.0138e+01
119	IPW0000002	1830.0282	1833.9308	1832.3772	1.4350e+00	1.6588e+01
120	IPW0000003	1851.6001	1855.5001	1853.2318	1.3408e+00	1.6732e+01
121	IPW0000004	536.9592	538.9123	538.2445	4.6423e-01	4.6990e+00
122	IPW0000005	356.8791	358.3438	357.8456	3.6604e-01	3.4629e+00
123	IPW0000006	373.4882	375.4413	374.1957	3.6021e-01	3.5691e+00
124	EMPTY	-0.0293	-0.0146	-0.0203	3.6413e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	3.2281e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0164	2.9388e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.1390e-03	0.0000e+00
128	IHT0000001	184.1572	186.5009	185.2533	6.4262e-01	4.4991e+00
129	IHT0000002	183.3609	185.7046	184.4690	5.3397e-01	4.4959e+00
130	IHT0000003	183.0228	185.3666	184.1788	5.6359e-01	4.4947e+00
131	IHT0000004	185.1450	187.6840	186.4523	6.1789e-01	4.5040e+00
132	IHT0000005	182.7299	185.2689	184.0971	6.0594e-01	4.4943e+00
133	IHT0000006	178.0987	180.6378	179.5735	6.3296e-01	4.4760e+00
134	IHT0000007	186.0464	188.5855	187.4854	6.5351e-01	4.5083e+00
135	IHT0000008	184.3074	187.2371	185.9338	6.4948e-01	4.5019e+00
136	IHT0000009	183.4022	186.3319	184.8372	6.2854e-01	4.4974e+00
137	IHT0000010	184.1872	186.5309	185.3750	5.3166e-01	4.4996e+00
138	IHT0000011	185.4980	187.6465	186.6579	5.1738e-01	4.5049e+00
139	IHT0000012	184.0896	186.4333	185.1538	5.8330e-01	4.4987e+00
140	IHT0000013	131.0697	133.2181	132.0583	5.0494e-01	4.3074e+00
141	IHT0000014	180.9382	182.8914	181.9348	4.9834e-01	4.4855e+00
142	IHT0000015	133.9619	136.1103	134.9624	5.0055e-01	4.3164e+00
143	IHT0000016	125.7700	127.7231	126.6310	4.8815e-01	4.2911e+00
144	IHT0000017	150.1540	152.8884	151.3537	5.7082e-01	4.3704e+00
145	IHT0000018	151.8667	154.2105	152.9788	5.6411e-01	4.3761e+00
146	IHT0000019	153.1288	155.2772	154.1931	5.7091e-01	4.3804e+00
147	IHT0000020	150.9277	152.8808	151.8804	5.4611e-01	4.3723e+00
148	IHT0000021	-2.6367	0.0976	-1.3254	7.2094e-01	4.1000e+00
149	IHT0000022	130.8519	133.0003	131.9002	5.8416e-01	4.3069e+00
150	IHT0000023	148.9446	151.0930	150.0326	5.6803e-01	4.3659e+00
151	IHT0000024	113.8034	115.9518	114.6364	5.7881e-01	4.2572e+00
152	IHT0000025	146.6534	149.1925	147.9089	6.2531e-01	4.3586e+00
153	IHT0000026	149.4253	151.9644	150.7925	6.2020e-01	4.3685e+00
154	IHT0000027	127.5090	130.0481	128.8004	6.0175e-01	4.2976e+00
155	IHT0000028	128.1175	130.6566	129.2336	6.7068e-01	4.2989e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.9211	152.6555	151.0570	6.3247e-01	4.3694e+00
157	IHT000030	153.1888	155.9232	154.3528	6.7300e-01	4.3809e+00
158	IHT000031	149.5230	152.4527	150.9579	6.9689e-01	4.3691e+00
159	IHT000032	151.1494	153.8837	152.3013	6.1148e-01	4.3737e+00
160	IHT000033	151.1343	153.8687	152.2264	6.2138e-01	4.3735e+00
161	IHT000034	133.1167	135.2652	134.0215	5.0852e-01	4.3135e+00
162	IHT000035	175.1052	177.6442	176.0896	5.7769e-01	4.4621e+00
163	IHT000036	131.4378	133.7815	132.5380	6.0816e-01	4.3089e+00

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Velocity 1 = 0.006500 (ft/sec)

Velocity 2 = 0.007500 (ft/sec)

Pressure Drop = 0.007200 (psi)

Tsat in = 0.066498 (deg F) Tsat out = 0.099274 (deg F)

Phi inner = 0.322900 (kBtu/hr-ft2) Phi outer = 0.738586 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0093	0.0113
1	TRF000002	0.0860	0.1040
2	TFM000001	1.3744	1.6247
3	TIN000001	1.4685	1.7351
4	TRV000001	1.0431	1.2075
5	TSR000001	0.0707	0.0373
6	EMPTY	0.0289	0.0751
7	TAO050136	1.2442	0.5876
8	TAO070136	0.8326	0.3828
9	TAO080136	1.2851	0.5725
10	TAO090136	1.7874	0.7677
11	TAO100136	1.6359	0.6871
12	TAO105136	1.8950	0.7917
13	EMPTY	2.2658	21.9667
14	TAO115136	2.4020	0.9450
15	EMPTY	1.0272	2.6242
16	TAO125136	1.9079	0.7130
17	EMPTY	0.0230	0.0508
18	EMPTY	0.0006	0.0014
19	TAO130048	2.3775	0.9224
20	TAO120224	2.6173	1.0400
21	EMPTY	0.0738	0.1866
22	TAO120312	2.3037	0.8446
23	TAO130312	2.1431	0.8111
24	EMPTY	0.0397	0.1005
25	TRT070000	1.1607	0.5505
26	TRT100000	1.9662	0.7584
27	TRT120000	2.0351	0.7628
28	TRT125000	1.7581	0.6432
29	EMPTY	0.0213	0.0530
30	EMPTY	0.0188	0.0472
31	TAF050136	1.6537	1.2163
32	TAF070136	1.7465	1.1447
33	TAF080136	1.6182	1.0104
34	TAF090136	1.7746	1.0651
35	TAF100136	1.8668	1.0598
36	TAF105136	1.7795	0.9763
37	TAF110136	1.6972	0.8941
38	TAF115136	1.7207	0.8868
39	TAF120136	1.5923	0.7999
40	TAF125136	1.7677	0.8673
41	TAF130136	1.6208	0.7769
42	TAF120048	1.5444	0.7471
43	TAF130048	1.6633	0.7748
44	TAF120224	1.6657	0.8450
45	TAF130224	1.4903	0.7265

#	Name	Abs Diff	%Diff
46	EMPTY	0.0656	0.1716
47	EMPTY	0.0535	0.1340
48	TAI130048	1.2692	1.4013
49	TAI130136	1.8378	0.6776
50	TAI130224	1.1230	0.6891
51	TAI130312	4.7237	2.0366
52	TRR130000	1.4958	1.0101
53	TSI000001	0.0684	0.1561
54	TSI000002	0.0233	0.0219
55	TSO000001	0.1835	0.4387
56	TSO000002	0.0829	0.1442
57	TAF020136	1.5117	1.4192
58	EMPTY	0.0585	0.1355
59	TAF130312	1.9407	0.8620
60	EMPTY	0.0493	1.3437
61	EMPTY	0.0493	1.3482
62	EMPTY	0.0502	1.3770
63	EMPTY	0.0495	1.3589
64	EMPTY	0.0209	1.1927
65	EMPTY	0.0229	1.2980
66	EMPTY	0.0226	1.2749
67	EMPTY	0.0223	1.2507
68	EMPTY	0.0210	1.1724
69	EMPTY	0.0209	1.1600
70	EMPTY	0.0224	1.2383
71	EMPTY	0.0219	1.1994
72	EMPTY	0.0227	1.2396
73	EMPTY	0.0217	1.1763
74	EMPTY	0.0232	1.2532
75	EMPTY	0.0226	1.2130
76	EMPTY	0.0225	1.2031
77	EMPTY	0.0222	1.1782
78	EMPTY	0.0221	1.1636
79	EMPTY	0.0228	1.1901
80	PAN020136	2.7198	32.7948
81	PAN050136	0.8910	4.1674
82	PAN070136	2.3061	16.0245
83	PAN080136	2.0935	63.1352
84	PAN090136	2.9390	42.3255
85	PAN100136	1.0569	11.4169
86	PAN105136	0.5244	52.7141
87	PAN110136	1.9659	205.8534
88	PAN115136	0.2837	23.1082
89	PAN120136	1.0460	29.6940
90	PAN125136	2.1522	242.4741
91	PAN130136	0.0118	0.5237
92	PAN120048	1.5589	34.2917
93	PAN130048	1.3220	31.7361
94	PAN120224	1.3244	28.3987
95	PAN130224	2.0406	72.0653
96	PAN120312	0.6106	20.6675
97	PAN130312	0.7151	11.5486
98	PAB000136	0.0448	0.1116
99	PAB100136	0.0797	0.1885
100	PAB125136	0.0702	0.1652

#	Name	Abs Diff	%Diff
101	PIN000001	0.0096	0.0240
102	PRV000001	0.2982	1.4938
103	PSR000001	0.0217	0.0511
104	PFM000001	0.0186	0.1870
105	PAN000136	0.2012	0.2783
106	PFM000002	0.0213	0.2129
107	EMPTY	0.0001	2.8571
108	EMPTY	0.0072	0.0721
109	EMPTY	0.0007	50.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.1204	0.0830
113	VPW000002	0.0663	0.0392
114	VPW000003	0.1381	0.0660
115	VPW000004	0.0602	0.0403
116	VPW000005	0.9722	0.4878
117	VPW000006	0.1553	0.0746
118	IPW000001	1.8020	0.2330
119	IPW000002	6.0409	0.3286
120	IPW000003	1.3323	0.0718
121	IPW000004	0.6774	0.1257
122	IPW000005	1.5626	0.4348
123	IPW000006	0.7672	0.2046
124	EMPTY	0.0002	0.9756
125	EMPTY	0.0017	13.2813
126	EMPTY	0.0011	6.2857
127	EMPTY	0.0014	9.2105
128	IHT000001	0.1148	0.0619
129	IHT000002	0.2200	0.1191
130	IHT000003	0.2542	0.1378
131	IHT000004	0.3255	0.1743
132	IHT000005	0.2734	0.1483
133	IHT000006	0.3455	0.1920
134	IHT000007	0.2954	0.1573
135	IHT000008	0.2995	0.1608
136	IHT000009	0.2682	0.1449
137	IHT000010	0.1481	0.0798
138	IHT000011	0.1722	0.0922
139	IHT000012	0.1271	0.0686
140	IHT000013	0.0584	0.0442
141	IHT000014	0.8707	0.4763
142	IHT000015	0.0776	0.0575
143	IHT000016	0.0524	0.0414
144	IHT000017	0.8912	0.5923
145	IHT000018	0.2136	0.1398
146	IHT000019	0.3885	0.2526
147	IHT000020	0.3824	0.2524
148	IHT000021	0.5848	30.6146
149	IHT000022	0.5639	0.4294
150	IHT000023	0.4163	0.2782
151	IHT000024	0.3760	0.3291
152	IHT000025	0.4548	0.3084
153	IHT000026	0.3477	0.2311
154	IHT000027	0.3852	0.3000
155	IHT000028	0.2606	0.2020

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1282	0.0849
157	IHT000030	0.1171	0.0759
158	IHT000031	0.0717	0.0475
159	IHT000032	0.1128	0.0741
160	IHT000033	0.0843	0.0554
161	IHT000034	0.0249	0.0186
162	IHT000035	0.7811	0.4416
163	IHT000036	0.0209	0.0158

Velocity 1 = 7.0575 (ft/sec) (+/- 4.7707 %)
 Velocity 2 = 7.0858 (ft/sec) (+/- 3.6625 %)
 Pressure drop = -3.0232 (psi)
 Tsat in = 267.4911 (deg F) Tsat out = 271.4747 (deg F)
 Phi inner = 200.3410 (kBtu/hr-ft2) (+/- 1.4540 %)
 Phi outer = 201.9294 (kBtu/hr-ft2) (+/- 1.3482 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.2281	82.8621	82.5113	1.7400e-01	1.9001e+00
1	TRF000002	82.7132	83.1337	82.9824	1.4738e-01	1.9001e+00
2	TFM000001	85.5066	86.3461	85.9329	1.9702e-01	1.9002e+00
3	TIN000001	85.5687	86.3049	85.8823	1.6246e-01	1.9002e+00
4	TRV000001	86.8618	88.2219	87.3912	3.0513e-01	1.9002e+00
5	TSR000001	180.9494	192.9709	185.5531	3.8152e+00	1.9090e+00
6	EMPTY	37.9974	38.9168	38.4939	2.4726e-01	1.9010e+00
7	TAO050136	223.7770	224.7228	224.2557	2.0982e-01	1.9160e+00
8	TAO070136	228.1628	239.4438	230.7562	2.0855e+00	1.9173e+00
9	TAO080136	237.8457	239.8098	238.4652	4.3384e-01	1.9190e+00
10	TAO090136	240.5425	241.4810	240.9689	2.4363e-01	1.9196e+00
11	TAO100136	255.5644	257.5165	256.7673	3.9770e-01	1.9234e+00
12	TAO105136	257.0641	258.6443	258.1108	3.5563e-01	1.9237e+00
13	EMPTY	18.0130	20.5928	18.9518	5.1693e-01	1.9002e+00
14	TAO115136	273.6085	275.1790	274.4343	3.9104e-01	1.9279e+00
15	EMPTY	31.5371	43.0426	38.4061	3.1520e+00	1.9010e+00
16	TAO125136	288.4710	289.4732	289.1031	2.2248e-01	1.9321e+00
17	EMPTY	45.0988	45.7833	45.3590	1.7253e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6693	1.0347e-01	1.9012e+00
19	TAO130048	279.8678	280.6917	280.2583	1.7037e-01	1.9296e+00
20	TAO120224	272.9243	273.9381	273.5936	2.1292e-01	1.9277e+00
21	EMPTY	39.6057	39.8352	39.7480	1.1254e-01	1.9011e+00
22	TAO120312	294.2168	295.3111	294.8390	2.4414e-01	1.9338e+00
23	TAO130312	286.8267	287.5573	287.1430	1.7610e-01	1.9315e+00
24	EMPTY	39.1464	39.8352	39.5873	1.9032e-01	1.9011e+00
25	TRT070000	216.7227	222.2872	219.1674	1.5030e+00	1.9149e+00
26	TRT100000	278.7078	279.7158	279.2262	2.4820e-01	1.9293e+00
27	TRT120000	287.3922	288.3057	287.8763	2.0070e-01	1.9317e+00
28	TRT125000	291.3022	292.2113	291.7330	1.8058e-01	1.9328e+00
29	EMPTY	39.8352	40.5234	40.1977	1.3973e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.8306	2.2472e-01	1.9011e+00
31	TAF050136	143.5916	145.3922	144.4102	5.0288e-01	1.9037e+00
32	TAF070136	161.8029	164.7527	163.0470	6.9024e-01	1.9058e+00
33	TAF080136	170.1561	173.4742	171.6605	8.5538e-01	1.9069e+00
34	TAF090136	177.9862	180.3320	179.1893	5.5722e-01	1.9080e+00
35	TAF100136	188.7290	190.8690	189.9375	4.7487e-01	1.9097e+00
36	TAF105136	195.7622	197.9659	196.8031	5.7008e-01	1.9108e+00
37	TAF110136	203.9658	208.2680	205.8045	1.0534e+00	1.9124e+00
38	TAF115136	209.2904	211.4891	210.1648	4.8158e-01	1.9132e+00
39	TAF120136	214.6935	216.4036	215.3878	3.7714e-01	1.9142e+00
40	TAF125136	220.5978	222.0139	221.3107	3.7367e-01	1.9154e+00
41	TAF130136	225.6535	227.1665	226.3590	3.8446e-01	1.9164e+00
42	TAF120048	223.2201	225.4184	224.2396	4.5415e-01	1.9160e+00
43	TAF130048	232.5709	234.1745	233.3051	4.4655e-01	1.9179e+00
44	TAF120224	212.0332	214.1334	212.9671	4.0044e-01	1.9137e+00
45	TAF130224	220.8578	223.0543	221.7197	4.2039e-01	1.9154e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1767	2.6393e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0325	1.4666e-01	1.9011e+00
48	TAI130048	71.8251	74.6895	73.7802	5.2243e-01	1.9000e+00
49	TAI130136	290.9600	291.7787	291.3293	1.8610e-01	1.9327e+00
50	TAI130224	168.5561	169.6418	169.1424	2.1704e-01	1.9066e+00
51	TAI130312	243.9880	245.1134	244.5825	2.8216e-01	1.9204e+00
52	TRR130000	154.5096	155.7997	154.9608	2.8294e-01	1.9049e+00
53	TSI000001	43.6050	44.3654	44.0679	1.8206e-01	1.9005e+00
54	TSI000002	112.9405	114.9898	114.2011	4.5280e-01	1.9013e+00
55	TSO000001	41.1631	42.1476	41.6898	2.0221e-01	1.9005e+00
56	TSO000002	58.6969	59.5561	59.1242	2.0413e-01	1.9001e+00
57	TAF020136	109.0201	112.2331	110.6239	7.3992e-01	1.9011e+00
58	EMPTY	42.5851	43.5000	43.0700	2.3397e-01	1.9012e+00
59	TAF130312	245.4344	246.8363	246.0495	3.5615e-01	1.9208e+00
60	EMPTY	4.1895	4.2090	4.1990	4.4072e-03	0.0000e+00
61	EMPTY	4.1797	4.1895	4.1815	2.5894e-03	0.0000e+00
62	EMPTY	4.1650	4.1748	4.1673	2.6488e-03	0.0000e+00
63	EMPTY	4.1553	4.1650	4.1606	1.7784e-03	0.0000e+00
64	EMPTY	1.9775	1.9824	1.9818	1.6028e-03	0.0000e+00
65	EMPTY	1.9922	1.9971	1.9924	9.6655e-04	0.0000e+00
66	EMPTY	1.9971	2.0020	2.0005	2.2603e-03	0.0000e+00
67	EMPTY	2.0068	2.0117	2.0097	2.4344e-03	0.0000e+00
68	EMPTY	2.0117	2.0166	2.0146	2.4344e-03	0.0000e+00
69	EMPTY	2.0215	2.0264	2.0242	2.4484e-03	0.0000e+00
70	EMPTY	2.0264	2.0313	2.0311	9.6655e-04	0.0000e+00
71	EMPTY	2.0410	2.0459	2.0458	6.9053e-04	0.0000e+00
72	EMPTY	2.0459	2.0557	2.0508	1.3951e-03	0.0000e+00
73	EMPTY	2.0605	2.0654	2.0623	2.3675e-03	0.0000e+00
74	EMPTY	2.0654	2.0703	2.0698	1.4797e-03	0.0000e+00
75	EMPTY	2.0752	2.0801	2.0784	2.3365e-03	0.0000e+00
76	EMPTY	2.0850	2.0850	2.0850	0.0000e+00	0.0000e+00
77	EMPTY	2.0947	2.0996	2.0951	1.3381e-03	0.0000e+00
78	EMPTY	2.1094	2.1143	2.1100	1.6028e-03	0.0000e+00
79	EMPTY	2.1240	2.1289	2.1262	2.4484e-03	0.0000e+00
80	PAN020136	-20.3631	-3.1970	-12.6300	5.0769e+00	8.7057e-01
81	PAN050136	-33.1477	-14.5320	-23.7147	4.9252e+00	1.6810e+00
82	PAN070136	-21.8740	-6.7678	-16.4281	3.2642e+00	8.7097e-01
83	PAN080136	-14.0306	8.7050	-4.8601	4.8345e+00	8.7008e-01
84	PAN090136	-13.3204	2.6250	-8.6345	3.9511e+00	8.7027e-01
85	PAN100136	-12.9347	0.0353	-7.3606	3.4423e+00	8.7019e-01
86	PAN105136	-6.3522	6.2363	-0.8712	3.5296e+00	8.7000e-01
87	PAN110136	-5.9603	11.5110	1.1610	4.0840e+00	8.7000e-01
88	PAN115136	-4.3436	4.3539	0.5789	2.1375e+00	8.7000e-01
89	PAN120136	-6.9390	0.3852	-3.0511	1.7825e+00	8.7003e-01
90	PAN125136	-6.1116	1.5941	-2.6173	2.0481e+00	8.7002e-01
91	PAN130136	-6.8627	1.4534	-3.3638	1.9956e+00	8.7004e-01
92	PAN120048	-7.3109	-1.9704	-4.3492	1.2260e+00	8.7007e-01
93	PAN130048	-8.5067	-1.7165	-6.3003	1.4699e+00	8.7014e-01
94	PAN120224	-8.3746	5.0532	-4.7094	2.5326e+00	8.7008e-01
95	PAN130224	-7.9769	-3.2467	-5.5416	1.1573e+00	8.7011e-01
96	PAN120312	-11.2795	-3.7264	-6.5081	1.4845e+00	8.7015e-01
97	PAN130312	-6.6300	-1.4421	-4.8478	1.0742e+00	8.7008e-01
98	PAB000136	39.6949	40.5189	40.0822	2.5432e-01	5.8859e-01
99	PAB100136	42.3895	42.9846	42.5928	1.5031e-01	5.8969e-01
100	PAB125136	42.7372	43.1035	42.8398	7.8778e-02	5.8981e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.3043	40.6471	39.9879	3.7075e-01	7.5663e-01
102	PRV0000001	19.6793	19.8013	19.7183	5.7521e-02	7.5162e-01
103	PSR0000001	42.9102	43.0323	43.0249	2.9284e-02	7.5767e-01
104	PFM0000001	7.4703	7.8365	7.6387	8.9397e-02	5.0036e-01
105	PAN000136	-95.4346	-70.2576	-83.6975	7.5845e+00	4.9244e+00
106	PFM0000002	7.5531	7.8384	7.7008	5.8127e-02	2.0092e-01
107	EMPTY	-0.0049	0.0049	0.0025	3.7226e-03	0.0000e+00
108	EMPTY	-10.0000	-9.7705	-9.9904	4.2026e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0019	2.3941e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	145.0872	145.6731	145.3214	1.1161e-01	1.1901e+00
113	VPW0000002	169.1256	169.5162	169.3208	1.0440e-01	1.2993e+00
114	VPW0000003	209.3112	209.7018	209.4440	1.0014e-01	1.4951e+00
115	VPW0000004	149.1286	149.5192	149.3043	9.8648e-02	1.2077e+00
116	VPW0000005	198.2873	199.0685	198.6427	2.4225e-01	1.4410e+00
117	VPW0000006	208.1881	208.5787	208.3405	1.2658e-01	1.4895e+00
118	IPW0000001	766.0696	777.7836	773.8007	2.7030e+00	1.0148e+01
119	IPW0000002	1833.9308	1847.5897	1842.2432	3.1980e+00	1.6656e+01
120	IPW0000003	1851.6001	1863.3000	1857.9181	3.8511e+00	1.6764e+01
121	IPW0000004	533.0529	537.4474	536.2852	9.1954e-01	4.6850e+00
122	IPW0000005	356.8791	358.8320	357.6797	5.1970e-01	3.4619e+00
123	IPW0000006	372.9999	374.9530	374.0156	4.6101e-01	3.5680e+00
124	EMPTY	-0.0293	-0.0146	-0.0207	4.0144e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0136	3.3146e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0167	3.5691e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0159	2.7568e-03	0.0000e+00
128	IHT0000001	183.7665	186.6962	185.1142	6.6644e-01	4.4985e+00
129	IHT0000002	183.3609	185.8999	184.4000	6.0418e-01	4.4956e+00
130	IHT0000003	183.0228	185.5619	184.1479	6.0045e-01	4.4946e+00
131	IHT0000004	185.3403	187.8793	186.4731	5.8793e-01	4.5041e+00
132	IHT0000005	182.7299	185.6595	184.0658	6.1176e-01	4.4942e+00
133	IHT0000006	178.6846	181.2237	179.5908	6.1733e-01	4.4761e+00
134	IHT0000007	186.4370	188.7808	187.5269	5.6647e-01	4.5085e+00
135	IHT0000008	184.6980	187.2371	185.9716	6.1793e-01	4.5021e+00
136	IHT0000009	183.5975	186.1366	184.8358	5.6443e-01	4.4974e+00
137	IHT0000010	184.1872	186.3356	185.3004	5.2830e-01	4.4993e+00
138	IHT0000011	185.6933	187.6465	186.6504	5.2682e-01	4.5049e+00
139	IHT0000012	184.0896	185.8474	185.0544	5.1359e-01	4.4983e+00
140	IHT0000013	130.8744	133.0228	131.9565	4.8038e-01	4.3071e+00
141	IHT0000014	180.7429	183.2820	182.0165	5.1636e-01	4.4859e+00
142	IHT0000015	133.9619	136.1103	134.8721	4.4400e-01	4.3161e+00
143	IHT0000016	125.7700	127.9184	126.5552	4.4554e-01	4.2909e+00
144	IHT0000017	149.5681	151.7165	150.7164	4.8108e-01	4.3682e+00
145	IHT0000018	151.8667	154.2105	152.9370	5.4852e-01	4.3760e+00
146	IHT0000019	152.9334	155.0819	153.9530	5.5284e-01	4.3795e+00
147	IHT0000020	150.3418	152.6855	151.6308	6.1257e-01	4.3714e+00
148	IHT0000021	-3.2227	-0.4883	-1.6836	6.7502e-01	4.1000e+00
149	IHT0000022	130.2659	132.4144	131.5238	5.4841e-01	4.3058e+00
150	IHT0000023	148.5539	150.8977	149.7843	5.2977e-01	4.3650e+00
151	IHT0000024	113.2174	115.1705	114.3659	4.9385e-01	4.2565e+00
152	IHT0000025	146.4581	148.8018	147.6416	5.2706e-01	4.3577e+00
153	IHT0000026	149.6207	151.7691	150.5698	5.0994e-01	4.3677e+00
154	IHT0000027	127.5090	129.8528	128.5597	5.4660e-01	4.2968e+00
155	IHT0000028	127.5316	130.2659	129.0160	6.1002e-01	4.2982e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.5305	152.2649	150.9562	6.4627e-01	4.3691e+00
157	IHT000030	152.7982	155.5326	154.2748	6.4133e-01	4.3806e+00
158	IHT000031	149.5230	152.0620	150.9097	5.8427e-01	4.3689e+00
159	IHT000032	150.7587	153.2978	152.2353	5.4841e-01	4.3735e+00
160	IHT000033	150.7437	153.2828	152.1773	5.4905e-01	4.3733e+00
161	IHT000034	132.7261	135.0699	133.9566	4.7062e-01	4.3133e+00
162	IHT000035	174.7146	177.0583	176.2457	4.9025e-01	4.4628e+00
163	IHT000036	131.4378	133.5862	132.4730	4.3807e-01	4.3087e+00

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Velocity 1 = 7.0620 (ft/sec) (+/- 4.7680 %)
Velocity 2 = 7.0856 (ft/sec) (+/- 3.6626 %)
Pressure drop = -3.0017 (psi)
Tsats in = 267.7718 (deg F) Tsats out = 271.6218 (deg F)
Phi inner = 200.6487 (kBtu/hr-ft2) (+/- 1.4538 %)
Phi outer = 200.7961 (kBtu/hr-ft2) (+/- 1.3495 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.4395	82.8621	82.6422	1.6114e-01	1.9001e+00
1	TRF000002	82.7132	83.3439	83.1037	1.4231e-01	1.9001e+00
2	TFM000001	86.1361	86.8705	86.4701	1.6400e-01	1.9002e+00
3	TIN000001	86.0947	87.0407	86.5516	1.6133e-01	1.9002e+00
4	TRV000001	87.4894	88.3270	87.9722	1.7582e-01	1.9002e+00
5	TSR000001	187.7478	192.8737	190.0037	1.1433e+00	1.9097e+00
6	EMPTY	37.7675	38.9168	38.5135	2.4166e-01	1.9010e+00
7	TAO050136	224.5329	225.3851	224.9119	1.9790e-01	1.9161e+00
8	TAO070136	228.8273	239.0659	231.5558	2.6951e+00	1.9175e+00
9	TAO080136	237.9396	242.6104	239.1463	7.6428e-01	1.9192e+00
10	TAO090136	242.8861	243.8228	243.2950	2.0206e-01	1.9201e+00
11	TAO100136	256.4012	257.8884	257.2206	3.4811e-01	1.9235e+00
12	TAO105136	257.9006	260.1301	259.2924	4.1510e-01	1.9240e+00
13	EMPTY	13.7763	24.3327	18.7826	3.5567e+00	1.9002e+00
14	TAO115136	274.4400	275.5485	274.9565	2.9147e-01	1.9281e+00
15	EMPTY	32.4627	43.0426	37.7923	2.5376e+00	1.9010e+00
16	TAO125136	289.3811	290.5640	289.9343	2.7840e-01	1.9323e+00
17	EMPTY	44.8706	45.7833	45.3270	1.9759e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6974	1.1096e-01	1.9012e+00
19	TAO130048	280.7824	281.6045	281.1690	1.5867e-01	1.9298e+00
20	TAO120224	272.5562	273.6621	273.1805	2.6353e-01	1.9276e+00
21	EMPTY	39.6057	40.0646	39.7603	1.2734e-01	1.9011e+00
22	TAO120312	295.1284	296.1313	295.7332	2.4088e-01	1.9340e+00
23	TAO130312	287.5567	288.5603	287.9721	2.0908e-01	1.9317e+00
24	EMPTY	39.1464	39.8352	39.6150	1.7508e-01	1.9011e+00
25	TRT070000	216.7227	223.2428	219.1241	1.8017e+00	1.9149e+00
26	TRT100000	279.6236	280.3570	279.9382	1.9166e-01	1.9295e+00
27	TRT120000	288.0314	288.9443	288.3299	2.0054e-01	1.9318e+00
28	TRT125000	292.1185	293.2975	292.4876	2.2945e-01	1.9331e+00
29	EMPTY	40.0646	40.2940	40.1817	1.1587e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7790	2.0704e-01	1.9011e+00
31	TAF050136	143.7921	146.3907	145.1005	4.9600e-01	1.9038e+00
32	TAF070136	162.6866	165.9328	164.0949	7.3447e-01	1.9060e+00
33	TAF080136	171.2281	174.0606	172.3933	7.1063e-01	1.9071e+00
34	TAF090136	178.7690	181.5047	179.9559	6.0786e-01	1.9081e+00
35	TAF100136	189.7989	191.5491	190.6427	4.0782e-01	1.9098e+00
36	TAF105136	196.4337	198.7327	197.4938	4.9980e-01	1.9109e+00
37	TAF110136	204.6365	208.2675	206.3187	9.8505e-01	1.9125e+00
38	TAF115136	209.7695	211.6806	210.8888	4.8833e-01	1.9133e+00
39	TAF120136	215.5500	217.3514	216.3265	3.3913e-01	1.9144e+00
40	TAF125136	221.4491	223.2422	222.0812	3.9826e-01	1.9155e+00
41	TAF130136	226.5043	228.0172	227.2185	3.8679e-01	1.9166e+00
42	TAF120048	223.6042	226.3724	225.0922	6.1039e-01	1.9161e+00
43	TAF130048	232.9489	235.3989	234.1418	5.0837e-01	1.9181e+00
44	TAF120224	212.9880	214.7055	213.8627	4.0211e-01	1.9139e+00
45	TAF130224	221.5276	223.7227	222.5284	4.7801e-01	1.9156e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.2742	2.6947e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	40.0506	1.6498e-01	1.9011e+00
48	TAI130048	89.6477	92.3667	91.0187	6.9019e-01	1.9003e+00
49	TAI130136	291.6872	292.4156	292.1237	1.6406e-01	1.9330e+00
50	TAI130224	166.2811	168.1597	167.2500	3.5310e-01	1.9064e+00
51	TAI130312	237.3096	238.8172	238.1674	3.8323e-01	1.9190e+00
52	TRR130000	150.4362	152.1283	151.5043	3.8631e-01	1.9045e+00
53	TSI000001	43.7141	44.3662	44.0136	1.5605e-01	1.9005e+00
54	TSI000002	108.8311	110.2709	109.5869	3.4918e-01	1.9011e+00
55	TSO000001	41.2709	42.0364	41.6642	1.5616e-01	1.9005e+00
56	TSO000002	58.6970	59.5562	59.0914	2.0380e-01	1.9001e+00
57	TAF020136	110.2643	112.5433	111.2883	6.2600e-01	1.9011e+00
58	EMPTY	42.5851	43.5000	43.1033	2.7529e-01	1.9013e+00
59	TAF130312	245.5279	247.9565	246.9258	4.5875e-01	1.9210e+00
60	EMPTY	4.2041	4.2285	4.2188	4.6749e-03	0.0000e+00
61	EMPTY	4.1943	4.2090	4.2018	3.6077e-03	0.0000e+00
62	EMPTY	4.1797	4.1943	4.1868	3.4615e-03	0.0000e+00
63	EMPTY	4.1748	4.1895	4.1809	2.7351e-03	0.0000e+00
64	EMPTY	1.9873	1.9922	1.9901	2.4414e-03	0.0000e+00
65	EMPTY	1.9971	2.0068	2.0023	1.5467e-03	0.0000e+00
66	EMPTY	2.0068	2.0117	2.0086	2.3783e-03	0.0000e+00
67	EMPTY	2.0166	2.0215	2.0184	2.3783e-03	0.0000e+00
68	EMPTY	2.0215	2.0264	2.0229	2.2287e-03	0.0000e+00
69	EMPTY	2.0264	2.0361	2.0325	2.3953e-03	0.0000e+00
70	EMPTY	2.0361	2.0410	2.0396	2.2287e-03	0.0000e+00
71	EMPTY	2.0508	2.0557	2.0551	1.6172e-03	0.0000e+00
72	EMPTY	2.0557	2.0605	2.0602	1.1827e-03	0.0000e+00
73	EMPTY	2.0703	2.0752	2.0704	6.9754e-04	0.0000e+00
74	EMPTY	2.0752	2.0801	2.0780	2.4414e-03	0.0000e+00
75	EMPTY	2.0850	2.0898	2.0871	2.4414e-03	0.0000e+00
76	EMPTY	2.0898	2.0947	2.0941	1.6172e-03	0.0000e+00
77	EMPTY	2.1045	2.1094	2.1047	9.7615e-04	0.0000e+00
78	EMPTY	2.1143	2.1240	2.1192	1.5727e-03	0.0000e+00
79	EMPTY	2.1338	2.1387	2.1346	1.8234e-03	0.0000e+00
80	PAN020136	-20.2868	1.3806	-13.1230	6.1544e+00	8.7062e-01
81	PAN050136	-38.6409	-14.3794	-24.3474	6.0181e+00	1.6811e+00
82	PAN070136	-20.2718	-2.8768	-12.8962	4.1317e+00	8.7060e-01
83	PAN080136	-14.1069	2.6015	-8.6106	4.9728e+00	8.7027e-01
84	PAN090136	-13.3204	-0.5031	-8.0048	3.7073e+00	8.7023e-01
85	PAN100136	-13.0109	-0.6513	-6.8358	3.2378e+00	8.7017e-01
86	PAN105136	-6.2759	10.0510	-0.5523	3.7368e+00	8.7000e-01
87	PAN110136	-6.7995	16.4701	0.8299	4.4756e+00	8.7000e-01
88	PAN115136	-3.3518	8.5501	-0.1147	2.1568e+00	8.7000e-01
89	PAN120136	-6.9390	-0.2252	-3.7689	1.6487e+00	8.7005e-01
90	PAN125136	-4.7383	2.0519	-1.2537	1.7164e+00	8.7001e-01
91	PAN130136	-7.0916	0.3090	-4.2531	1.7087e+00	8.7006e-01
92	PAN120048	-8.7605	-1.6652	-5.0595	1.6788e+00	8.7009e-01
93	PAN130048	-7.5149	-2.7083	-5.5079	1.2446e+00	8.7011e-01
94	PAN120224	-8.5272	5.7398	-4.2703	2.5742e+00	8.7007e-01
95	PAN130224	-9.9606	-2.1023	-5.9933	1.8123e+00	8.7013e-01
96	PAN120312	-9.7537	-2.5820	-6.7081	1.2439e+00	8.7016e-01
97	PAN130312	-6.7826	-2.8916	-5.2443	1.0362e+00	8.7010e-01
98	PAB000136	39.7407	40.7478	40.2714	2.8647e-01	5.8867e-01
99	PAB100136	42.5269	43.0762	42.6857	1.2187e-01	5.8974e-01
100	PAB125136	42.8288	43.1035	42.9446	6.6797e-02	5.8985e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.1823	40.7692	40.0816	4.2920e-01	7.5666e-01
102	PRV0000001	19.5572	19.8013	19.6793	2.4917e-02	7.5161e-01
103	PSR0000001	43.0323	43.1543	43.1493	2.4404e-02	7.5772e-01
104	PFM0000001	7.4703	7.8365	7.6478	9.9606e-02	5.0037e-01
105	PAN000136	-97.2656	-68.8843	-83.1030	8.8603e+00	4.9244e+00
106	PFM0000002	7.5867	7.7881	7.6997	4.2058e-02	2.0092e-01
107	EMPTY	-0.0049	0.0049	0.0027	3.1615e-03	0.0000e+00
108	EMPTY	-10.0000	-9.5166	-9.9901	6.9057e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0012	2.1215e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	145.0872	145.4778	145.3382	1.1960e-01	1.1902e+00
113	VPW0000002	169.1256	169.5162	169.2650	9.7656e-02	1.2990e+00
114	VPW0000003	209.3112	209.8971	209.5184	1.3466e-01	1.4955e+00
115	VPW0000004	149.1286	149.7145	149.4554	1.6624e-01	1.2084e+00
116	VPW0000005	197.8966	199.0685	198.5264	2.7118e-01	1.4405e+00
117	VPW0000006	208.1881	208.5787	208.3515	1.3430e-01	1.4896e+00
118	IPW0000001	768.0219	775.8313	772.7629	1.6908e+00	1.0143e+01
119	IPW0000002	1824.1744	1831.9795	1826.8423	1.4739e+00	1.6550e+01
120	IPW0000003	1855.5001	1865.2501	1860.1162	2.4111e+00	1.6779e+01
121	IPW0000004	533.5412	535.9826	535.2550	5.5603e-01	4.6776e+00
122	IPW0000005	355.4144	357.8556	356.3310	6.7322e-01	3.4532e+00
123	IPW0000006	373.4882	375.4413	374.5645	3.5908e-01	3.5716e+00
124	EMPTY	-0.0293	-0.0146	-0.0202	3.3057e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.4414e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0160	3.3057e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0155	3.5482e-03	0.0000e+00
128	IHT0000001	183.3759	186.6962	185.2175	6.2657e-01	4.4990e+00
129	IHT0000002	182.7749	185.7046	184.5248	6.1371e-01	4.4961e+00
130	IHT0000003	182.6322	185.7572	184.2466	5.9506e-01	4.4950e+00
131	IHT0000004	184.9496	188.2700	186.5719	5.9429e-01	4.5045e+00
132	IHT0000005	182.7299	185.6595	184.1569	5.7111e-01	4.4946e+00
133	IHT0000006	178.2940	181.2237	179.6771	5.8842e-01	4.4764e+00
134	IHT0000007	186.2417	189.1714	187.6090	5.6099e-01	4.5088e+00
135	IHT0000008	184.6980	187.8230	186.0932	5.7360e-01	4.5026e+00
136	IHT0000009	183.4022	186.7225	184.9807	6.0965e-01	4.4980e+00
137	IHT0000010	183.6013	186.7263	185.2753	6.6712e-01	4.4992e+00
138	IHT0000011	185.1074	187.8418	186.6181	6.2629e-01	4.5047e+00
139	IHT0000012	183.3083	186.4333	185.0860	6.3194e-01	4.4984e+00
140	IHT0000013	130.4838	133.4135	131.9945	5.9506e-01	4.3072e+00
141	IHT0000014	179.9617	183.4773	181.9309	6.4880e-01	4.4855e+00
142	IHT0000015	133.1806	136.1103	134.9624	5.7724e-01	4.3164e+00
143	IHT0000016	124.7934	127.5278	126.5911	5.2737e-01	4.2910e+00
144	IHT0000017	149.1774	151.7165	150.5645	5.3376e-01	4.3677e+00
145	IHT0000018	151.6714	154.0152	152.7476	5.5833e-01	4.3753e+00
146	IHT0000019	152.7381	155.2772	154.0257	5.8853e-01	4.3798e+00
147	IHT0000020	150.5371	153.0762	151.7169	5.7769e-01	4.3717e+00
148	IHT0000021	-3.0274	0.0976	-1.4489	7.1522e-01	4.1000e+00
149	IHT0000022	130.6565	132.8050	131.7408	5.4818e-01	4.3065e+00
150	IHT0000023	148.9446	150.7024	149.8971	5.2078e-01	4.3654e+00
151	IHT0000024	113.4127	115.5612	114.4850	5.6820e-01	4.2568e+00
152	IHT0000025	146.8487	148.9971	147.8013	5.6330e-01	4.3583e+00
153	IHT0000026	149.6207	152.1597	150.7128	6.0845e-01	4.3682e+00
154	IHT0000027	127.7043	130.0481	128.7446	5.7414e-01	4.2974e+00
155	IHT0000028	127.7269	130.0706	128.8868	6.0253e-01	4.2978e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.5305	151.8743	150.7780	5.9109e-01	4.3685e+00
157	IHT000030	152.7982	155.5326	154.0937	6.4740e-01	4.3800e+00
158	IHT000031	149.3277	152.2573	150.6948	6.4532e-01	4.3682e+00
159	IHT000032	150.9540	153.2978	152.0343	5.9683e-01	4.3728e+00
160	IHT000033	150.7437	153.4781	151.9634	6.1185e-01	4.3726e+00
161	IHT000034	132.9214	134.8745	133.9577	5.0619e-01	4.3133e+00
162	IHT000035	174.9099	177.2536	176.0458	5.8820e-01	4.4620e+00
163	IHT000036	131.2425	133.3909	132.4822	5.1451e-01	4.3087e+00

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Velocity 1 = 0.004500 (ft/sec)

Velocity 2 = 0.000200 (ft/sec)

Pressure Drop = 0.021500 (psi)

Tsat in = 0.280701 (deg F) Tsat out = 0.147095 (deg F)

Phi inner = 0.307693 (kBtu/hr-ft2) Phi outer = 1.133301 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1309	0.1586
1	TRF000002	0.1213	0.1462
2	TFM000001	0.5372	0.6251
3	TIN000001	0.6693	0.7793
4	TRV000001	0.5810	0.6648
5	TSR000001	4.4506	2.3986
6	EMPTY	0.0196	0.0509
7	TAO050136	0.6562	0.2926
8	TAO070136	0.7996	0.3465
9	TAO080136	0.6811	0.2856
10	TAO090136	2.3261	0.9653
11	TAO100136	0.4533	0.1765
12	TAO105136	1.1816	0.4578
13	EMPTY	0.1692	0.8928
14	TAO115136	0.5222	0.1903
15	EMPTY	0.6138	1.5982
16	TAO125136	0.8312	0.2875
17	EMPTY	0.0320	0.0706
18	EMPTY	0.0281	0.0674
19	TAO130048	0.9107	0.3250
20	TAO120224	0.4131	0.1510
21	EMPTY	0.0123	0.0309
22	TAO120312	0.8942	0.3033
23	TAO130312	0.8291	0.2887
24	EMPTY	0.0277	0.0700
25	TRT070000	0.0433	0.0198
26	TRT100000	0.7120	0.2550
27	TRT120000	0.4536	0.1576
28	TRT125000	0.7546	0.2587
29	EMPTY	0.0160	0.0398
30	EMPTY	0.0516	0.1296
31	TAF050136	0.6903	0.4780
32	TAF070136	1.0479	0.6427
33	TAF080136	0.7328	0.4269
34	TAF090136	0.7666	0.4278
35	TAF100136	0.7052	0.3713
36	TAF105136	0.6907	0.3510
37	TAF110136	0.5142	0.2498
38	TAF115136	0.7240	0.3445
39	TAF120136	0.9387	0.4358
40	TAF125136	0.7705	0.3482
41	TAF130136	0.8595	0.3797
42	TAF120048	0.8526	0.3802
43	TAF130048	0.8367	0.3586
44	TAF120224	0.8956	0.4205
45	TAF130224	0.8087	0.3647

#	Name	Abs Diff	%Diff
46	EMPTY	0.0975	0.2554
47	EMPTY	0.0181	0.0452
48	TAI130048	17.2385	23.3647
49	TAI130136	0.7944	0.2727
50	TAI130224	1.8924	1.1188
51	TAI130312	6.4151	2.6229
52	TRR130000	3.4565	2.2306
53	TSI000001	0.0543	0.1232
54	TSI000002	4.6142	4.0404
55	TSO000001	0.0256	0.0614
56	TSO000002	0.0328	0.0555
57	TAF020136	0.6644	0.6006
58	EMPTY	0.0333	0.0773
59	TAF130312	0.8763	0.3561
60	EMPTY	0.0198	0.4715
61	EMPTY	0.0203	0.4855
62	EMPTY	0.0195	0.4679
63	EMPTY	0.0203	0.4879
64	EMPTY	0.0083	0.4188
65	EMPTY	0.0099	0.4969
66	EMPTY	0.0081	0.4049
67	EMPTY	0.0087	0.4329
68	EMPTY	0.0083	0.4120
69	EMPTY	0.0083	0.4100
70	EMPTY	0.0085	0.4185
71	EMPTY	0.0093	0.4546
72	EMPTY	0.0094	0.4584
73	EMPTY	0.0081	0.3928
74	EMPTY	0.0082	0.3962
75	EMPTY	0.0087	0.4186
76	EMPTY	0.0091	0.4364
77	EMPTY	0.0096	0.4582
78	EMPTY	0.0092	0.4360
79	EMPTY	0.0084	0.3951
80	PAN020136	0.4930	3.9034
81	PAN050136	0.6327	2.6680
82	PAN070136	3.5319	21.4991
83	PAN080136	3.7505	77.1692
84	PAN090136	0.6297	7.2928
85	PAN100136	0.5248	7.1299
86	PAN105136	0.3189	36.6047
87	PAN110136	0.3311	28.5185
88	PAN115136	0.6936	119.8134
89	PAN120136	0.7178	23.5259
90	PAN125136	1.3636	52.0995
91	PAN130136	0.8893	26.4374
92	PAN120048	0.7103	16.3318
93	PAN130048	0.7924	12.5772
94	PAN120224	0.4391	9.3239
95	PAN130224	0.4517	8.1511
96	PAN120312	0.2000	3.0731
97	PAN130312	0.3965	8.1790
98	PAB000136	0.1892	0.4720
99	PAB100136	0.0929	0.2181
100	PAB125136	0.1048	0.2446

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0937	0.2343
102	PRV000001	0.0390	0.1978
103	PSR000001	0.1244	0.2891
104	PFM000001	0.0091	0.1191
105	PAN000136	0.5945	0.7103
106	PFM000002	0.0011	0.0143
107	EMPTY	0.0002	8.0000
108	EMPTY	0.0003	0.0030
109	EMPTY	0.0007	36.8421
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0168	0.0116
113	VPW000002	0.0558	0.0330
114	VPW000003	0.0744	0.0355
115	VPW000004	0.1511	0.1012
116	VPW000005	0.1163	0.0585
117	VPW000006	0.0110	0.0053
118	IPW000001	1.0378	0.1341
119	IPW000002	15.4009	0.8360
120	IPW000003	2.1981	0.1183
121	IPW000004	1.0302	0.1921
122	IPW000005	1.3487	0.3771
123	IPW000006	0.5489	0.1468
124	EMPTY	0.0005	2.4155
125	EMPTY	0.0004	2.9412
126	EMPTY	0.0007	4.1916
127	EMPTY	0.0004	2.5157
128	IHT000001	0.1033	0.0558
129	IHT000002	0.1248	0.0677
130	IHT000003	0.0987	0.0536
131	IHT000004	0.0988	0.0530
132	IHT000005	0.0911	0.0495
133	IHT000006	0.0863	0.0480
134	IHT000007	0.0821	0.0438
135	IHT000008	0.1216	0.0654
136	IHT000009	0.1449	0.0784
137	IHT000010	0.0251	0.0135
138	IHT000011	0.0323	0.0173
139	IHT000012	0.0316	0.0171
140	IHT000013	0.0380	0.0288
141	IHT000014	0.0856	0.0470
142	IHT000015	0.0903	0.0670
143	IHT000016	0.0359	0.0284
144	IHT000017	0.1519	0.1008
145	IHT000018	0.1894	0.1238
146	IHT000019	0.0727	0.0472
147	IHT000020	0.0861	0.0568
148	IHT000021	0.2347	13.9404
149	IHT000022	0.2170	0.1650
150	IHT000023	0.1128	0.0753
151	IHT000024	0.1191	0.1041
152	IHT000025	0.1597	0.1082
153	IHT000026	0.1430	0.0950
154	IHT000027	0.1849	0.1438
155	IHT000028	0.1292	0.1002

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1782	0.1181
157	IHT000030	0.1811	0.1174
158	IHT000031	0.2149	0.1424
159	IHT000032	0.2010	0.1320
160	IHT000033	0.2139	0.1406
161	IHT000034	0.0011	0.0008
162	IHT000035	0.1999	0.1134
163	IHT000036	0.0092	0.0069

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Velocity 1 = 6.0323 (ft/sec) (+/- 5.6823 %)
Velocity 2 = 6.0610 (ft/sec) (+/- 3.8238 %)
Pressure drop = -3.1892 (psi)
Tsats in = 268.1362 (deg F) Tsats out = 272.4705 (deg F)
Phi inner = 200.0884 (kBtu/hr-ft2) (+/- 1.4542 %)
Phi outer = 201.8879 (kBtu/hr-ft2) (+/- 1.3483 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.4395	83.0733	82.8409	1.8234e-01	1.9001e+00
1	TRF000002	83.1337	83.5540	83.3733	1.4089e-01	1.9001e+00
2	TFM000001	84.2492	85.2988	84.7324	2.2548e-01	1.9001e+00
3	TIN000001	84.5165	85.2533	84.7735	1.7162e-01	1.9001e+00
4	TRV000001	86.2347	87.0732	86.7334	1.9581e-01	1.9002e+00
5	TSR000001	193.3570	197.8870	195.3667	1.1332e+00	1.9106e+00
6	EMPTY	37.9974	38.9168	38.4893	2.4131e-01	1.9010e+00
7	TAO050136	239.2957	240.3266	239.8132	2.0849e-01	1.9193e+00
8	TAO070136	241.7085	256.7333	246.0066	2.5664e+00	1.9208e+00
9	TAO080136	251.5425	261.3454	255.7097	1.9208e+00	1.9231e+00
10	TAO090136	253.3405	254.4572	253.8470	2.2423e-01	1.9226e+00
11	TAO100136	276.1809	277.6510	276.9158	3.7586e-01	1.9286e+00
12	TAO105136	279.3268	280.9787	280.2117	4.5441e-01	1.9295e+00
13	EMPTY	26.1972	35.0035	28.3109	2.2690e+00	1.9005e+00
14	TAO115136	294.2983	295.9434	295.2453	3.5353e-01	1.9339e+00
15	EMPTY	31.5371	41.6693	36.5987	2.8534e+00	1.9009e+00
16	TAO125136	304.4083	305.4913	305.0363	2.7578e-01	1.9369e+00
17	EMPTY	44.8706	45.7833	45.3498	1.9145e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.7243	1.3538e-01	1.9012e+00
19	TAO130048	298.3263	299.1429	298.6319	1.8475e-01	1.9349e+00
20	TAO120224	290.7121	292.0806	291.3983	2.5954e-01	1.9327e+00
21	EMPTY	39.8352	40.2940	40.0142	1.5575e-01	1.9011e+00
22	TAO120312	307.9360	309.0221	308.3997	2.8598e-01	1.9379e+00
23	TAO130312	302.3561	303.2620	302.7841	2.1087e-01	1.9362e+00
24	EMPTY	39.1464	39.8352	39.5827	1.8112e-01	1.9011e+00
25	TRT070000	224.9632	235.1581	229.5140	2.0342e+00	1.9171e+00
26	TRT100000	297.4927	298.5822	298.1141	2.3651e-01	1.9347e+00
27	TRT120000	300.2279	300.9533	300.6160	1.6200e-01	1.9355e+00
28	TRT125000	305.3890	306.3804	305.8899	2.3395e-01	1.9371e+00
29	EMPTY	40.0646	40.2940	40.2207	1.0810e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.8306	1.9937e-01	1.9011e+00
31	TAF050136	152.2686	154.6512	153.4876	5.3611e-01	1.9047e+00
32	TAF070136	173.9603	176.8877	175.5415	8.4175e-01	1.9075e+00
33	TAF080136	183.6726	187.5405	185.5303	7.6996e-01	1.9090e+00
34	TAF090136	193.4576	195.9721	194.5762	5.0914e-01	1.9104e+00
35	TAF100136	206.9138	209.2186	208.0357	5.8838e-01	1.9128e+00
36	TAF105136	213.5783	216.4184	214.9646	5.3349e-01	1.9141e+00
37	TAF110136	222.7076	225.6366	224.1560	6.1801e-01	1.9159e+00
38	TAF115136	229.8996	231.7859	230.4779	4.4265e-01	1.9173e+00
39	TAF120136	235.9156	238.5393	236.8536	5.3623e-01	1.9187e+00
40	TAF125136	242.2704	244.5049	243.3986	4.8546e-01	1.9201e+00
41	TAF130136	247.8166	249.4026	248.5599	3.4491e-01	1.9214e+00
42	TAF120048	246.4751	249.7704	247.6737	6.7021e-01	1.9211e+00
43	TAF130048	255.4273	257.3806	256.1309	4.2968e-01	1.9232e+00
44	TAF120224	232.0540	234.1276	233.1739	3.9920e-01	1.9179e+00
45	TAF130224	247.3089	250.6902	248.7143	6.6846e-01	1.9214e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.2779	3.0203e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.1656	1.2402e-01	1.9011e+00
48	TAI130048	87.1320	89.6478	88.3697	7.2704e-01	1.9002e+00
49	TAI130136	302.7422	303.4663	303.1983	1.6147e-01	1.9363e+00
50	TAI130224	173.5854	174.7664	174.2272	2.8198e-01	1.9073e+00
51	TAI130312	247.2690	248.2991	247.8309	2.3170e-01	1.9212e+00
52	TRR130000	156.4951	157.7833	157.1329	2.8738e-01	1.9051e+00
53	TSI000001	44.0403	44.9087	44.5396	1.9253e-01	1.9004e+00
54	TSI000002	110.0655	113.5566	112.2433	7.7879e-01	1.9012e+00
55	TSO000001	41.4900	42.3645	42.0187	2.1676e-01	1.9005e+00
56	TSO000002	60.8430	62.2367	61.4994	2.7541e-01	1.9000e+00
57	TAF020136	112.5421	115.9522	114.2962	8.1225e-01	1.9013e+00
58	EMPTY	42.8139	43.5000	43.1752	2.5762e-01	1.9013e+00
59	TAF130312	272.5962	273.6086	273.1195	2.2649e-01	1.9276e+00
60	EMPTY	4.8877	4.9072	4.8972	4.5645e-03	0.0000e+00
61	EMPTY	4.8682	4.8828	4.8742	4.2499e-03	0.0000e+00
62	EMPTY	4.8438	4.8584	4.8542	4.1864e-03	0.0000e+00
63	EMPTY	4.8340	4.8486	4.8427	3.7291e-03	0.0000e+00
64	EMPTY	2.2803	2.2852	2.2805	9.6655e-04	0.0000e+00
65	EMPTY	2.2852	2.2949	2.2905	1.7784e-03	0.0000e+00
66	EMPTY	2.2949	2.2998	2.2963	2.2146e-03	0.0000e+00
67	EMPTY	2.2998	2.3047	2.3043	1.3381e-03	0.0000e+00
68	EMPTY	2.3047	2.3096	2.3069	2.4583e-03	0.0000e+00
69	EMPTY	2.3096	2.3145	2.3143	9.6655e-04	0.0000e+00
70	EMPTY	2.3193	2.3193	2.3193	0.0000e+00	0.0000e+00
71	EMPTY	2.3291	2.3340	2.3338	9.6655e-04	0.0000e+00
72	EMPTY	2.3340	2.3389	2.3378	2.0432e-03	0.0000e+00
73	EMPTY	2.3438	2.3486	2.3466	2.4344e-03	0.0000e+00
74	EMPTY	2.3486	2.3535	2.3510	2.4642e-03	0.0000e+00
75	EMPTY	2.3584	2.3584	2.3584	0.0000e+00	0.0000e+00
76	EMPTY	2.3633	2.3633	2.3633	0.0000e+00	0.0000e+00
77	EMPTY	2.3682	2.3779	2.3732	1.3811e-03	0.0000e+00
78	EMPTY	2.3828	2.3877	2.3867	1.9730e-03	0.0000e+00
79	EMPTY	2.3975	2.4023	2.4015	1.8950e-03	0.0000e+00
80	PAN020136	-20.2868	-3.6548	-14.4153	5.3746e+00	8.7075e-01
81	PAN050136	-34.3684	-21.2458	-26.6169	3.5660e+00	1.6813e+00
82	PAN070136	-23.5524	-8.2174	-17.1636	3.1636e+00	8.7106e-01
83	PAN080136	-14.0306	-2.8917	-8.1025	3.3283e+00	8.7024e-01
84	PAN090136	-13.3204	-0.3505	-7.9707	3.9845e+00	8.7023e-01
85	PAN100136	-13.0109	13.0816	-6.6633	6.1571e+00	8.7016e-01
86	PAN105136	-4.4448	20.3507	4.6997	5.8977e+00	8.7008e-01
87	PAN110136	-6.4944	2.2794	-1.6772	1.7922e+00	8.7001e-01
88	PAN115136	-7.5479	0.5392	-3.7989	2.4188e+00	8.7005e-01
89	PAN120136	-7.0153	6.5650	-2.6803	3.9539e+00	8.7003e-01
90	PAN125136	-2.6783	5.8666	0.0865	2.7953e+00	8.7000e-01
91	PAN130136	-0.7592	0.2327	-0.3594	2.0248e-01	8.7000e-01
92	PAN120048	-6.2428	-1.4363	-4.6040	1.1388e+00	8.7008e-01
93	PAN130048	-3.0898	-2.4032	-2.7190	1.8238e-01	8.7003e-01
94	PAN120224	-6.9250	0.6281	-3.9846	1.5959e+00	8.7006e-01
95	PAN130224	-3.3230	-0.8053	-2.3357	5.2484e-01	8.7002e-01
96	PAN120312	-7.4649	-3.1924	-6.4501	7.4406e-01	8.7015e-01
97	PAN130312	-1.8235	-1.0606	-1.3749	2.0544e-01	8.7001e-01
98	PAB000136	39.9696	41.1140	40.5180	2.9486e-01	5.8878e-01
99	PAB100136	43.0304	44.0375	43.3179	2.4954e-01	5.9002e-01
100	PAB125136	43.4239	43.6528	43.5539	6.0898e-02	5.9013e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3043	41.2575	40.5031	4.4780e-01	7.5680e-01
102	PRV000001	19.8013	19.9234	19.8282	5.1081e-02	7.5164e-01
103	PSR000001	43.2764	43.5206	43.4034	6.5063e-02	7.5781e-01
104	PFM000001	5.4561	5.7308	5.5568	8.5264e-02	5.0019e-01
105	PAN000136	-101.3855	-72.5464	-88.2935	8.4296e+00	4.9249e+00
106	PFM000002	5.4892	5.6906	5.6107	4.2146e-02	2.0049e-01
107	EMPTY	-0.0049	0.0049	-0.0010	3.6911e-03	0.0000e+00
108	EMPTY	-10.0000	-9.8682	-9.9953	2.3385e-02	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0004	2.1703e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	145.2825	145.6731	145.4269	1.0297e-01	1.1906e+00
113	VPW000002	169.1256	169.5162	169.2505	1.0259e-01	1.2990e+00
114	VPW000003	209.3112	210.0924	209.5963	1.3788e-01	1.4959e+00
115	VPW000004	149.1286	149.5192	149.4098	1.0559e-01	1.2082e+00
116	VPW000005	198.6779	199.0685	198.7911	1.1223e-01	1.4418e+00
117	VPW000006	208.3834	208.5787	208.5123	9.3461e-02	1.4904e+00
118	IPW000001	771.9266	775.8313	773.9179	1.2151e+00	1.0148e+01
119	IPW000002	1837.8334	1843.6871	1840.8376	1.1296e+00	1.6646e+01
120	IPW000003	1851.6001	1855.5001	1853.2382	1.2053e+00	1.6732e+01
121	IPW000004	535.9826	537.4474	536.8712	4.0301e-01	4.6892e+00
122	IPW000005	356.8791	357.8556	357.4453	3.0178e-01	3.4603e+00
123	IPW000006	373.4882	374.9530	374.2304	3.4513e-01	3.5694e+00
124	EMPTY	-0.0293	-0.0146	-0.0214	3.6765e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0149	1.8216e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0167	2.6267e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	3.1335e-03	0.0000e+00
128	IHT000001	183.7665	186.1103	184.8876	6.0722e-01	4.4976e+00
129	IHT000002	182.9702	185.5093	184.1461	5.8059e-01	4.4945e+00
130	IHT000003	182.8275	185.3666	183.9526	6.0690e-01	4.4938e+00
131	IHT000004	185.1450	187.2934	186.2465	5.5909e-01	4.5032e+00
132	IHT000005	182.7299	185.0736	183.8744	5.8926e-01	4.4934e+00
133	IHT000006	178.0987	180.4424	179.3721	5.5837e-01	4.4752e+00
134	IHT000007	186.2417	188.3902	187.3512	5.9378e-01	4.5078e+00
135	IHT000008	184.5027	187.0418	185.7762	6.5464e-01	4.5013e+00
136	IHT000009	183.4022	185.7459	184.6562	6.2402e-01	4.4966e+00
137	IHT000010	183.9919	186.5309	185.1520	5.4306e-01	4.4987e+00
138	IHT000011	185.3027	187.6465	186.4512	5.3327e-01	4.5040e+00
139	IHT000012	183.8942	186.2380	184.9098	5.4960e-01	4.4977e+00
140	IHT000013	130.8744	133.2181	131.8823	5.5574e-01	4.3069e+00
141	IHT000014	180.7429	183.0867	181.8329	5.7058e-01	4.4851e+00
142	IHT000015	133.5712	135.9150	134.7471	5.4603e-01	4.3157e+00
143	IHT000016	125.1840	127.3325	126.4731	5.3379e-01	4.2906e+00
144	IHT000017	149.5681	152.1071	150.9977	6.7479e-01	4.3692e+00
145	IHT000018	151.2808	153.8199	152.7495	6.0263e-01	4.3753e+00
146	IHT000019	152.5428	155.0819	153.7538	5.9451e-01	4.3788e+00
147	IHT000020	150.3418	152.6855	151.3301	5.6139e-01	4.3704e+00
148	IHT000021	-3.2227	-0.0977	-1.6992	7.1026e-01	4.1000e+00
149	IHT000022	130.2659	133.0003	131.4847	5.9655e-01	4.3057e+00
150	IHT000023	148.3586	151.0930	149.5265	5.6426e-01	4.3642e+00
151	IHT000024	113.0221	115.3659	114.0807	5.1006e-01	4.2558e+00
152	IHT000025	146.2628	148.6065	147.3526	5.3246e-01	4.3568e+00
153	IHT000026	149.0347	151.3785	150.2847	5.1448e-01	4.3668e+00
154	IHT000027	127.1184	129.4621	128.3878	5.0107e-01	4.2963e+00
155	IHT000028	127.7269	130.0706	129.0238	5.7421e-01	4.2982e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.5305	152.0696	150.7921	5.9609e-01	4.3685e+00
157	IHT000030	152.7982	155.3373	154.0287	5.9090e-01	4.3798e+00
158	IHT000031	149.3277	152.2573	150.6245	6.0201e-01	4.3679e+00
159	IHT000032	150.5634	153.4931	151.9892	6.0264e-01	4.3727e+00
160	IHT000033	150.5484	153.4781	151.8960	5.8427e-01	4.3723e+00
161	IHT000034	132.7261	134.8745	133.8472	4.9096e-01	4.3129e+00
162	IHT000035	174.9099	176.8630	176.0426	4.6522e-01	4.4620e+00
163	IHT000036	131.4378	133.0003	132.3441	4.1715e-01	4.3083e+00

Velocity 1 = 5.9927 (ft/sec) (+/- 5.7309 %)
Velocity 2 = 6.0184 (ft/sec) (+/- 3.8336 %)
Pressure drop = -3.0746 (psi)
Tsats in = 268.2187 (deg F) Tsats out = 272.4742 (deg F)
Phi inner = 200.5027 (kBtu/hr-ft2) (+/- 1.4539 %)
Phi outer = 200.7054 (kBtu/hr-ft2) (+/- 1.3497 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.6508	83.2845	82.9569	2.0253e-01	1.9001e+00
1	TRF000002	83.1337	83.7642	83.4640	1.3565e-01	1.9001e+00
2	TFM000001	85.1939	86.1385	85.6264	2.3140e-01	1.9002e+00
3	TIN000001	85.2533	85.9897	85.6225	1.8609e-01	1.9002e+00
4	TRV000001	87.5949	88.4333	88.0097	2.2505e-01	1.9002e+00
5	TSR000001	194.2256	198.7520	196.8922	1.1978e+00	1.9108e+00
6	EMPTY	37.9974	38.9168	38.4337	2.4035e-01	1.9010e+00
7	TAO050136	240.9805	242.0088	241.4082	2.0318e-01	1.9197e+00
8	TAO070136	244.9128	259.1613	248.0492	2.6587e+00	1.9212e+00
9	TAO080136	252.9321	261.1622	257.2887	1.4982e+00	1.9235e+00
10	TAO090136	256.7801	257.8022	257.3033	2.2096e-01	1.9235e+00
11	TAO100136	279.9445	281.3206	280.7046	2.8449e-01	1.9297e+00
12	TAO105136	280.2451	283.3619	281.6915	6.3739e-01	1.9300e+00
13	EMPTY	34.7728	36.3865	35.8927	3.7345e-01	1.9009e+00
14	TAO115136	296.3999	298.1343	297.3318	3.7536e-01	1.9345e+00
15	EMPTY	31.3055	43.0426	35.3244	2.7119e+00	1.9008e+00
16	TAO125136	304.3188	305.2222	304.7902	2.6080e-01	1.9368e+00
17	EMPTY	45.0988	45.7833	45.3131	1.8281e-01	1.9014e+00
18	EMPTY	41.6693	41.8984	41.7301	1.0216e-01	1.9012e+00
19	TAO130048	297.7844	298.6914	298.3154	1.7475e-01	1.9348e+00
20	TAO120224	291.8073	292.9921	292.3819	2.6267e-01	1.9330e+00
21	EMPTY	39.8352	40.2940	40.0600	1.1931e-01	1.9011e+00
22	TAO120312	307.8457	309.5652	308.6326	4.1522e-01	1.9380e+00
23	TAO130312	301.2712	302.2675	301.7983	2.2239e-01	1.9359e+00
24	EMPTY	39.1464	40.0646	39.5682	2.0071e-01	1.9011e+00
25	TRT070000	228.3062	240.5623	231.8309	2.6128e+00	1.9176e+00
26	TRT100000	298.7630	299.6709	299.1541	2.3076e-01	1.9351e+00
27	TRT120000	301.0439	301.8606	301.4069	1.9862e-01	1.9357e+00
28	TRT125000	304.5797	305.3026	304.9628	1.7046e-01	1.9368e+00
29	EMPTY	40.0646	40.5234	40.2706	1.1701e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7837	2.0022e-01	1.9011e+00
31	TAF050136	152.9625	156.3364	154.7748	5.9670e-01	1.9048e+00
32	TAF070136	174.7442	178.9325	176.6030	7.4449e-01	1.9076e+00
33	TAF080136	185.3162	188.8927	186.8721	8.0640e-01	1.9092e+00
34	TAF090136	194.1349	197.4205	195.9781	6.2301e-01	1.9107e+00
35	TAF100136	207.7783	210.1785	208.7858	5.4204e-01	1.9129e+00
36	TAF105136	214.8115	217.2690	215.9415	5.0916e-01	1.9143e+00
37	TAF110136	223.8418	226.7697	225.1902	6.0337e-01	1.9162e+00
38	TAF115136	231.0319	232.6349	231.6963	3.9113e-01	1.9175e+00
39	TAF120136	237.0398	238.7251	237.9392	3.3378e-01	1.9189e+00
40	TAF125136	243.4791	245.4370	244.5146	3.6949e-01	1.9204e+00
41	TAF130136	247.7239	249.4957	248.7809	3.6536e-01	1.9214e+00
42	TAF120048	247.6999	250.3346	249.1346	5.8657e-01	1.9215e+00
43	TAF130048	257.6587	259.7939	258.5594	4.9545e-01	1.9238e+00
44	TAF120224	233.2795	235.5392	234.5365	3.9786e-01	1.9182e+00
45	TAF130224	253.4092	258.4607	255.9301	1.4092e+00	1.9231e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.2555	2.6805e-01	1.9010e+00
47	EMPTY	39.8352	40.5234	40.1911	1.5575e-01	1.9011e+00
48	TAI130048	74.0546	77.3371	75.5701	7.3292e-01	1.9000e+00
49	TAI130136	302.1098	302.8347	302.4631	1.5824e-01	1.9361e+00
50	TAI130224	172.7975	174.0774	173.4828	2.8626e-01	1.9072e+00
51	TAI130312	243.4241	244.2690	243.8494	2.2020e-01	1.9203e+00
52	TRR130000	158.0795	159.1693	158.6171	2.6758e-01	1.9053e+00
53	TSI000001	44.2571	45.1262	44.6099	1.9520e-01	1.9004e+00
54	TSI000002	111.8131	114.3776	112.7258	6.0448e-01	1.9012e+00
55	TSO000001	41.5983	42.3635	42.0135	1.7844e-01	1.9005e+00
56	TSO000002	61.1649	62.3441	61.7950	2.5577e-01	1.9000e+00
57	TAF020136	113.5750	117.4993	115.0588	9.5215e-01	1.9014e+00
58	EMPTY	42.8139	43.5000	43.0799	2.4855e-01	1.9012e+00
59	TAF130312	272.6886	273.6096	273.2468	1.9478e-01	1.9276e+00
60	EMPTY	4.8926	4.9023	4.8979	2.6061e-03	0.0000e+00
61	EMPTY	4.8730	4.8779	4.8744	2.2287e-03	0.0000e+00
62	EMPTY	4.8486	4.8584	4.8539	1.9523e-03	0.0000e+00
63	EMPTY	4.8389	4.8438	4.8433	1.4934e-03	0.0000e+00
64	EMPTY	2.2803	2.2852	2.2806	1.1827e-03	0.0000e+00
65	EMPTY	2.2900	2.2949	2.2902	9.7615e-04	0.0000e+00
66	EMPTY	2.2900	2.2998	2.2952	1.5467e-03	0.0000e+00
67	EMPTY	2.2998	2.3047	2.3044	1.1827e-03	0.0000e+00
68	EMPTY	2.3047	2.3096	2.3058	2.0584e-03	0.0000e+00
69	EMPTY	2.3096	2.3145	2.3144	6.9754e-04	0.0000e+00
70	EMPTY	2.3193	2.3242	2.3196	1.1827e-03	0.0000e+00
71	EMPTY	2.3291	2.3340	2.3339	6.9754e-04	0.0000e+00
72	EMPTY	2.3340	2.3389	2.3379	1.9883e-03	0.0000e+00
73	EMPTY	2.3438	2.3486	2.3460	2.4621e-03	0.0000e+00
74	EMPTY	2.3486	2.3535	2.3524	2.0584e-03	0.0000e+00
75	EMPTY	2.3584	2.3633	2.3589	1.4934e-03	0.0000e+00
76	EMPTY	2.3584	2.3633	2.3632	6.9754e-04	0.0000e+00
77	EMPTY	2.3730	2.3779	2.3733	1.1827e-03	0.0000e+00
78	EMPTY	2.3828	2.3877	2.3875	9.7615e-04	0.0000e+00
79	EMPTY	2.3975	2.4023	2.4018	1.4934e-03	0.0000e+00
80	PAN020136	-20.2868	-0.8319	-13.4998	5.8162e+00	8.7065e-01
81	PAN050136	-33.3003	-18.1941	-26.4027	3.6148e+00	1.6813e+00
82	PAN070136	-23.7813	-11.8795	-17.9923	3.0435e+00	8.7116e-01
83	PAN080136	-14.0306	1.5334	-6.3187	3.6680e+00	8.7014e-01
84	PAN090136	-13.3204	0.5651	-9.5275	4.1509e+00	8.7033e-01
85	PAN100136	-12.0191	11.7846	-0.5143	6.3402e+00	8.7000e-01
86	PAN105136	-5.3604	3.1083	-2.1187	1.7254e+00	8.7002e-01
87	PAN110136	-6.6469	2.8898	-2.1643	2.3432e+00	8.7002e-01
88	PAN115136	-5.8695	2.0651	-1.5347	1.8329e+00	8.7001e-01
89	PAN120136	-6.0235	1.3007	-3.4248	1.5379e+00	8.7004e-01
90	PAN125136	-2.4495	0.9838	-0.9859	8.6453e-01	8.7000e-01
91	PAN130136	1.3771	2.5215	2.0061	3.3710e-01	8.7001e-01
92	PAN120048	-6.6243	-3.1148	-5.8691	6.8368e-01	8.7012e-01
93	PAN130048	-0.7247	0.4960	-0.1377	2.9761e-01	8.7000e-01
94	PAN120224	-6.4672	1.2385	-3.4591	2.0052e+00	8.7004e-01
95	PAN130224	-0.6527	0.7206	-0.0610	3.1012e-01	8.7000e-01
96	PAN120312	-7.3123	-6.0153	-6.7144	2.8604e-01	8.7016e-01
97	PAN130312	0.2364	1.9149	1.2205	4.0886e-01	8.7001e-01
98	PAB000136	40.1527	41.0225	40.5740	2.6280e-01	5.8880e-01
99	PAB100136	42.9389	43.2135	43.1023	7.2979e-02	5.8992e-01
100	PAB125136	43.4239	43.6528	43.5565	5.6255e-02	5.9013e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.6706	41.1354	40.4578	4.3306e-01	7.5679e-01
102	PRV000001	19.6793	19.8013	19.7465	6.1346e-02	7.5162e-01
103	PSR000001	43.2764	43.3985	43.2814	2.4404e-02	7.5777e-01
104	PFM000001	5.3645	5.5476	5.4823	6.1981e-02	5.0019e-01
105	PAN000136	-95.4346	-71.1731	-85.1209	8.0669e+00	4.9246e+00
106	PFM000002	5.4389	5.5899	5.5300	3.3031e-02	2.0048e-01
107	EMPTY	-0.0049	0.0049	-0.0007	3.8602e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0001	2.1119e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	145.0872	145.6731	145.3900	1.1319e-01	1.1904e+00
113	VPW000002	169.1256	169.5162	169.3129	7.9328e-02	1.2993e+00
114	VPW000003	209.3112	209.8971	209.6300	1.1755e-01	1.4960e+00
115	VPW000004	149.3239	149.7145	149.4674	1.0378e-01	1.2085e+00
116	VPW000005	198.4826	199.0685	198.7695	1.3284e-01	1.4417e+00
117	VPW000006	207.9928	208.7740	208.4911	1.5978e-01	1.4903e+00
118	IPW000001	768.0219	775.8313	771.9664	2.2005e+00	1.0139e+01
119	IPW000002	1824.1744	1830.0282	1826.2448	1.9271e+00	1.6546e+01
120	IPW000003	1853.5500	1861.3501	1857.9272	2.5026e+00	1.6764e+01
121	IPW000004	533.5412	535.4943	534.2187	5.4424e-01	4.6702e+00
122	IPW000005	354.9261	356.3909	355.7929	3.3450e-01	3.4497e+00
123	IPW000006	372.9999	374.9530	373.8868	4.0698e-01	3.5671e+00
124	EMPTY	-0.0293	-0.0146	-0.0199	4.2094e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.9284e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0164	2.9388e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.2124e-03	0.0000e+00
128	IHT000001	183.9618	186.5009	185.0580	5.9511e-01	4.4983e+00
129	IHT000002	183.1655	185.7046	184.3295	5.4367e-01	4.4953e+00
130	IHT000003	182.8275	185.5619	184.0433	5.5853e-01	4.4941e+00
131	IHT000004	185.1450	188.0746	186.3208	5.7979e-01	4.5035e+00
132	IHT000005	182.9252	185.4642	183.9536	5.8969e-01	4.4938e+00
133	IHT000006	178.4893	180.8331	179.4419	5.3136e-01	4.4755e+00
134	IHT000007	186.6324	188.5855	187.4216	4.9789e-01	4.5081e+00
135	IHT000008	184.8933	187.0418	185.8421	5.1211e-01	4.5015e+00
136	IHT000009	183.9881	186.3319	184.7694	5.3489e-01	4.4971e+00
137	IHT000010	183.9919	186.1403	185.1079	5.9134e-01	4.4985e+00
138	IHT000011	185.4980	187.4512	186.4586	5.4931e-01	4.5041e+00
139	IHT000012	183.8942	186.2380	184.9863	5.8718e-01	4.4980e+00
140	IHT000013	130.8744	133.0228	131.9148	5.5010e-01	4.3070e+00
141	IHT000014	180.9382	183.0867	181.8990	5.3761e-01	4.4854e+00
142	IHT000015	133.7665	136.1103	134.9106	5.5815e-01	4.3163e+00
143	IHT000016	125.3793	127.7231	126.6110	5.2317e-01	4.2910e+00
144	IHT000017	149.5681	152.4977	151.0149	7.7299e-01	4.3693e+00
145	IHT000018	151.8667	154.2105	152.9190	6.1223e-01	4.3759e+00
146	IHT000019	152.3475	155.4725	153.6829	6.4204e-01	4.3786e+00
147	IHT000020	149.9512	153.0762	151.3064	6.6402e-01	4.3703e+00
148	IHT000021	-3.4180	0.2930	-1.8595	7.2915e-01	4.1000e+00
149	IHT000022	130.0706	133.0003	131.3462	5.9013e-01	4.3053e+00
150	IHT000023	148.5539	150.7024	149.5344	5.5457e-01	4.3642e+00
151	IHT000024	113.2174	115.1705	114.1103	5.2438e-01	4.2558e+00
152	IHT000025	146.4581	148.6065	147.3668	5.5034e-01	4.3568e+00
153	IHT000026	149.4253	151.5738	150.3899	5.7693e-01	4.3671e+00
154	IHT000027	127.3137	129.4621	128.4018	5.8999e-01	4.2964e+00
155	IHT000028	127.3363	130.4612	128.9466	6.6656e-01	4.2980e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.3352	152.4602	150.8657	6.8978e-01	4.3688e+00
157	IHT000030	152.7982	155.5326	154.1415	6.5708e-01	4.3802e+00
158	IHT000031	149.5230	152.2573	150.7427	6.7249e-01	4.3683e+00
159	IHT000032	150.5634	153.2978	152.0821	6.6981e-01	4.3730e+00
160	IHT000033	150.7437	153.2828	152.0232	6.5517e-01	4.3728e+00
161	IHT000034	132.3355	135.0699	133.8461	5.3306e-01	4.3129e+00
162	IHT000035	174.7146	177.0583	175.9860	5.7928e-01	4.4617e+00
163	IHT000036	131.0472	133.5862	132.3546	5.3519e-01	4.3083e+00

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Velocity 1 = 0.039600 (ft/sec)

Velocity 2 = 0.042600 (ft/sec)

Pressure Drop = 0.114600 (psi)

Tsat in = 0.082489 (deg F) Tsat out = 0.003723 (deg F)

Phi inner = 0.414307 (kBtu/hr-ft2) Phi outer = 1.182495 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1160	0.1400
1	TRF000002	0.0907	0.1088
2	TFM000001	0.8940	1.0551
3	TIN000001	0.8490	1.0015
4	TRV000001	1.2763	1.4715
5	TSR000001	1.5255	0.7808
6	EMPTY	0.0556	0.1445
7	TAO050136	1.5950	0.6651
8	TAO070136	2.0426	0.8303
9	TAO080136	1.5790	0.6175
10	TAO090136	3.4563	1.3616
11	TAO100136	3.7888	1.3682
12	TAO105136	1.4798	0.5281
13	EMPTY	7.5818	26.7805
14	TAO115136	2.0865	0.7067
15	EMPTY	1.2743	3.4818
16	TAO125136	0.2461	0.0807
17	EMPTY	0.0367	0.0809
18	EMPTY	0.0058	0.0139
19	TAO130048	0.3165	0.1060
20	TAO120224	0.9836	0.3375
21	EMPTY	0.0458	0.1145
22	TAO120312	0.2329	0.0755
23	TAO130312	0.9858	0.3256
24	EMPTY	0.0145	0.0366
25	TRT070000	2.3169	1.0095
26	TRT100000	1.0400	0.3489
27	TRT120000	0.7909	0.2631
28	TRT125000	0.9271	0.3031
29	EMPTY	0.0499	0.1241
30	EMPTY	0.0469	0.1178
31	TAF050136	1.2872	0.8386
32	TAF070136	1.0615	0.6047
33	TAF080136	1.3418	0.7232
34	TAF090136	1.4019	0.7205
35	TAF100136	0.7501	0.3606
36	TAF105136	0.9769	0.4544
37	TAF110136	1.0342	0.4614
38	TAF115136	1.2184	0.5286
39	TAF120136	1.0856	0.4583
40	TAF125136	1.1160	0.4585
41	TAF130136	0.2210	0.0889
42	TAF120048	1.4609	0.5898
43	TAF130048	2.4285	0.9481
44	TAF120224	1.3626	0.5844
45	TAF130224	7.2158	2.9012

#	Name	Abs Diff	%Diff
46	EMPTY	0.0224	0.0585
47	EMPTY	0.0255	0.0635
48	TAI130048	12.7996	14.4841
49	TAI130136	0.7352	0.2425
50	TAI130224	0.7444	0.4273
51	TAI130312	3.9815	1.6065
52	TRR130000	1.4842	0.9445
53	TSI000001	0.0703	0.1578
54	TSI000002	0.4825	0.4299
55	TSO000001	0.0052	0.0124
56	TSO000002	0.2956	0.4807
57	TAF020136	0.7626	0.6672
58	EMPTY	0.0953	0.2207
59	TAF130312	0.1273	0.0466
60	EMPTY	0.0007	0.0143
61	EMPTY	0.0002	0.0041
62	EMPTY	0.0003	0.0062
63	EMPTY	0.0006	0.0124
64	EMPTY	0.0001	0.0044
65	EMPTY	0.0003	0.0131
66	EMPTY	0.0011	0.0479
67	EMPTY	0.0001	0.0043
68	EMPTY	0.0011	0.0477
69	EMPTY	0.0001	0.0043
70	EMPTY	0.0003	0.0129
71	EMPTY	0.0001	0.0043
72	EMPTY	0.0001	0.0043
73	EMPTY	0.0006	0.0256
74	EMPTY	0.0014	0.0595
75	EMPTY	0.0005	0.0212
76	EMPTY	0.0001	0.0042
77	EMPTY	0.0001	0.0042
78	EMPTY	0.0008	0.0335
79	EMPTY	0.0003	0.0125
80	PAN020136	0.9155	6.3509
81	PAN050136	0.2142	0.8047
82	PAN070136	0.8287	4.8282
83	PAN080136	1.7838	22.0154
84	PAN090136	1.5568	19.5315
85	PAN100136	6.1490	92.2816
86	PAN105136	6.8184	145.0816
87	PAN110136	0.4871	29.0425
88	PAN115136	2.2642	59.6015
89	PAN120136	0.7445	27.7767
90	PAN125136	1.0724	1239.7688
91	PAN130136	2.3655	658.1803
92	PAN120048	1.2651	27.4783
93	PAN130048	2.5813	94.9356
94	PAN120224	0.5255	13.1883
95	PAN130224	2.2747	97.3884
96	PAN120312	0.2643	4.0976
97	PAN130312	2.5954	188.7701
98	PAB000136	0.0560	0.1382
99	PAB100136	0.2156	0.4977
100	PAB125136	0.0026	0.0060

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0453	0.1118
102	PRV000001	0.0817	0.4120
103	PSR000001	0.1220	0.2811
104	PFM000001	0.0745	1.3407
105	PAN000136	3.1726	3.5932
106	PFM000002	0.0807	1.4383
107	EMPTY	0.0003	30.0000
108	EMPTY	0.0047	0.0470
109	EMPTY	0.0005	125.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0369	0.0254
113	VPW000002	0.0624	0.0369
114	VPW000003	0.0337	0.0161
115	VPW000004	0.0576	0.0386
116	VPW000005	0.0216	0.0109
117	VPW000006	0.0212	0.0102
118	IPW000001	1.9515	0.2522
119	IPW000002	14.5929	0.7927
120	IPW000003	4.6891	0.2530
121	IPW000004	2.6525	0.4941
122	IPW000005	1.6524	0.4623
123	IPW000006	0.3436	0.0918
124	EMPTY	0.0015	7.0094
125	EMPTY	0.0008	5.3691
126	EMPTY	0.0003	1.7964
127	EMPTY	0.0005	2.9940
128	IHT000001	0.1704	0.0922
129	IHT000002	0.1834	0.0996
130	IHT000003	0.0907	0.0493
131	IHT000004	0.0743	0.0399
132	IHT000005	0.0792	0.0431
133	IHT000006	0.0698	0.0389
134	IHT000007	0.0704	0.0376
135	IHT000008	0.0659	0.0355
136	IHT000009	0.1132	0.0613
137	IHT000010	0.0441	0.0238
138	IHT000011	0.0074	0.0040
139	IHT000012	0.0765	0.0414
140	IHT000013	0.0325	0.0246
141	IHT000014	0.0661	0.0364
142	IHT000015	0.1635	0.1213
143	IHT000016	0.1379	0.1090
144	IHT000017	0.0172	0.0114
145	IHT000018	0.1695	0.1110
146	IHT000019	0.0709	0.0461
147	IHT000020	0.0237	0.0157
148	IHT000021	0.1603	9.4339
149	IHT000022	0.1385	0.1053
150	IHT000023	0.0079	0.0053
151	IHT000024	0.0296	0.0259
152	IHT000025	0.0142	0.0096
153	IHT000026	0.1052	0.0700
154	IHT000027	0.0140	0.0109
155	IHT000028	0.0772	0.0598

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#	Name	Abs Diff	%Diff
156	IHT0000029	0.0736	0.0488
157	IHT0000030	0.1128	0.0732
158	IHT0000031	0.1182	0.0785
159	IHT0000032	0.0929	0.0611
160	IHT0000033	0.1272	0.0837
161	IHT0000034	0.0011	0.0008
162	IHT0000035	0.0566	0.0322
163	IHT0000036	0.0105	0.0079

Velocity 1 = 5.8399 (ft/sec) (+/- 5.9286 %)
Velocity 2 = 5.8619 (ft/sec) (+/- 3.8725 %)
Pressure drop = -2.7877 (psi)
Tsat in = 268.1524 (deg F) Tsat out = 272.1642 (deg F)
Phi inner = 198.6584 (kBtu/hr-ft2) (+/- 1.4552 %)
Phi outer = 200.3672 (kBtu/hr-ft2) (+/- 1.3496 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.8621	83.4957	83.1704	1.7180e-01	1.9001e+00
1	TRF000002	83.3439	83.9742	83.6339	1.4009e-01	1.9001e+00
2	TFM000001	85.5090	86.3480	85.9915	2.0108e-01	1.9002e+00
3	TIN000001	85.9892	86.8299	86.3678	1.7892e-01	1.9002e+00
4	TRV000001	87.3871	88.4333	87.8935	2.5035e-01	1.9002e+00
5	TSR000001	199.4265	204.4162	202.2674	1.4349e+00	1.9117e+00
6	EMPTY	37.9974	38.9168	38.4847	2.5700e-01	1.9010e+00
7	TAO050136	244.0629	245.2777	244.8141	2.5652e-01	1.9205e+00
8	TAO070136	247.8277	266.1488	251.6403	3.2254e+00	1.9221e+00
9	TAO080136	257.0082	268.6173	261.4019	1.9132e+00	1.9245e+00
10	TAO090136	262.1572	263.0839	262.6169	2.1575e-01	1.9248e+00
11	TAO100136	284.0672	285.5313	284.8761	3.4252e-01	1.9309e+00
12	TAO105136	284.9181	288.7572	286.9114	9.8186e-01	1.9314e+00
13	EMPTY	39.6057	41.6693	40.8580	5.5629e-01	1.9011e+00
14	TAO115136	300.5060	301.7804	301.2197	2.7920e-01	1.9357e+00
15	EMPTY	31.0739	43.2713	35.9424	3.4924e+00	1.9009e+00
16	TAO125136	302.3351	303.6902	303.1729	2.6995e-01	1.9363e+00
17	EMPTY	44.8706	45.7833	45.3316	1.7547e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.7014	1.2251e-01	1.9012e+00
19	TAO130048	298.6900	299.6864	299.1867	2.3312e-01	1.9351e+00
20	TAO120224	294.3583	295.1785	294.7592	1.9732e-01	1.9337e+00
21	EMPTY	30.8352	40.5234	40.0647	1.3110e-01	1.9011e+00
22	TAO120312	308.2077	309.7461	308.9028	3.5323e-01	1.9381e+00
23	TAO130312	298.6470	299.6440	299.1432	2.3112e-01	1.9350e+00
24	EMPTY	39.1464	40.0646	39.5643	1.8946e-01	1.9011e+00
25	TRT070000	232.4965	240.8453	236.1589	2.0968e+00	1.9185e+00
26	TRT100000	301.1194	301.8452	301.4931	1.7436e-01	1.9358e+00
27	TRT120000	302.4042	303.1295	302.7521	1.6004e-01	1.9362e+00
28	TRT125000	302.4206	303.2334	302.8355	1.9915e-01	1.9362e+00
29	EMPTY	40.0646	40.5234	40.2115	1.5202e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7939	2.3040e-01	1.9011e+00
31	TAF050136	156.2381	159.3080	157.4786	5.3458e-01	1.9051e+00
32	TAF070136	177.7646	181.5574	179.8198	7.1764e-01	1.9081e+00
33	TAF080136	188.8923	192.2642	190.5074	6.2775e-01	1.9098e+00
34	TAF090136	198.7716	201.2770	199.8667	6.5782e-01	1.9113e+00
35	TAF100136	211.5208	214.9666	212.9038	5.9676e-01	1.9137e+00
36	TAF105136	218.8733	221.4222	220.2298	4.2705e-01	1.9151e+00
37	TAF110136	228.1839	231.2896	229.6153	6.0481e-01	1.9171e+00
38	TAF115136	235.4583	237.3368	236.3414	4.2071e-01	1.9185e+00
39	TAF120136	241.9027	243.4901	242.7988	3.9902e-01	1.9200e+00
40	TAF125136	246.8302	248.5017	247.4142	3.4312e-01	1.9211e+00
41	TAF130136	251.2652	252.4763	251.9099	2.8752e-01	1.9222e+00
42	TAF120048	250.5215	252.8693	251.7092	4.6825e-01	1.9221e+00
43	TAF130048	267.7554	269.6938	268.8965	5.0482e-01	1.9265e+00
44	TAF120224	237.7958	239.6734	238.6031	3.9015e-01	1.9191e+00
45	TAF130224	268.3322	270.2815	269.3901	4.4326e-01	1.9266e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.2043	2.6781e-01	1.9010e+00
47	EMPTY	40.0646	40.2940	40.1977	1.1438e-01	1.9011e+00
48	TAI130048	70.1249	76.4910	72.7290	1.9715e+00	1.9000e+00
49	TAI130136	300.6641	301.3895	301.0231	1.7461e-01	1.9356e+00
50	TAI130224	172.9942	176.9289	174.4942	9.5741e-01	1.9073e+00
51	TAI130312	244.4562	246.0508	245.1995	3.5692e-01	1.9206e+00
52	TRR130000	157.7828	160.6521	159.0424	6.1842e-01	1.9053e+00
53	TSI000001	43.8246	44.4761	44.2111	1.6150e-01	1.9004e+00
54	TSI000002	112.9413	115.5035	114.2461	5.1143e-01	1.9013e+00
55	TSO000001	41.2689	42.1436	41.7765	1.9094e-01	1.9005e+00
56	TSO000002	61.2726	62.2369	61.7483	2.0559e-01	1.9000e+00
57	TAF020136	115.0232	119.2511	116.7850	1.1231e+00	1.9015e+00
58	EMPTY	42.5851	43.5000	43.1432	2.4079e-01	1.9013e+00
59	TAF130312	272.3217	273.1500	272.8187	1.8039e-01	1.9275e+00
60	EMPTY	4.8779	4.8877	4.8833	2.2603e-03	0.0000e+00
61	EMPTY	4.8584	4.8633	4.8601	2.3365e-03	0.0000e+00
62	EMPTY	4.8340	4.8438	4.8400	2.3261e-03	0.0000e+00
63	EMPTY	4.8242	4.8340	4.8289	2.1970e-03	0.0000e+00
64	EMPTY	2.2705	2.2803	2.2754	1.3951e-03	0.0000e+00
65	EMPTY	2.2852	2.2900	2.2853	6.9053e-04	0.0000e+00
66	EMPTY	2.2900	2.2949	2.2904	1.3381e-03	0.0000e+00
67	EMPTY	2.2949	2.2998	2.2983	2.2603e-03	0.0000e+00
68	EMPTY	2.2998	2.3047	2.3000	9.6655e-04	0.0000e+00
69	EMPTY	2.3096	2.3096	2.3096	0.0000e+00	0.0000e+00
70	EMPTY	2.3096	2.3145	2.3144	6.9053e-04	0.0000e+00
71	EMPTY	2.3242	2.3291	2.3283	1.8082e-03	0.0000e+00
72	EMPTY	2.3291	2.3340	2.3310	2.3941e-03	0.0000e+00
73	EMPTY	2.3389	2.3438	2.3398	1.9730e-03	0.0000e+00
74	EMPTY	2.3438	2.3486	2.3458	2.4344e-03	0.0000e+00
75	EMPTY	2.3535	2.3535	2.3535	0.0000e+00	0.0000e+00
76	EMPTY	2.3535	2.3584	2.3583	6.9053e-04	0.0000e+00
77	EMPTY	2.3633	2.3730	2.3682	9.8648e-04	0.0000e+00
78	EMPTY	2.3779	2.3828	2.3809	2.4164e-03	0.0000e+00
79	EMPTY	2.3926	2.3975	2.3964	2.0432e-03	0.0000e+00
80	PAN020136	-20.2868	-2.8918	-13.8629	5.3549e+00	8.7069e-01
81	PAN050136	-34.3684	-17.7363	-26.6047	3.9846e+00	1.6813e+00
82	PAN070136	-24.6968	-11.5743	-19.1747	3.5346e+00	8.7132e-01
83	PAN080136	-14.1069	1.3045	-8.8334	4.4379e+00	8.7028e-01
84	PAN090136	-13.3204	5.9819	-2.3005	4.4301e+00	8.7002e-01
85	PAN100136	-8.4333	8.5039	-4.7117	3.6392e+00	8.7008e-01
86	PAN105136	-5.3604	1.7350	-1.8173	1.5391e+00	8.7001e-01
87	PAN110136	-5.8840	4.1868	-1.9991	1.9543e+00	8.7001e-01
88	PAN115136	-3.7332	0.9970	-1.7160	1.1295e+00	8.7001e-01
89	PAN120136	-3.3532	-1.6747	-2.8100	3.5271e-01	8.7003e-01
90	PAN125136	1.8230	2.8148	2.3952	2.4961e-01	8.7002e-01
91	PAN130136	5.1155	6.0310	5.5931	2.4264e-01	8.7011e-01
92	PAN120048	-5.8613	-5.2510	-5.5501	1.5011e-01	8.7011e-01
93	PAN130048	6.1418	7.9728	7.0985	4.7388e-01	8.7018e-01
94	PAN120224	-6.1621	-2.1185	-4.2379	1.0152e+00	8.7006e-01
95	PAN130224	7.5871	9.2655	8.3195	3.9116e-01	8.7025e-01
96	PAN120312	-5.6338	-4.8709	-5.1943	1.8339e-01	8.7010e-01
97	PAN130312	7.0266	8.4762	7.6659	3.5648e-01	8.7021e-01
98	PAB000136	40.0612	40.9767	40.5290	2.7579e-01	5.8878e-01
99	PAB100136	42.8931	43.2135	43.0194	6.8935e-02	5.8989e-01
100	PAB125136	43.2408	43.4239	43.3332	5.0222e-02	5.9003e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.1823	40.8913	40.2540	4.6551e-01	7.5672e-01
102	PRV000001	19.5572	19.6793	19.5621	2.4164e-02	7.5159e-01
103	PSR000001	42.6661	42.7881	42.7246	6.1605e-02	7.5757e-01
104	PFM000001	4.9983	5.4561	5.2016	9.8380e-02	5.0017e-01
105	PAN000136	-88.1104	-63.8489	-77.1790	7.8982e+00	4.9238e+00
106	PFM000002	5.1704	5.3718	5.2416	4.5553e-02	2.0043e-01
107	EMPTY	-0.0049	0.0049	0.0026	3.1521e-03	0.0000e+00
108	EMPTY	-10.0000	-8.2959	-9.9551	2.5140e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0018	2.5648e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	145.0872	145.8684	145.4503	1.7204e-01	1.1907e+00
113	VPW000002	168.9303	169.7115	169.4068	1.6815e-01	1.2997e+00
114	VPW000003	209.3112	209.8971	209.5534	1.4530e-01	1.4956e+00
115	VPW000004	149.1286	149.7145	149.4449	1.7598e-01	1.2084e+00
116	VPW000005	198.4826	199.0685	198.7325	1.7218e-01	1.4415e+00
117	VPW000006	208.1881	208.5787	208.3756	1.4743e-01	1.4897e+00
118	IPW000001	781.6883	787.5453	783.9921	1.5624e+00	1.0197e+01
119	IPW000002	1804.6617	1812.4668	1809.1885	1.9883e+00	1.6428e+01
120	IPW000003	1837.9501	1843.8000	1841.1088	1.8432e+00	1.6648e+01
121	IPW000004	533.0529	536.9592	535.1817	9.0820e-01	4.6771e+00
122	IPW000005	353.9497	355.9026	354.9846	4.7959e-01	3.4445e+00
123	IPW000006	370.0702	372.0233	371.0566	4.1256e-01	3.5486e+00
124	EMPTY	-0.0293	-0.0098	-0.0198	4.3461e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0128	3.4016e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0157	3.4583e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0154	2.8523e-03	0.0000e+00
128	IHT000001	183.5712	186.3056	184.7978	6.1768e-01	4.4972e+00
129	IHT000002	182.7749	186.2905	184.1304	6.4163e-01	4.4945e+00
130	IHT000003	182.8275	185.1713	183.9330	5.6718e-01	4.4937e+00
131	IHT000004	185.1450	187.2934	186.2309	5.9341e-01	4.5031e+00
132	IHT000005	182.7299	184.8783	183.8158	5.6243e-01	4.4932e+00
133	IHT000006	178.0987	180.4424	179.3252	5.7323e-01	4.4750e+00
134	IHT000007	186.0464	188.5855	187.2535	5.6454e-01	4.5074e+00
135	IHT000008	184.5027	186.8465	185.6786	5.3596e-01	4.5009e+00
136	IHT000009	183.2069	185.7459	184.5468	5.7725e-01	4.4962e+00
137	IHT000010	184.1872	186.3356	185.1051	4.9324e-01	4.4985e+00
138	IHT000011	185.3027	187.6465	186.3848	5.4706e-01	4.5038e+00
139	IHT000012	183.8942	185.8474	184.8747	5.6011e-01	4.4975e+00
140	IHT000013	130.8744	133.0228	131.8393	4.8874e-01	4.3068e+00
141	IHT000014	180.9382	182.6961	181.7938	4.7333e-01	4.4850e+00
142	IHT000015	133.7665	135.7197	134.7314	4.3835e-01	4.3157e+00
143	IHT000016	125.7700	127.5278	126.5005	4.7484e-01	4.2907e+00
144	IHT000017	149.3727	151.7165	150.5055	5.8660e-01	4.3675e+00
145	IHT000018	151.2808	154.2105	152.6948	5.8734e-01	4.3751e+00
146	IHT000019	152.7381	154.8866	153.9608	5.5637e-01	4.3795e+00
147	IHT000020	150.3418	152.4902	151.5254	5.1359e-01	4.3710e+00
148	IHT000021	-3.2227	-0.0977	-1.4688	6.6672e-01	4.1000e+00
149	IHT000022	130.0706	132.4144	131.5433	5.2528e-01	4.3059e+00
150	IHT000023	148.5539	150.7024	149.7882	5.1364e-01	4.3650e+00
151	IHT000024	113.2174	115.1705	114.3307	5.1637e-01	4.2564e+00
152	IHT000025	146.4581	148.8018	147.7393	4.8993e-01	4.3581e+00
153	IHT000026	149.4253	151.5738	150.5894	4.2308e-01	4.3678e+00
154	IHT000027	127.1184	130.0481	128.6300	4.9096e-01	4.2970e+00
155	IHT000028	126.7503	130.0706	128.8402	7.3636e-01	4.2977e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.9446	152.0696	150.7491	6.7377e-01	4.3684e+00
157	IHT000030	152.6029	155.5326	154.0170	6.6797e-01	4.3797e+00
158	IHT000031	149.1323	152.0620	150.5933	6.7455e-01	4.3678e+00
159	IHT000032	150.5634	153.2978	151.9658	6.7160e-01	4.3726e+00
160	IHT000033	150.5484	153.2828	151.9038	6.6546e-01	4.3724e+00
161	IHT000034	132.3355	134.4839	133.7066	5.2123e-01	4.3125e+00
162	IHT000035	174.5192	176.6677	175.8239	4.9981e-01	4.4611e+00
163	IHT000036	131.0472	133.1956	132.2152	5.1522e-01	4.3079e+00

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sum2

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Velocity 1 = 5.8670 (ft/sec) (+/- 5.8909 %)
Velocity 2 = 5.8581 (ft/sec) (+/- 3.8733 %)
Pressure drop = -2.8778 (psi)
Tsat in = 267.4847 (deg F) Tsat out = 271.6846 (deg F)
Phi inner = 198.7380 (kBtu/hr-ft2) (+/- 1.4552 %)
Phi outer = 200.2296 (kBtu/hr-ft2) (+/- 1.3497 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.8621	83.7068	83.2974	2.0857e-01	1.9001e+00
1	TRF000002	83.5540	83.9742	83.7942	1.2866e-01	1.9001e+00
2	TFM000001	83.8312	84.6720	84.2747	2.1371e-01	1.9001e+00
3	TIN000001	83.7791	84.6218	84.1965	1.8737e-01	1.9001e+00
4	TRV000001	86.0269	86.8655	86.3417	2.0962e-01	1.9002e+00
5	TSR000001	200.6747	207.5740	204.4148	1.7591e+00	1.9121e+00
6	EMPTY	38.2273	38.9168	38.4900	2.2497e-01	1.9010e+00
7	TAO050136	242.1956	244.2520	243.1561	3.5627e-01	1.9201e+00
8	TAO070136	245.2874	262.5183	249.7179	3.5078e+00	1.9216e+00
9	TAO080136	255.9904	264.0207	260.2573	1.8325e+00	1.9242e+00
10	TAO090136	263.2685	264.2866	263.6460	2.0334e-01	1.9251e+00
11	TAO100136	281.7791	283.1523	282.3918	3.4281e-01	1.9302e+00
12	TAO105136	282.9036	286.5646	284.7535	9.1682e-01	1.9308e+00
13	EMPTY	39.8352	42.1273	41.0940	6.7823e-01	1.9011e+00
14	TAO115136	299.2284	300.3221	299.7513	2.6753e-01	1.9352e+00
15	EMPTY	30.3788	43.2713	36.3369	3.7492e+00	1.9009e+00
16	TAO125136	301.9736	303.4199	302.9808	2.5435e-01	1.9362e+00
17	EMPTY	44.8706	45.5552	45.3363	1.8606e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.7114	1.2077e-01	1.9012e+00
19	TAO130048	298.0570	298.6933	298.4610	1.7086e-01	1.9348e+00
20	TAO120224	293.4476	294.3592	293.9293	2.2933e-01	1.9335e+00
21	EMPTY	39.8352	40.2940	40.0412	1.2606e-01	1.9011e+00
22	TAO120312	306.6685	308.0267	307.3651	3.5468e-01	1.9376e+00
23	TAO130312	298.7365	300.1869	299.2645	3.2772e-01	1.9351e+00
24	EMPTY	39.1464	39.8352	39.5916	1.7158e-01	1.9011e+00
25	TRT070000	229.7330	240.3725	234.0300	2.5828e+00	1.9180e+00
26	TRT100000	299.8512	300.7586	300.3053	1.9059e-01	1.9354e+00
27	TRT120000	301.8600	302.5859	302.2324	1.8540e-01	1.9360e+00
28	TRT125000	301.0696	301.7933	301.4437	1.5444e-01	1.9358e+00
29	EMPTY	40.0646	40.2940	40.2192	1.0869e-01	1.9011e+00
30	EMPTY	39.3761	40.2940	39.8633	1.9671e-01	1.9011e+00
31	TAF050136	154.2557	156.3383	155.2499	5.1075e-01	1.9049e+00
32	TAF070136	176.4989	179.2265	177.6746	6.1935e-01	1.9078e+00
33	TAF080136	187.3487	190.4380	188.4505	6.3399e-01	1.9094e+00
34	TAF090136	196.2619	199.7363	198.0277	7.9470e-01	1.9110e+00
35	TAF100136	209.6024	212.7659	211.1742	6.2278e-01	1.9134e+00
36	TAF105136	217.5541	219.4433	218.5549	4.8093e-01	1.9148e+00
37	TAF110136	226.4871	229.4090	227.9058	6.4259e-01	1.9167e+00
38	TAF115136	233.8588	235.5528	234.6907	4.2911e-01	1.9182e+00
39	TAF120136	240.3145	242.0905	241.0543	3.9754e-01	1.9196e+00
40	TAF125136	245.0665	247.1109	246.0997	4.9861e-01	1.9208e+00
41	TAF130136	249.5896	250.8952	250.2764	3.1636e-01	1.9218e+00
42	TAF120048	248.9225	251.2723	250.3881	5.4131e-01	1.9218e+00
43	TAF130048	265.1671	268.2169	266.5904	6.6188e-01	1.9259e+00
44	TAF120224	235.0693	237.0446	236.2115	3.9148e-01	1.9185e+00
45	TAF130224	266.1011	269.3524	267.4249	6.7702e-01	1.9261e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0349	2.1686e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	39.9991	1.1473e-01	1.9011e+00
48	TAI130048	74.7966	81.4550	78.2639	1.6107e+00	1.9000e+00
49	TAI130136	300.3023	301.0278	300.6969	1.6304e-01	1.9355e+00
50	TAI130224	172.1073	175.4547	173.3817	6.6000e-01	1.9072e+00
51	TAI130312	243.1425	246.1447	244.4734	8.9775e-01	1.9204e+00
52	TRR130000	159.1693	163.4144	160.7971	8.6960e-01	1.9055e+00
53	TSI000001	44.0410	45.0187	44.5137	2.0023e-01	1.9004e+00
54	TSI000002	111.7105	114.5831	113.2249	6.1481e-01	1.9013e+00
55	TSO000001	41.3782	42.2533	41.9761	1.8813e-01	1.9005e+00
56	TSO000002	61.3791	62.4512	61.8258	2.3499e-01	1.9000e+00
57	TAF020136	112.8494	116.8800	114.5004	9.4173e-01	1.9013e+00
58	EMPTY	42.8139	43.5000	43.1920	2.6633e-01	1.9013e+00
59	TAF130312	271.8614	273.0586	272.4819	2.2459e-01	1.9274e+00
60	EMPTY	4.8682	4.8730	4.8707	2.4662e-03	0.0000e+00
61	EMPTY	4.8438	4.8486	4.8472	2.2287e-03	0.0000e+00
62	EMPTY	4.8242	4.8291	4.8260	2.3783e-03	0.0000e+00
63	EMPTY	4.8145	4.8193	4.8157	2.1781e-03	0.0000e+00
64	EMPTY	2.2656	2.2705	2.2702	1.1827e-03	0.0000e+00
65	EMPTY	2.2754	2.2803	2.2800	1.1827e-03	0.0000e+00
66	EMPTY	2.2803	2.2852	2.2850	9.7615e-04	0.0000e+00
67	EMPTY	2.2900	2.2949	2.2916	2.3135e-03	0.0000e+00
68	EMPTY	2.2949	2.2998	2.2955	1.6172e-03	0.0000e+00
69	EMPTY	2.2998	2.3047	2.3041	1.6172e-03	0.0000e+00
70	EMPTY	2.3047	2.3096	2.3093	1.1827e-03	0.0000e+00
71	EMPTY	2.3193	2.3242	2.3221	2.4414e-03	0.0000e+00
72	EMPTY	2.3242	2.3291	2.3254	2.1215e-03	0.0000e+00
73	EMPTY	2.3340	2.3389	2.3343	1.1827e-03	0.0000e+00
74	EMPTY	2.3389	2.3438	2.3397	1.8234e-03	0.0000e+00
75	EMPTY	2.3389	2.3486	2.3482	1.6787e-03	0.0000e+00
76	EMPTY	2.3486	2.3535	2.3531	1.3508e-03	0.0000e+00
77	EMPTY	2.3584	2.3633	2.3630	1.1827e-03	0.0000e+00
78	EMPTY	2.3730	2.3779	2.3748	2.3783e-03	0.0000e+00
79	EMPTY	2.3877	2.3926	2.3892	2.2737e-03	0.0000e+00
80	PAN020136	-20.2868	-3.1207	-14.4184	5.0212e+00	8.7075e-01
81	PAN050136	-37.4202	-16.6682	-26.7982	4.4592e+00	1.6813e+00
82	PAN070136	-24.7731	-13.9394	-19.5042	2.8521e+00	8.7137e-01
83	PAN080136	-14.0306	-0.9080	-8.0252	3.4564e+00	8.7023e-01
84	PAN090136	-13.3204	5.9819	-4.8923	5.4608e+00	8.7009e-01
85	PAN100136	-12.6295	5.2233	-5.5357	4.4459e+00	8.7011e-01
86	PAN105136	-5.7418	5.2445	0.6964	2.6402e+00	8.7000e-01
87	PAN110136	-6.7232	1.5928	-1.7828	1.7082e+00	8.7001e-01
88	PAN115136	-6.1746	2.5229	-1.8508	1.9325e+00	8.7001e-01
89	PAN120136	-3.5821	2.5214	-2.2944	1.1550e+00	8.7002e-01
90	PAN125136	0.9838	1.9756	1.5023	2.5683e-01	8.7001e-01
91	PAN130136	4.4288	5.4207	4.9458	2.4039e-01	8.7009e-01
92	PAN120048	-5.8613	-4.6406	-5.3070	2.7805e-01	8.7010e-01
93	PAN130048	4.9973	6.2181	5.6560	3.3571e-01	8.7011e-01
94	PAN120224	-6.3909	0.3992	-3.3330	1.8835e+00	8.7004e-01
95	PAN130224	5.7560	7.3582	6.5236	3.5765e-01	8.7015e-01
96	PAN120312	-5.9390	-4.9472	-5.6182	1.8425e-01	8.7011e-01
97	PAN130312	5.8059	7.2555	6.5034	2.8800e-01	8.7015e-01
98	PAB000136	39.6492	40.7020	40.0780	2.8992e-01	5.8859e-01
99	PAB100136	42.5727	42.9389	42.7791	9.5347e-02	5.8978e-01
100	PAB125136	42.8288	43.1492	42.9894	6.2068e-02	5.8987e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.0602	40.6471	39.9296	4.3775e-01	7.5661e-01
102	PRV000001	19.5572	19.6793	19.6270	6.1035e-02	7.5160e-01
103	PSR000001	42.2999	42.5440	42.4568	6.1035e-02	7.5747e-01
104	PFM000001	5.0899	5.4561	5.2524	9.0141e-02	5.0017e-01
105	PAN000136	-92.6880	-67.0532	-79.6744	8.3078e+00	4.9240e+00
106	PFM000002	5.1704	5.3047	5.2362	3.2283e-02	2.0043e-01
107	EMPTY	-0.0049	0.0049	0.0017	3.0803e-03	0.0000e+00
108	EMPTY	-10.0000	-8.8330	-9.9279	2.1431e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0023	2.4621e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	145.0872	145.8684	145.4059	1.8136e-01	1.1905e+00
113	VPW000002	168.9303	169.5162	169.3009	1.0731e-01	1.2992e+00
114	VPW000003	209.3112	210.0924	209.6819	1.6556e-01	1.4963e+00
115	VPW000004	149.1286	149.7145	149.3916	1.7172e-01	1.2081e+00
116	VPW000005	198.4826	199.2638	198.8811	2.0700e-01	1.4422e+00
117	VPW000006	208.1881	208.7740	208.4512	1.5208e-01	1.4901e+00
118	IPW000001	775.8313	791.4500	784.3179	3.3710e+00	1.0198e+01
119	IPW000002	1792.9541	1820.2719	1803.4672	9.2455e+00	1.6389e+01
120	IPW000003	1836.0001	1847.7001	1839.8204	2.7276e+00	1.6639e+01
121	IPW000004	537.4474	540.3771	538.4836	6.5078e-01	4.7007e+00
122	IPW000005	355.4144	356.8791	356.1815	4.1091e-01	3.4522e+00
123	IPW000006	370.5585	373.4882	371.9736	8.1122e-01	3.5546e+00
124	EMPTY	-0.0244	-0.0098	-0.0196	3.7940e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0134	3.1163e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0156	3.3026e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.2375e-03	0.0000e+00
128	IHT000001	183.3759	186.3056	184.8866	5.8834e-01	4.4976e+00
129	IHT000002	182.5796	184.9234	184.1780	5.4907e-01	4.4947e+00
130	IHT000003	182.4369	184.9760	184.0034	6.1569e-01	4.4940e+00
131	IHT000004	184.5590	187.8793	186.3049	6.9673e-01	4.5034e+00
132	IHT000005	182.3392	185.0736	183.9377	6.4368e-01	4.4937e+00
133	IHT000006	177.9034	180.6378	179.4340	6.2064e-01	4.4755e+00
134	IHT000007	186.0464	188.3902	187.4415	5.9935e-01	4.5082e+00
135	IHT000008	184.6980	187.2371	185.9218	5.9506e-01	4.5019e+00
136	IHT000009	183.5975	185.9413	184.7774	6.0326e-01	4.4971e+00
137	IHT000010	183.9919	186.5309	185.1279	5.7867e-01	4.4986e+00
138	IHT000011	185.4980	187.6465	186.3710	5.4679e-01	4.5037e+00
139	IHT000012	183.5036	185.8474	184.8110	5.8892e-01	4.4973e+00
140	IHT000013	130.6791	132.8275	131.8351	5.4056e-01	4.3067e+00
141	IHT000014	180.7429	183.2820	181.9468	5.9180e-01	4.4856e+00
142	IHT000015	133.5712	136.3056	134.7950	6.4381e-01	4.3159e+00
143	IHT000016	125.1840	127.7231	126.5194	6.4820e-01	4.2908e+00
144	IHT000017	148.5915	152.4977	151.0029	7.3572e-01	4.3692e+00
145	IHT000018	151.2808	154.4058	152.8034	6.6111e-01	4.3755e+00
146	IHT000019	152.5428	155.0819	153.9898	5.3773e-01	4.3796e+00
147	IHT000020	149.7558	152.6855	151.4937	6.2179e-01	4.3709e+00
148	IHT000021	-3.6133	-0.0977	-1.4967	7.0573e-01	4.1000e+00
149	IHT000022	130.0706	132.6097	131.5375	5.4244e-01	4.3058e+00
150	IHT000023	148.3586	150.7024	149.7417	5.2262e-01	4.3649e+00
151	IHT000024	113.0221	115.3659	114.2777	5.3489e-01	4.2561e+00
152	IHT000025	146.4581	148.8018	147.6578	5.2891e-01	4.3578e+00
153	IHT000026	149.4253	151.7691	150.5294	5.4160e-01	4.3676e+00
154	IHT000027	127.1184	130.0481	128.5652	5.9257e-01	4.2968e+00
155	IHT000028	127.5316	130.4612	128.9546	6.6950e-01	4.2980e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.5305	152.2649	150.8378	6.6974e-01	4.3687e+00
157	IHT000030	152.7982	155.7279	154.1415	6.9356e-01	4.3802e+00
158	IHT000031	149.3277	152.4527	150.7068	6.9673e-01	4.3682e+00
159	IHT000032	150.5634	153.8837	152.0861	7.1538e-01	4.3730e+00
160	IHT000033	150.5484	153.6734	152.0192	6.9180e-01	4.3728e+00
161	IHT000034	132.5308	135.0699	133.8501	5.6316e-01	4.3130e+00
162	IHT000035	174.9099	177.0583	176.1136	5.6148e-01	4.4622e+00
163	IHT000036	131.0472	133.5862	132.3227	5.5113e-01	4.3082e+00

Velocity 1 = 0.027100 (ft/sec)

Velocity 2 = 0.003800 (ft/sec)

Pressure Drop = 0.090100 (psi)

Tsat in = 0.667694 (deg F) Tsat out = 0.479614 (deg F)

Phi inner = 0.079605 (kBtu/hr-ft2) Phi outer = 0.137604 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1270	0.1527
1	TRF000002	0.1603	0.1917
2	TFM000001	1.7168	1.9965
3	TIN000001	2.1713	2.5140
4	TRV000001	1.5518	1.7655
5	TSR000001	2.1474	1.0617
6	EMPTY	0.0053	0.0138
7	TAO050136	1.6580	0.6773
8	TAO070136	1.9224	0.7640
9	TAO080136	1.1446	0.4379
10	TAO090136	1.0291	0.3919
11	TAO100136	2.4843	0.8721
12	TAO105136	2.1579	0.7521
13	EMPTY	0.2360	0.5776
14	TAO115136	1.4684	0.4875
15	EMPTY	0.3945	1.0976
16	TAO125136	0.1921	0.0634
17	EMPTY	0.0047	0.0104
18	EMPTY	0.0100	0.0240
19	TAO130048	0.7257	0.2426
20	TAO120224	0.8299	0.2816
21	EMPTY	0.0235	0.0587
22	TAO120312	1.5377	0.4978
23	TAO130312	0.1213	0.0406
24	EMPTY	0.0273	0.0690
25	TRT070000	2.1289	0.9015
26	TRT100000	1.1878	0.3940
27	TRT120000	0.5197	0.1717
28	TRT125000	1.3918	0.4596
29	EMPTY	0.0077	0.0192
30	EMPTY	0.0694	0.1744
31	TAF050136	2.2287	1.4152
32	TAF070136	2.1452	1.1930
33	TAF080136	2.0569	1.0797
34	TAF090136	1.8390	0.9201
35	TAF100136	1.7296	0.8124
36	TAF105136	1.6749	0.7605
37	TAF110136	1.7095	0.7445
38	TAF115136	1.6507	0.6984
39	TAF120136	1.7445	0.7185
40	TAF125136	1.3145	0.5313
41	TAF130136	1.6335	0.6484
42	TAF120048	1.3211	0.5248
43	TAF130048	2.3061	0.8576
44	TAF120224	2.3916	1.0023
45	TAF130224	1.9652	0.7295

#	Name	Abs Diff	%Diff
46	EMPTY	0.1694	0.4434
47	EMPTY	0.1986	0.4941
48	TAI130048	5.5349	7.6103
49	TAI130136	0.3262	0.1084
50	TAI130224	1.1125	0.6376
51	TAI130312	0.7261	0.2961
52	TRR130000	1.7547	1.1033
53	TSI000001	0.3026	0.6844
54	TSI000002	1.0212	0.8939
55	TSO000001	0.1996	0.4778
56	TSO000002	0.0775	0.1255
57	TAF020136	2.2846	1.9563
58	EMPTY	0.0488	0.1131
59	TAF130312	0.3368	0.1234
60	EMPTY	0.0126	0.2580
61	EMPTY	0.0129	0.2654
62	EMPTY	0.0140	0.2893
63	EMPTY	0.0132	0.2734
64	EMPTY	0.0052	0.2285
65	EMPTY	0.0053	0.2319
66	EMPTY	0.0054	0.2358
67	EMPTY	0.0067	0.2915
68	EMPTY	0.0045	0.1956
69	EMPTY	0.0055	0.2381
70	EMPTY	0.0051	0.2204
71	EMPTY	0.0062	0.2663
72	EMPTY	0.0056	0.2402
73	EMPTY	0.0055	0.2351
74	EMPTY	0.0061	0.2600
75	EMPTY	0.0053	0.2252
76	EMPTY	0.0052	0.2205
77	EMPTY	0.0052	0.2196
78	EMPTY	0.0061	0.2562
79	EMPTY	0.0072	0.3005
80	PAN020136	0.5555	4.0071
81	PAN050136	0.1935	0.7273
82	PAN070136	0.3295	1.7184
83	PAN080136	0.8082	9.1494
84	PAN090136	2.5918	112.6625
85	PAN100136	0.8240	17.4884
86	PAN105136	2.5137	138.3206
87	PAN110136	0.2163	10.8199
88	PAN115136	0.1348	7.8555
89	PAN120136	0.5156	18.3488
90	PAN125136	0.8929	37.2787
91	PAN130136	0.6473	11.5732
92	PAN120048	0.2431	4.3801
93	PAN130048	1.4425	20.3212
94	PAN120224	0.9049	21.3526
95	PAN130224	1.7959	21.5866
96	PAN120312	0.4239	8.1609
97	PAN130312	1.1625	15.1646
98	PAB000136	0.4510	1.1128
99	PAB100136	0.2403	0.5586
100	PAB125136	0.3438	0.7934

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#	Name	Abs Diff	%Diff
101	PIN000001	0.3244	0.8059
102	PRV000001	0.0649	0.3318
103	PSR000001	0.2678	0.6268
104	PFM000001	0.0508	0.9766
105	PAN000136	2.4954	3.2333
106	PFM000002	0.0054	0.1030
107	EMPTY	0.0009	34.6154
108	EMPTY	0.0272	0.2732
109	EMPTY	0.0005	27.7778
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0444	0.0305
113	VPW000002	0.1059	0.0625
114	VPW000003	0.1285	0.0613
115	VPW000004	0.0533	0.0357
116	VPW000005	0.1486	0.0748
117	VPW000006	0.0756	0.0363
118	IPW000001	0.3257	0.0415
119	IPW000002	5.7213	0.3162
120	IPW000003	1.2883	0.0700
121	IPW000004	3.3019	0.6170
122	IPW000005	1.1969	0.3372
123	IPW000006	0.9170	0.2471
124	EMPTY	0.0002	1.0101
125	EMPTY	0.0006	4.6875
126	EMPTY	0.0001	0.6369
127	EMPTY	0.0009	5.8442
128	IHT000001	0.0888	0.0480
129	IHT000002	0.0476	0.0258
130	IHT000003	0.0704	0.0383
131	IHT000004	0.0740	0.0397
132	IHT000005	0.1219	0.0663
133	IHT000006	0.1088	0.0607
134	IHT000007	0.1880	0.1004
135	IHT000008	0.2432	0.1310
136	IHT000009	0.2306	0.1250
137	IHT000010	0.0228	0.0123
138	IHT000011	0.0138	0.0074
139	IHT000012	0.0637	0.0345
140	IHT000013	0.0042	0.0032
141	IHT000014	0.1530	0.0842
142	IHT000015	0.0636	0.0472
143	IHT000016	0.0189	0.0149
144	IHT000017	0.4974	0.3305
145	IHT000018	0.1086	0.0711
146	IHT000019	0.0290	0.0188
147	IHT000020	0.0317	0.0209
148	IHT000021	0.0279	1.8995
149	IHT000022	0.0058	0.0044
150	IHT000023	0.0465	0.0310
151	IHT000024	0.0530	0.0464
152	IHT000025	0.0815	0.0552
153	IHT000026	0.0600	0.0398
154	IHT000027	0.0648	0.0504
155	IHT000028	0.1144	0.0888

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0887	0.0588
157	IHT000030	0.1245	0.0808
158	IHT000031	0.1135	0.0754
159	IHT000032	0.1203	0.0792
160	IHT000033	0.1154	0.0760
161	IHT000034	0.1435	0.1073
162	IHT000035	0.2897	0.1648
163	IHT000036	0.1075	0.0813

Velocity 1 = 6.1935 (ft/sec) (+/- 5.4994 %)
Velocity 2 = 6.2242 (ft/sec) (+/- 3.7894 %)
Pressure drop = -3.2474 (psi)
Tsat in = 267.4243 (deg F) Tsat out = 271.7685 (deg F)
Phi inner = 201.2964 (kBtu/hr-ft2) (+/- 1.4534 %)
Phi outer = 201.6161 (kBtu/hr-ft2) (+/- 1.3491 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	83.0733	83.7068	83.4830	1.6746e-01	1.9001e+00
1	TRF000002	83.7642	84.1843	83.9154	1.2034e-01	1.9001e+00
2	TFM000001	86.0338	86.8724	86.4597	1.9807e-01	1.9002e+00
3	TIN000001	86.1994	86.8304	86.5002	1.5165e-01	1.9002e+00
4	TRV000001	87.8062	88.7482	88.3525	2.1171e-01	1.9002e+00
5	TSR000001	197.8888	208.4342	203.7525	2.9727e+00	1.9120e+00
6	EMPTY	37.7675	38.9168	38.4801	2.4680e-01	1.9010e+00
7	TAO050136	236.9577	237.8961	237.3874	2.4062e-01	1.9188e+00
8	TAO070136	240.9515	255.2350	244.1344	2.7885e+00	1.9203e+00
9	TAO080136	248.3880	260.4262	254.1071	2.5627e+00	1.9227e+00
10	TAO090136	261.6957	262.6218	262.1493	2.2705e-01	1.9247e+00
11	TAO100136	276.2729	277.1924	276.7386	2.1768e-01	1.9286e+00
12	TAO105136	276.8475	278.6849	277.7537	4.1385e-01	1.9289e+00
13	EMPTY	24.7992	30.1470	27.4853	1.2395e+00	1.9005e+00
14	TAO115136	291.8258	293.1993	292.5674	3.8132e-01	1.9331e+00
15	EMPTY	31.3055	43.0426	37.4996	3.2859e+00	1.9009e+00
16	TAO125136	302.8785	303.6912	303.2952	1.8779e-01	1.9363e+00
17	EMPTY	44.8706	45.7833	45.3179	2.0072e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6876	1.2102e-01	1.9012e+00
19	TAO130048	295.3419	296.4309	295.8772	1.7900e-01	1.9341e+00
20	TAO120224	288.5219	289.2527	288.9146	1.9985e-01	1.9320e+00
21	EMPTY	39.8352	40.0646	39.9362	1.1506e-01	1.9011e+00
22	TAO120312	303.4544	304.9462	304.2406	3.1435e-01	1.9366e+00
23	TAO130312	300.4580	301.8170	300.9387	2.6343e-01	1.9356e+00
24	EMPTY	39.1464	39.8352	39.5368	1.7508e-01	1.9011e+00
25	TRT070000	224.2895	234.6801	228.1161	2.1406e+00	1.9168e+00
26	TRT100000	294.4982	295.2256	294.8967	1.9071e-01	1.9338e+00
27	TRT120000	298.4135	299.1401	298.7857	1.5492e-01	1.9349e+00
28	TRT125000	300.4389	301.0723	300.7736	1.6275e-01	1.9355e+00
29	EMPTY	40.0646	40.5234	40.2390	1.1870e-01	1.9011e+00
30	EMPTY	39.3761	40.2940	39.7984	2.2410e-01	1.9011e+00
31	TAF050136	151.9716	154.3547	153.1587	5.1222e-01	1.9047e+00
32	TAF070136	173.0850	176.5006	174.5953	7.7033e-01	1.9074e+00
33	TAF080136	182.8058	185.5163	184.4505	5.3317e-01	1.9088e+00
34	TAF090136	191.6191	194.1369	193.0931	4.8165e-01	1.9102e+00
35	TAF100136	203.8340	206.2405	205.2991	5.0792e-01	1.9123e+00
36	TAF105136	211.7846	213.3966	212.5785	3.8781e-01	1.9136e+00
37	TAF110136	220.5344	223.3744	221.5745	6.0678e-01	1.9154e+00
38	TAF115136	227.1643	229.2415	228.1638	4.0977e-01	1.9168e+00
39	TAF120136	233.5768	234.8893	234.2917	3.4204e-01	1.9181e+00
40	TAF125136	239.9420	241.3419	240.7809	3.1842e-01	1.9195e+00
41	TAF130136	244.7388	246.6073	245.7272	3.4138e-01	1.9207e+00
42	TAF120048	243.2659	246.5660	245.0750	7.3866e-01	1.9205e+00
43	TAF130048	252.3559	254.9636	253.3940	6.2214e-01	1.9225e+00
44	TAF120224	229.6963	231.5844	230.9260	4.1749e-01	1.9174e+00
45	TAF130224	243.7289	246.2712	244.7406	5.6878e-01	1.9205e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.2687	2.6554e-01	1.9010e+00
47	EMPTY	40.0646	40.2940	40.1427	1.0978e-01	1.9011e+00
48	TAI130048	82.9297	85.1382	84.0174	5.5275e-01	1.9001e+00
49	TAI130136	302.0216	302.4749	302.1939	1.1746e-01	1.9360e+00
50	TAI130224	172.6985	174.2734	173.4960	4.2064e-01	1.9072e+00
51	TAI130312	241.4512	242.9542	242.3325	3.3089e-01	1.9199e+00
52	TRR130000	155.0105	157.7860	156.3132	6.8766e-01	1.9050e+00
53	TSI000001	44.1508	45.0194	44.6046	2.0653e-01	1.9004e+00
54	TSI000002	109.7589	113.5589	111.5615	8.0738e-01	1.9012e+00
55	TSO000001	41.7051	42.4712	42.1540	1.6115e-01	1.9005e+00
56	TSO000002	61.0579	61.9159	61.4892	2.4457e-01	1.9000e+00
57	TAF020136	113.2644	116.6714	114.8076	9.0024e-01	1.9014e+00
58	EMPTY	42.5851	43.5000	43.1661	2.5395e-01	1.9013e+00
59	TAF130312	271.2192	272.5074	271.7211	2.8704e-01	1.9272e+00
60	EMPTY	4.8389	4.8535	4.8477	3.1195e-03	0.0000e+00
61	EMPTY	4.8193	4.8291	4.8249	2.4184e-03	0.0000e+00
62	EMPTY	4.7998	4.8096	4.8048	1.5566e-03	0.0000e+00
63	EMPTY	4.7900	4.7998	4.7947	1.6972e-03	0.0000e+00
64	EMPTY	2.2607	2.2656	2.2608	6.9053e-04	0.0000e+00
65	EMPTY	2.2705	2.2754	2.2706	6.9053e-04	0.0000e+00
66	EMPTY	2.2754	2.2803	2.2759	1.4797e-03	0.0000e+00
67	EMPTY	2.2803	2.2852	2.2843	1.8950e-03	0.0000e+00
68	EMPTY	2.2852	2.2900	2.2868	2.3365e-03	0.0000e+00
69	EMPTY	2.2949	2.2998	2.2950	6.9053e-04	0.0000e+00
70	EMPTY	2.2998	2.3047	2.3002	1.3381e-03	0.0000e+00
71	EMPTY	2.3096	2.3145	2.3143	9.6655e-04	0.0000e+00
72	EMPTY	2.3145	2.3193	2.3183	2.0432e-03	0.0000e+00
73	EMPTY	2.3242	2.3291	2.3271	2.4344e-03	0.0000e+00
74	EMPTY	2.3291	2.3340	2.3327	2.1635e-03	0.0000e+00
75	EMPTY	2.3389	2.3438	2.3393	1.3381e-03	0.0000e+00
76	EMPTY	2.3438	2.3535	2.3440	1.5314e-03	0.0000e+00
77	EMPTY	2.3535	2.3633	2.3541	1.8821e-03	0.0000e+00
78	EMPTY	2.3633	2.3730	2.3678	1.6624e-03	0.0000e+00
79	EMPTY	2.3779	2.3828	2.3824	1.3381e-03	0.0000e+00
80	PAN020136	-20.3631	-0.2978	-14.4534	6.0689e+00	8.7075e-01
81	PAN050136	-33.1477	-18.6519	-26.0798	4.2086e+00	1.6813e+00
82	PAN070136	-23.5524	-12.6424	-17.3589	2.2319e+00	8.7108e-01
83	PAN080136	-13.9543	-0.2214	-7.7440	3.8226e+00	8.7022e-01
84	PAN090136	-13.3204	2.3198	-7.3710	4.1760e+00	8.7020e-01
85	PAN100136	-11.9428	7.8173	-1.4570	4.5413e+00	8.7001e-01
86	PAN105136	-4.3686	4.7104	-1.1734	1.7632e+00	8.7000e-01
87	PAN110136	-5.6551	0.3721	-2.6141	1.2488e+00	8.7002e-01
88	PAN115136	-7.5479	0.3103	-3.4174	2.5558e+00	8.7004e-01
89	PAN120136	-4.7265	4.7339	-1.7297	2.6038e+00	8.7001e-01
90	PAN125136	-3.3650	-0.6184	-2.1107	6.2728e-01	8.7002e-01
91	PAN130136	-1.3695	-0.3014	-0.9362	2.3297e-01	8.7000e-01
92	PAN120048	-6.9295	-3.4199	-5.9804	7.2709e-01	8.7013e-01
93	PAN130048	-4.0053	-2.8609	-3.5369	2.3780e-01	8.7004e-01
94	PAN120224	-7.4591	-0.2874	-3.8351	1.7723e+00	8.7005e-01
95	PAN130224	-3.7044	-1.4156	-2.9095	4.8623e-01	8.7003e-01
96	PAN120312	-7.5411	-6.2441	-7.0010	2.5831e-01	8.7018e-01
97	PAN130312	-3.1205	-1.8235	-2.4705	2.8138e-01	8.7002e-01
98	PAB000136	39.6492	40.5647	40.0374	2.8479e-01	5.8857e-01
99	PAB100136	42.3895	42.7558	42.5552	8.0566e-02	5.8968e-01
100	PAB125136	42.9661	43.1035	43.0494	4.7779e-02	5.8990e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.0602	40.6471	39.9513	4.5357e-01	7.5662e-01
102	PRV000001	19.4351	19.4351	19.4351	5.7801e-06	7.5157e-01
103	PSR000001	42.9102	43.0323	42.9956	5.6508e-02	7.5766e-01
104	PFM000001	5.7308	6.0054	5.8608	8.4943e-02	5.0021e-01
105	PAN000136	-100.4700	-75.2930	-89.9048	7.8222e+00	4.9251e+00
106	PFM000002	5.8584	5.9758	5.9198	3.1366e-02	2.0055e-01
107	EMPTY	-0.0049	0.0098	0.0040	2.5515e-03	0.0000e+00
108	EMPTY	-10.0000	-8.7354	-9.8369	3.5915e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0029	2.4164e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	145.0872	145.8684	145.4542	1.7036e-01	1.1907e+00
113	VPW000002	169.1256	169.7115	169.3287	1.2453e-01	1.2993e+00
114	VPW000003	209.3112	210.0924	209.6666	1.5630e-01	1.4962e+00
115	VPW000004	149.3239	149.9099	149.5035	1.4680e-01	1.2086e+00
116	VPW000005	198.6779	199.2638	198.9083	1.5630e-01	1.4424e+00
117	VPW000006	208.1881	208.9694	208.5631	1.8441e-01	1.4907e+00
118	IPW000001	756.3079	766.0696	761.4620	2.1876e+00	1.0089e+01
119	IPW000002	1843.6871	1853.4435	1849.2675	2.6448e+00	1.6704e+01
120	IPW000003	1861.3501	1869.1501	1864.6650	1.4341e+00	1.6811e+01
121	IPW000004	530.6115	535.4943	533.5020	1.2394e+00	4.6651e+00
122	IPW000005	355.9026	357.8556	356.7227	4.1192e-01	3.4557e+00
123	IPW000006	374.9530	376.9061	375.5293	3.9075e-01	3.5779e+00
124	EMPTY	-0.0293	-0.0098	-0.0195	4.0673e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0133	3.1257e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0147	3.3439e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.3613e-03	0.0000e+00
128	IHT000001	183.7665	186.5009	185.1025	5.8175e-01	4.4985e+00
129	IHT000002	183.1655	185.5093	184.3843	5.4328e-01	4.4955e+00
130	IHT000003	183.0228	185.5619	184.1947	5.4676e-01	4.4947e+00
131	IHT000004	185.3403	187.4887	186.4731	5.3233e-01	4.5041e+00
132	IHT000005	182.9252	185.4642	184.0463	5.1420e-01	4.4941e+00
133	IHT000006	178.4893	181.0284	179.5283	5.0600e-01	4.4758e+00
134	IHT000007	186.6324	188.7808	187.5426	4.7287e-01	4.5086e+00
135	IHT000008	185.2840	187.0418	185.9637	4.4685e-01	4.5020e+00
136	IHT000009	183.9881	185.9413	184.8202	4.6322e-01	4.4973e+00
137	IHT000010	183.9919	186.7263	185.2692	5.3410e-01	4.4992e+00
138	IHT000011	185.4980	187.8418	186.5957	4.8791e-01	4.5046e+00
139	IHT000012	184.0896	186.4333	185.0348	5.5854e-01	4.4982e+00
140	IHT000013	131.0697	133.0228	131.9995	4.8897e-01	4.3072e+00
141	IHT000014	181.1336	183.0867	182.0790	4.9656e-01	4.4861e+00
142	IHT000015	133.9619	136.3056	134.9267	5.0749e-01	4.3163e+00
143	IHT000016	125.3793	127.9184	126.6020	5.3352e-01	4.2910e+00
144	IHT000017	149.9587	152.8884	151.2242	6.1541e-01	4.3700e+00
145	IHT000018	151.4761	154.7964	152.9136	6.8432e-01	4.3759e+00
146	IHT000019	152.9334	155.0819	154.1288	5.4482e-01	4.3801e+00
147	IHT000020	150.3418	152.8808	151.6387	5.6187e-01	4.3714e+00
148	IHT000021	-3.2227	0.0976	-1.4922	7.6005e-01	4.1000e+00
149	IHT000022	130.4612	132.6097	131.6605	5.3088e-01	4.3062e+00
150	IHT000023	148.7493	150.8977	149.8976	5.4052e-01	4.3654e+00
151	IHT000024	113.4127	115.3659	114.4284	4.9284e-01	4.2567e+00
152	IHT000025	146.6534	148.9971	147.8487	5.5051e-01	4.3584e+00
153	IHT000026	149.4253	151.7691	150.7534	5.3815e-01	4.3684e+00
154	IHT000027	127.3137	129.6575	128.6886	5.0526e-01	4.2972e+00
155	IHT000028	127.7269	130.6566	128.9847	6.5097e-01	4.2981e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.5305	152.2649	150.9484	6.2116e-01	4.3690e+00
157	IHT000030	152.9935	155.7279	154.2397	6.4704e-01	4.3805e+00
158	IHT000031	149.5230	152.0620	150.7808	6.0639e-01	4.3685e+00
159	IHT000032	150.7587	153.2978	152.1494	5.9009e-01	4.3732e+00
160	IHT000033	150.7437	153.2828	152.0757	6.0578e-01	4.3730e+00
161	IHT000034	132.9214	135.2652	133.9683	4.9246e-01	4.3133e+00
162	IHT000035	175.1052	177.4489	176.1989	5.1297e-01	4.4626e+00
163	IHT000036	131.2425	133.7815	132.4847	4.9875e-01	4.3087e+00

Velocity 1 = 6.1843 (ft/sec) (+/- 5.5096 %)
 Velocity 2 = 6.2310 (ft/sec) (+/- 3.7881 %)
 Pressure drop = -3.1755 (psi)
 Tsat in = 267.8451 (deg F) Tsat out = 272.1149 (deg F)
 Phi inner = 200.8383 (kBtu/hr-ft2) (+/- 1.4537 %)
 Phi outer = 201.6163 (kBtu/hr-ft2) (+/- 1.3489 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	83.2845	83.9179	83.5991	1.8347e-01	1.9001e+00
1	TRF000002	83.7642	84.1843	84.0471	1.2538e-01	1.9001e+00
2	TFM000001	86.2433	87.1877	86.7851	2.2676e-01	1.9002e+00
3	TIN000001	86.4096	87.2505	86.8773	1.7165e-01	1.9002e+00
4	TRV000001	88.8512	89.7933	89.3362	2.1936e-01	1.9003e+00
5	TSR000001	198.1781	208.3403	205.6713	2.5821e+00	1.9124e+00
6	EMPTY	38.2273	38.9168	38.4572	1.8765e-01	1.9010e+00
7	TAO050136	236.6762	237.8971	237.5173	2.5051e-01	1.9188e+00
8	TAO070136	240.9508	256.0771	244.3351	2.9340e+00	1.9204e+00
9	TAO080136	251.6381	258.7657	254.1897	1.4670e+00	1.9227e+00
10	TAO090136	260.2137	261.3253	260.7925	2.2977e-01	1.9244e+00
11	TAO100136	275.9983	277.5600	276.8232	3.4858e-01	1.9286e+00
12	TAO105136	277.1235	278.8690	277.9523	4.6519e-01	1.9289e+00
13	EMPTY	24.0994	25.4984	24.7610	3.2405e-01	1.9004e+00
14	TAO115136	291.8264	293.7476	292.8810	3.9533e-01	1.9332e+00
15	EMPTY	31.7686	40.5234	36.2287	2.2687e+00	1.9009e+00
16	TAO125136	302.5166	303.7816	303.4001	2.5425e-01	1.9364e+00
17	EMPTY	44.8706	45.7833	45.3130	1.9432e-01	1.9014e+00
18	EMPTY	41.6693	41.8984	41.7254	9.9507e-02	1.9012e+00
19	TAO130048	295.7048	296.5221	296.1364	1.6730e-01	1.9341e+00
20	TAO120224	288.4303	289.3439	288.9170	2.2248e-01	1.9320e+00
21	EMPTY	39.6057	40.2940	39.9616	1.4099e-01	1.9011e+00
22	TAO120312	304.0392	305.4901	304.5705	2.9442e-01	1.9367e+00
23	TAO130312	300.7305	301.7266	301.1298	2.1790e-01	1.9357e+00
24	EMPTY	39.3761	39.8352	39.5916	1.7158e-01	1.9011e+00
25	TRT070000	224.6746	238.5698	228.7335	2.8066e+00	1.9169e+00
26	TRT100000	294.5891	295.4991	294.9681	2.1353e-01	1.9338e+00
27	TRT120000	298.6853	299.3218	299.0250	1.6358e-01	1.9350e+00
28	TRT125000	300.6193	301.2539	300.9874	1.4242e-01	1.9356e+00
29	EMPTY	40.0646	40.5234	40.2332	1.2189e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7977	1.8352e-01	1.9011e+00
31	TAF050136	152.5688	154.8529	153.6617	5.2197e-01	1.9047e+00
32	TAF070136	173.3803	176.5999	174.9535	6.7457e-01	1.9074e+00
33	TAF080136	183.1931	186.1937	184.7296	7.1666e-01	1.9088e+00
34	TAF090136	192.1040	195.2005	193.2459	5.8005e-01	1.9102e+00
35	TAF100136	204.6039	206.7211	205.5352	4.7242e-01	1.9123e+00
36	TAF105136	211.8783	213.5879	212.6268	3.9671e-01	1.9137e+00
37	TAF110136	220.4416	222.7124	221.5886	6.3320e-01	1.9154e+00
38	TAF115136	227.1639	228.7712	227.9956	4.0368e-01	1.9167e+00
39	TAF120136	233.3904	235.6419	234.3664	3.9196e-01	1.9181e+00
40	TAF125136	239.7554	241.8085	241.0348	3.9082e-01	1.9196e+00
41	TAF130136	245.1132	246.5141	245.8945	3.4094e-01	1.9207e+00
42	TAF120048	243.5465	246.3771	244.8878	6.5959e-01	1.9205e+00
43	TAF130048	252.6362	255.4292	253.7688	6.1191e-01	1.9226e+00
44	TAF120224	229.6973	232.0564	230.9204	5.2859e-01	1.9174e+00
45	TAF130224	242.9744	245.5174	244.2244	5.1792e-01	1.9203e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1991	2.8012e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0974	1.2390e-01	1.9011e+00
48	TAI130048	82.8240	85.6641	84.2177	7.9621e-01	1.9001e+00
49	TAI130136	302.2023	302.8370	302.4635	1.3420e-01	1.9361e+00
50	TAI130224	172.4025	174.5685	173.4920	5.2616e-01	1.9072e+00
51	TAI130312	240.6042	242.2967	241.5621	3.9640e-01	1.9197e+00
52	TRR130000	156.0016	159.0711	157.7935	8.3116e-01	1.9052e+00
53	TSI000001	43.9339	44.9117	44.4727	1.8681e-01	1.9004e+00
54	TSI000002	104.1943	108.4226	106.6141	1.0694e+00	1.9009e+00
55	TSO000001	41.4865	42.5794	42.0039	1.8646e-01	1.9005e+00
56	TSO000002	60.8435	61.7018	61.2158	2.1683e-01	1.9001e+00
57	TAF020136	113.4701	116.9817	115.1083	9.1677e-01	1.9014e+00
58	EMPTY	42.5851	43.5000	43.0426	2.4260e-01	1.9012e+00
59	TAF130312	271.2188	272.4154	271.8087	2.9526e-01	1.9272e+00
60	EMPTY	4.8389	4.8535	4.8455	3.4083e-03	0.0000e+00
61	EMPTY	4.8193	4.8291	4.8227	3.0238e-03	0.0000e+00
62	EMPTY	4.7998	4.8096	4.8023	2.6600e-03	0.0000e+00
63	EMPTY	4.7852	4.7949	4.7908	2.8796e-03	0.0000e+00
64	EMPTY	2.2559	2.2656	2.2598	2.1547e-03	0.0000e+00
65	EMPTY	2.2607	2.2705	2.2693	2.3440e-03	0.0000e+00
66	EMPTY	2.2705	2.2754	2.2746	1.8234e-03	0.0000e+00
67	EMPTY	2.2803	2.2852	2.2824	2.4414e-03	0.0000e+00
68	EMPTY	2.2803	2.2900	2.2853	1.2165e-03	0.0000e+00
69	EMPTY	2.2900	2.2949	2.2935	2.2287e-03	0.0000e+00
70	EMPTY	2.2949	2.3047	2.2991	1.9934e-03	0.0000e+00
71	EMPTY	2.3096	2.3145	2.3119	2.4621e-03	0.0000e+00
72	EMPTY	2.3145	2.3193	2.3159	2.2737e-03	0.0000e+00
73	EMPTY	2.3242	2.3291	2.3246	1.3508e-03	0.0000e+00
74	EMPTY	2.3291	2.3340	2.3301	1.9883e-03	0.0000e+00
75	EMPTY	2.3340	2.3389	2.3385	1.3508e-03	0.0000e+00
76	EMPTY	2.3389	2.3486	2.3433	1.7954e-03	0.0000e+00
77	EMPTY	2.3486	2.3535	2.3530	1.4934e-03	0.0000e+00
78	EMPTY	2.3633	2.3682	2.3658	2.4662e-03	0.0000e+00
79	EMPTY	2.3779	2.3828	2.3807	2.4414e-03	0.0000e+00
80	PAN020136	-20.2868	-0.8319	-12.9346	5.9506e+00	8.7060e-01
81	PAN050136	-34.2158	-17.7363	-26.6580	4.2922e+00	1.6813e+00
82	PAN070136	-21.8740	-13.0239	-16.6891	2.2085e+00	8.7100e-01
83	PAN080136	-13.8780	-0.7554	-6.6565	2.3899e+00	8.7016e-01
84	PAN090136	-13.3204	-1.8763	-10.4586	2.8728e+00	8.7039e-01
85	PAN100136	-8.4333	6.2151	-1.6151	3.8581e+00	8.7001e-01
86	PAN105136	-4.6737	2.4216	-0.8964	1.8909e+00	8.7000e-01
87	PAN110136	-6.7995	1.4402	-2.5317	1.9130e+00	8.7002e-01
88	PAN115136	-7.5479	2.2177	-2.9454	2.6363e+00	8.7003e-01
89	PAN120136	-4.8028	3.4370	-1.7868	2.4477e+00	8.7001e-01
90	PAN125136	-3.6702	-1.6102	-2.6067	4.5655e-01	8.7002e-01
91	PAN130136	-2.2850	-0.5303	-1.2761	3.6994e-01	8.7001e-01
92	PAN120048	-7.0820	-3.5725	-6.1509	6.9262e-01	8.7014e-01
93	PAN130048	-4.3105	-3.1661	-3.7936	2.5412e-01	8.7005e-01
94	PAN120224	-7.0776	-0.6689	-4.3886	1.6766e+00	8.7007e-01
95	PAN130224	-4.0859	-2.0260	-3.5270	3.7030e-01	8.7004e-01
96	PAN120312	-7.3886	-5.6338	-6.7159	3.9480e-01	8.7016e-01
97	PAN130312	-3.5020	-2.5865	-3.1221	2.2106e-01	8.7003e-01
98	PAB000136	39.8781	40.7478	40.3209	2.6829e-01	5.8869e-01
99	PAB100136	42.6642	42.9846	42.8165	7.7835e-02	5.8979e-01
100	PAB125136	43.2408	43.3781	43.2977	3.6824e-02	5.9001e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.0602	40.8913	40.2261	4.2364e-01	7.5671e-01
102	PRV000001	19.8013	20.0455	19.9234	2.4917e-02	7.5165e-01
103	PSR000001	43.1543	43.2764	43.2565	4.5586e-02	7.5776e-01
104	PFM000001	5.6392	6.0970	5.8429	9.3935e-02	5.0021e-01
105	PAN000136	-102.7588	-72.0886	-87.9142	8.3925e+00	4.9249e+00
106	PFM000002	5.8416	6.0597	5.9327	4.6461e-02	2.0055e-01
107	EMPTY	-0.0049	0.0049	0.0011	3.7645e-03	0.0000e+00
108	EMPTY	-10.0000	-8.1445	-9.8013	4.0594e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0037	2.1215e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.6965	145.8684	145.3262	3.2698e-01	1.1901e+00
113	VPW000002	168.7350	169.5162	169.3168	1.6673e-01	1.2993e+00
114	VPW000003	209.3112	210.0924	209.6779	1.9787e-01	1.4963e+00
115	VPW000004	148.7380	150.1052	149.4713	3.2519e-01	1.2085e+00
116	VPW000005	198.0919	199.4591	198.7814	3.4550e-01	1.4417e+00
117	VPW000006	207.7975	208.9694	208.4950	2.8749e-01	1.4903e+00
118	IPW000001	760.2125	769.9742	765.6313	2.1188e+00	1.0109e+01
119	IPW000002	1841.7358	1851.4922	1846.5139	2.4248e+00	1.6685e+01
120	IPW000003	1853.5500	1865.2501	1860.4746	2.6120e+00	1.6782e+01
121	IPW000004	530.6115	536.4709	533.9895	1.1870e+00	4.6686e+00
122	IPW000005	354.9261	358.3438	356.5701	7.7641e-01	3.4547e+00
123	IPW000006	372.9999	376.4178	374.6442	6.8833e-01	3.5721e+00
124	EMPTY	-0.0293	-0.0146	-0.0196	3.7940e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.3953e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0156	3.8576e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0148	3.4468e-03	0.0000e+00
128	IHT000001	183.9618	186.1103	184.9863	5.5606e-01	4.4980e+00
129	IHT000002	183.3609	185.3140	184.3295	5.2885e-01	4.4953e+00
130	IHT000003	183.2181	185.5619	184.1748	5.4845e-01	4.4947e+00
131	IHT000004	185.3403	187.8793	186.4484	5.6577e-01	4.5040e+00
132	IHT000005	182.9252	185.6595	184.0812	5.6920e-01	4.4943e+00
133	IHT000006	178.4893	181.0284	179.5934	5.9742e-01	4.4761e+00
134	IHT000007	186.6324	188.9761	187.5850	5.7861e-01	4.5087e+00
135	IHT000008	185.0887	187.2371	186.0334	5.5579e-01	4.5023e+00
136	IHT000009	183.7928	186.1366	184.8850	5.5375e-01	4.4976e+00
137	IHT000010	183.9919	186.3356	185.2275	5.5298e-01	4.4990e+00
138	IHT000011	185.3027	187.4512	186.5663	6.1260e-01	4.5045e+00
139	IHT000012	183.6989	186.4333	185.0701	6.8648e-01	4.4983e+00
140	IHT000013	130.4838	133.0228	132.0065	6.5750e-01	4.3073e+00
141	IHT000014	180.7429	183.0867	182.0026	6.2156e-01	4.4858e+00
142	IHT000015	133.5712	136.1103	134.9385	6.2657e-01	4.3163e+00
143	IHT000016	125.1840	128.1137	126.5951	6.1540e-01	4.2910e+00
144	IHT000017	149.3727	152.3024	150.5964	6.5361e-01	4.3678e+00
145	IHT000018	151.6714	154.4058	152.8672	5.8950e-01	4.3757e+00
146	IHT000019	152.7381	155.6678	153.9140	6.7126e-01	4.3794e+00
147	IHT000020	150.3418	153.0762	151.3941	6.6690e-01	4.3706e+00
148	IHT000021	-3.2227	0.2930	-1.8196	7.6446e-01	4.1000e+00
149	IHT000022	129.8753	133.0003	131.3183	6.4755e-01	4.3052e+00
150	IHT000023	148.5539	151.0930	149.5902	6.0226e-01	4.3644e+00
151	IHT000024	113.2174	115.5612	114.1581	5.8955e-01	4.2560e+00
152	IHT000025	146.6534	149.1925	147.5542	6.3140e-01	4.3574e+00
153	IHT000026	149.2300	151.9644	150.4975	6.4053e-01	4.3675e+00
154	IHT000027	127.1184	129.6575	128.4297	6.9053e-01	4.2964e+00
155	IHT000028	126.7503	130.0706	128.8151	6.8475e-01	4.2976e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.1399	151.8743	150.8378	6.2936e-01	4.3687e+00
157	IHT000030	152.4076	155.3373	154.1335	6.4820e-01	4.3801e+00
158	IHT000031	149.1323	151.6714	150.6669	6.6473e-01	4.3681e+00
159	IHT000032	150.5634	153.1025	152.0502	7.1186e-01	4.3729e+00
160	IHT000033	150.5484	153.0874	151.9793	7.0577e-01	4.3726e+00
161	IHT000034	132.7261	134.8745	133.8980	6.3913e-01	4.3131e+00
162	IHT000035	174.7146	177.4489	176.1255	6.4070e-01	4.4623e+00
163	IHT000036	130.8519	133.5862	132.4383	6.3368e-01	4.3086e+00

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Velocity 1 = 0.009200 (ft/sec)

Velocity 2 = 0.006800 (ft/sec)

Pressure Drop = 0.071900 (psi)

Tsat in = 0.420807 (deg F) Tsat out = 0.346405 (deg F)

Phi inner = 0.458099 (kBtu/hr-ft2) Phi outer = 0.000198 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1161	0.1391
1	TRF000002	0.1317	0.1569
2	TFM000001	0.3254	0.3764
3	TIN000001	0.3771	0.4360
4	TRV000001	0.9837	1.1134
5	TSR000001	1.9188	0.9417
6	EMPTY	0.0229	0.0595
7	TAO050136	0.1299	0.0547
8	TAO070136	0.2007	0.0822
9	TAO080136	0.0826	0.0325
10	TAO090136	1.3568	0.5176
11	TAO100136	0.0846	0.0306
12	TAO105136	0.1986	0.0715
13	EMPTY	2.7243	9.9118
14	TAO115136	0.3136	0.1072
15	EMPTY	1.2709	3.3891
16	TAO125136	0.1049	0.0346
17	EMPTY	0.0049	0.0108
18	EMPTY	0.0378	0.0907
19	TAO130048	0.2592	0.0876
20	TAO120224	0.0024	0.0008
21	EMPTY	0.0254	0.0636
22	TAO120312	0.3299	0.1084
23	TAO130312	0.1911	0.0635
24	EMPTY	0.0548	0.1386
25	TRT070000	0.6174	0.2707
26	TRT100000	0.0714	0.0242
27	TRT120000	0.2393	0.0801
28	TRT125000	0.2138	0.0711
29	EMPTY	0.0058	0.0144
30	EMPTY	0.0007	0.0018
31	TAF050136	0.5030	0.3284
32	TAF070136	0.3582	0.2052
33	TAF080136	0.2791	0.1513
34	TAF090136	0.1528	0.0791
35	TAF100136	0.2361	0.1150
36	TAF105136	0.0483	0.0227
37	TAF110136	0.0141	0.0064
38	TAF115136	0.1682	0.0737
39	TAF120136	0.0747	0.0319
40	TAF125136	0.2539	0.1055
41	TAF130136	0.1673	0.0681
42	TAF120048	0.1872	0.0764
43	TAF130048	0.3748	0.1479
44	TAF120224	0.0056	0.0024
45	TAF130224	0.5162	0.2109

#	Name	Abs Diff	%Diff
46	EMPTY	0.0696	0.1819
47	EMPTY	0.0453	0.1128
48	TAI130048	0.2003	0.2384
49	TAI130136	0.2696	0.0892
50	TAI130224	0.0040	0.0023
51	TAI130312	0.7704	0.3179
52	TRR130000	1.4803	0.9470
53	TSI000001	0.1319	0.2957
54	TSI000002	4.9474	4.4347
55	TSO000001	0.1501	0.3561
56	TSO000002	0.2734	0.4446
57	TAF020136	0.3007	0.2619
58	EMPTY	0.1235	0.2861
59	TAF130312	0.0876	0.0322
60	EMPTY	0.0022	0.0454
61	EMPTY	0.0022	0.0456
62	EMPTY	0.0025	0.0520
63	EMPTY	0.0039	0.0813
64	EMPTY	0.0010	0.0442
65	EMPTY	0.0013	0.0573
66	EMPTY	0.0013	0.0571
67	EMPTY	0.0019	0.0832
68	EMPTY	0.0015	0.0656
69	EMPTY	0.0015	0.0654
70	EMPTY	0.0011	0.0478
71	EMPTY	0.0024	0.1037
72	EMPTY	0.0024	0.1035
73	EMPTY	0.0025	0.1074
74	EMPTY	0.0026	0.1115
75	EMPTY	0.0008	0.0342
76	EMPTY	0.0007	0.0299
77	EMPTY	0.0011	0.0467
78	EMPTY	0.0020	0.0845
79	EMPTY	0.0017	0.0714
80	PAN020136	1.5188	10.5083
81	PAN050136	0.5782	2.2170
82	PAN070136	0.6698	3.8585
83	PAN080136	1.0875	14.0431
84	PAN090136	3.0876	41.8885
85	PAN100136	0.1581	10.8511
86	PAN105136	0.2770	23.6066
87	PAN110136	0.0824	3.1521
88	PAN115136	0.4720	13.8117
89	PAN120136	0.0571	3.3012
90	PAN125136	0.4960	23.4993
91	PAN130136	0.3399	36.3063
92	PAN120048	0.1705	2.8510
93	PAN130048	0.2567	7.2578
94	PAN120224	0.5535	14.4325
95	PAN130224	0.6175	21.2236
96	PAN120312	0.2851	4.0723
97	PAN130312	0.6516	26.3752
98	PAB000136	0.2835	0.7081
99	PAB100136	0.2613	0.6140
100	PAB125136	0.2483	0.5768

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2748	0.6878
102	PRV000001	0.4883	2.5125
103	PSR000001	0.2609	0.6068
104	PFM000001	0.0179	0.3054
105	PAN000136	1.9906	2.2141
106	PFM000002	0.0129	0.2179
107	EMPTY	0.0029	72.5000
108	EMPTY	0.0356	0.3619
109	EMPTY	0.0008	27.5862
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.1280	0.0880
113	VPW000002	0.0119	0.0070
114	VPW000003	0.0113	0.0054
115	VPW000004	0.0322	0.0215
116	VPW000005	0.1269	0.0638
117	VPW000006	0.0681	0.0327
118	IPW000001	4.1693	0.5475
119	IPW000002	2.7535	0.1489
120	IPW000003	4.1904	0.2247
121	IPW000004	0.4875	0.0914
122	IPW000005	0.1526	0.0428
123	IPW000006	0.8851	0.2357
124	EMPTY	0.0001	0.5128
125	EMPTY	0.0001	0.7519
126	EMPTY	0.0009	6.1224
127	EMPTY	0.0015	9.2025
128	IHT000001	0.1162	0.0628
129	IHT000002	0.0548	0.0297
130	IHT000003	0.0199	0.0108
131	IHT000004	0.0247	0.0132
132	IHT000005	0.0349	0.0190
133	IHT000006	0.0651	0.0363
134	IHT000007	0.0424	0.0226
135	IHT000008	0.0697	0.0375
136	IHT000009	0.0648	0.0351
137	IHT000010	0.0417	0.0225
138	IHT000011	0.0294	0.0158
139	IHT000012	0.0353	0.0191
140	IHT000013	0.0070	0.0053
141	IHT000014	0.0764	0.0420
142	IHT000015	0.0118	0.0088
143	IHT000016	0.0069	0.0054
144	IHT000017	0.6278	0.4151
145	IHT000018	0.0464	0.0303
146	IHT000019	0.2148	0.1394
147	IHT000020	0.2446	0.1613
148	IHT000021	0.3274	21.9408
149	IHT000022	0.3422	0.2599
150	IHT000023	0.3074	0.2051
151	IHT000024	0.2703	0.2362
152	IHT000025	0.2945	0.1992
153	IHT000026	0.2559	0.1698
154	IHT000027	0.2589	0.2012
155	IHT000028	0.1696	0.1315

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1106	0.0733
157	IHT000030	0.1062	0.0689
158	IHT000031	0.1139	0.0755
159	IHT000032	0.0992	0.0652
160	IHT000033	0.0964	0.0634
161	IHT000034	0.0703	0.0525
162	IHT000035	0.0734	0.0417
163	IHT000036	0.0464	0.0350

Velocity 1 = 6.3779 (ft/sec) (+/- 5.3108 %)
 Velocity 2 = 6.4081 (ft/sec) (+/- 3.7553 %)
 Pressure drop = -3.2193 (psi)
 Tsat in = 267.3588 (deg F) Tsat out = 271.6378 (deg F)
 Phi inner = 200.5748 (kBtu/hr-ft2) (+/- 1.4539 %)
 Phi outer = 200.5809 (kBtu/hr-ft2) (+/- 1.3499 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	83.4957	84.1290	83.7659	1.5981e-01	1.9001e+00
1	TRF000002	83.9742	84.6043	84.2725	1.3476e-01	1.9001e+00
2	TFM000001	86.4535	87.5018	87.0638	2.1765e-01	1.9002e+00
3	TIN000001	86.9351	87.5653	87.1893	1.6171e-01	1.9002e+00
4	TRV000001	88.5388	89.4803	89.0641	2.3576e-01	1.9002e+00
5	TSR000001	202.4040	207.2883	204.0705	1.3014e+00	1.9121e+00
6	EMPTY	37.9974	38.6870	38.4756	2.1197e-01	1.9010e+00
7	TAO050136	235.2707	236.1167	235.7352	2.1514e-01	1.9184e+00
8	TAO070136	238.2103	253.2683	242.4620	3.3456e+00	1.9199e+00
9	TAO080136	247.6451	258.4894	251.7109	2.0066e+00	1.9221e+00
10	TAO090136	257.8959	259.5659	258.4137	3.1489e-01	1.9238e+00
11	TAO100136	273.6989	274.9872	274.3118	2.8540e-01	1.9279e+00
12	TAO105136	274.1799	275.9286	275.0804	3.3946e-01	1.9281e+00
13	EMPTY	12.5961	14.7195	13.7479	5.1693e-01	1.9001e+00
14	TAO115136	289.3513	290.6343	290.0532	2.9705e-01	1.9323e+00
15	EMPTY	31.0739	43.0426	37.3563	3.4955e+00	1.9009e+00
16	TAO125136	301.0740	301.9785	301.6000	2.3378e-01	1.9358e+00
17	EMPTY	44.8706	45.7833	45.3818	2.1894e-01	1.9014e+00
18	EMPTY	41.6693	41.8984	41.7335	1.0388e-01	1.9012e+00
19	TAO130048	294.5278	295.3447	294.9037	1.5357e-01	1.9338e+00
20	TAO120224	285.7791	286.7856	286.2788	2.1330e-01	1.9313e+00
21	EMPTY	39.6057	40.0646	39.8903	1.0932e-01	1.9011e+00
22	TAO120312	302.4052	303.6762	303.0464	2.5828e-01	1.9362e+00
23	TAO130312	298.7383	299.7364	299.2590	2.0949e-01	1.9351e+00
24	EMPTY	39.1464	39.8352	39.5460	1.6599e-01	1.9011e+00
25	TRT070000	222.5671	231.9204	225.3834	1.9736e+00	1.9162e+00
26	TRT100000	287.6707	288.5836	288.1837	2.2648e-01	1.9318e+00
27	TRT120000	296.4145	297.2331	296.8094	1.8151e-01	1.9343e+00
28	TRT125000	299.0875	299.9017	299.5092	1.7871e-01	1.9352e+00
29	EMPTY	40.0646	40.5234	40.2252	1.1587e-01	1.9011e+00
30	EMPTY	39.3761	40.2940	39.8122	2.0343e-01	1.9011e+00
31	TAF050136	150.9801	153.3644	152.1864	5.5592e-01	1.9045e+00
32	TAF070136	171.5253	174.4546	172.9219	6.7680e-01	1.9071e+00
33	TAF080136	180.9688	184.2616	182.5520	6.7711e-01	1.9085e+00
34	TAF090136	189.8742	192.0074	190.9313	5.1756e-01	1.9098e+00
35	TAF100136	201.7125	204.1225	202.9103	4.9881e-01	1.9119e+00
36	TAF105136	208.2740	210.7445	209.7626	4.3099e-01	1.9131e+00
37	TAF110136	217.0302	220.1589	218.4695	6.8527e-01	1.9148e+00
38	TAF115136	224.0426	225.7472	224.8366	4.2467e-01	1.9161e+00
39	TAF120136	230.1035	231.8897	231.1096	3.3237e-01	1.9174e+00
40	TAF125136	236.8636	238.5469	237.6691	4.4473e-01	1.9188e+00
41	TAF130136	242.4018	244.2723	243.2608	4.2420e-01	1.9201e+00
42	TAF120048	240.0499	242.6970	241.2808	5.9066e-01	1.9197e+00
43	TAF130048	250.3982	253.4745	252.0451	6.8152e-01	1.9222e+00
44	TAF120224	226.5789	228.8473	227.6968	4.8006e-01	1.9167e+00
45	TAF130224	239.0096	241.7468	240.3294	5.6149e-01	1.9194e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.2457	2.7803e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0922	1.2812e-01	1.9011e+00
48	TAI130048	83.9818	86.8184	85.2244	7.8849e-01	1.9002e+00
49	TAI130136	301.5706	302.3854	301.9854	1.7561e-01	1.9359e+00
50	TAI130224	174.1750	176.3381	175.3218	5.1171e-01	1.9075e+00
51	TAI130312	250.0766	252.0394	251.1177	5.8070e-01	1.9220e+00
52	TRR130000	156.2007	158.2820	157.0041	5.3333e-01	1.9051e+00
53	TSI000001	44.2601	45.1286	44.6013	2.0342e-01	1.9004e+00
54	TSI000002	108.1139	111.7129	109.9512	9.7560e-01	1.9011e+00
55	TSO000001	41.5953	42.5779	42.0823	2.0391e-01	1.9005e+00
56	TSO000002	60.3077	61.4871	60.8675	2.8522e-01	1.9001e+00
57	TAF020136	112.9514	116.7731	114.7190	9.0626e-01	1.9013e+00
58	EMPTY	42.8139	43.5000	43.0975	2.5542e-01	1.9013e+00
59	TAF130312	267.0730	270.0233	268.3508	5.9897e-01	1.9263e+00
60	EMPTY	4.7363	4.7705	4.7521	9.4907e-03	0.0000e+00
61	EMPTY	4.7168	4.7412	4.7307	7.4712e-03	0.0000e+00
62	EMPTY	4.6973	4.7217	4.7126	6.6913e-03	0.0000e+00
63	EMPTY	4.6875	4.7119	4.7036	5.9394e-03	0.0000e+00
64	EMPTY	2.2119	2.2217	2.2200	2.5362e-03	0.0000e+00
65	EMPTY	2.2266	2.2314	2.2305	1.9730e-03	0.0000e+00
66	EMPTY	2.2314	2.2363	2.2354	1.8950e-03	0.0000e+00
67	EMPTY	2.2363	2.2461	2.2447	2.4244e-03	0.0000e+00
68	EMPTY	2.2412	2.2510	2.2473	2.3261e-03	0.0000e+00
69	EMPTY	2.2510	2.2607	2.2559	1.7086e-03	0.0000e+00
70	EMPTY	2.2607	2.2656	2.2609	9.6655e-04	0.0000e+00
71	EMPTY	2.2705	2.2754	2.2752	9.6655e-04	0.0000e+00
72	EMPTY	2.2754	2.2803	2.2799	1.3381e-03	0.0000e+00
73	EMPTY	2.2852	2.2900	2.2895	1.6028e-03	0.0000e+00
74	EMPTY	2.2949	2.2949	2.2949	0.0000e+00	0.0000e+00
75	EMPTY	2.2998	2.3047	2.3029	2.3675e-03	0.0000e+00
76	EMPTY	2.3047	2.3096	2.3070	2.4642e-03	0.0000e+00
77	EMPTY	2.3145	2.3193	2.3183	2.0432e-03	0.0000e+00
78	EMPTY	2.3291	2.3340	2.3297	1.6028e-03	0.0000e+00
79	EMPTY	2.3438	2.3486	2.3449	2.1065e-03	0.0000e+00
80	PAN020136	-20.2868	-2.2052	-12.4667	4.0778e+00	8.7056e-01
81	PAN050136	-33.9106	-16.6682	-25.7136	4.5642e+00	1.6812e+00
82	PAN070136	-24.5443	-10.6588	-17.5267	3.5636e+00	8.7110e-01
83	PAN080136	-13.5728	0.4653	-6.4165	3.7517e+00	8.7015e-01
84	PAN090136	-13.3204	-2.4104	-9.6751	3.3000e+00	8.7034e-01
85	PAN100136	-6.9837	6.5966	-0.8878	3.2008e+00	8.7000e-01
86	PAN105136	-6.2759	1.3535	-1.9333	1.5433e+00	8.7001e-01
87	PAN110136	-3.7478	1.9743	-0.7998	1.4058e+00	8.7000e-01
88	PAN115136	-6.6324	0.6155	-3.1473	1.6828e+00	8.7004e-01
89	PAN120136	-4.4213	1.3007	-2.1874	1.3470e+00	8.7002e-01
90	PAN125136	-4.0516	-1.8391	-3.0018	4.4099e-01	8.7003e-01
91	PAN130136	-3.9635	-2.2850	-3.1746	3.8244e-01	8.7004e-01
92	PAN120048	-6.7006	-4.1829	-6.0643	4.8976e-01	8.7013e-01
93	PAN130048	-6.5993	-5.4549	-6.1370	2.3849e-01	8.7014e-01
94	PAN120224	-7.1539	-0.8215	-4.4714	1.4076e+00	8.7007e-01
95	PAN130224	-6.2984	-4.4674	-5.4562	4.7432e-01	8.7011e-01
96	PAN120312	-7.6174	-6.2441	-6.8957	2.6795e-01	8.7017e-01
97	PAN130312	-5.7908	-5.1042	-5.3834	1.7950e-01	8.7010e-01
98	PAB000136	39.6034	40.4731	39.9934	2.5026e-01	5.8855e-01
99	PAB100136	42.2980	42.6642	42.4774	7.8930e-02	5.8964e-01
100	PAB125136	42.8746	43.0577	42.9560	4.9190e-02	5.8986e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3043	40.4030	39.9000	3.5537e-01	7.5660e-01
102	PRV000001	19.5572	19.6793	19.6597	4.5206e-02	7.5161e-01
103	PSR000001	43.1543	43.2764	43.2617	4.0071e-02	7.5776e-01
104	PFM000001	6.0054	6.3716	6.2196	9.3604e-02	5.0024e-01
105	PAN000136	-100.4700	-73.0042	-89.1266	7.4792e+00	4.9250e+00
106	PFM000002	6.2108	6.3450	6.2796	3.6864e-02	2.0062e-01
107	EMPTY	-0.0049	0.0049	0.0010	4.4117e-03	0.0000e+00
108	EMPTY	-10.0000	-7.4951	-9.4471	6.8096e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0034	2.2603e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	145.0872	146.0637	145.3527	1.8825e-01	1.1902e+00
113	VPW000002	169.1256	169.5162	169.2310	1.0595e-01	1.2989e+00
114	VPW000003	209.3112	209.8971	209.5846	1.4227e-01	1.4958e+00
115	VPW000004	149.1286	150.1052	149.5543	2.0764e-01	1.2088e+00
116	VPW000005	198.2873	199.0685	198.7325	1.7664e-01	1.4415e+00
117	VPW000006	208.1881	208.9694	208.4772	1.6384e-01	1.4902e+00
118	IPW000001	760.2125	777.7836	769.5835	4.1556e+00	1.0128e+01
119	IPW000002	1822.2231	1831.9795	1826.0085	1.9872e+00	1.6544e+01
120	IPW000003	1853.5500	1863.3000	1858.6587	2.5192e+00	1.6769e+01
121	IPW000004	533.0529	536.9592	534.9278	8.6765e-01	4.6753e+00
122	IPW000005	354.9261	357.3673	356.1466	6.2579e-01	3.4520e+00
123	IPW000006	373.4882	375.4413	374.3867	3.9901e-01	3.5704e+00
124	EMPTY	-0.0293	-0.0146	-0.0201	3.6433e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	3.3249e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0159	3.2434e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.5962e-03	0.0000e+00
128	IHT000001	183.7665	186.1103	185.0908	5.1944e-01	4.4984e+00
129	IHT000002	183.1655	185.5093	184.3804	5.2835e-01	4.4955e+00
130	IHT000003	183.0228	185.3666	184.2221	5.3235e-01	4.4949e+00
131	IHT000004	185.3403	187.4887	186.4457	5.0780e-01	4.5040e+00
132	IHT000005	182.9252	185.0736	184.0502	4.6782e-01	4.4942e+00
133	IHT000006	178.2940	180.6378	179.5401	4.8310e-01	4.4759e+00
134	IHT000007	186.4370	188.7808	187.5465	5.1364e-01	4.5086e+00
135	IHT000008	184.8933	187.2371	185.9833	4.8982e-01	4.5021e+00
136	IHT000009	183.9881	186.1366	184.8515	5.3972e-01	4.4974e+00
137	IHT000010	183.6013	186.7263	185.2497	5.9210e-01	4.4991e+00
138	IHT000011	184.7168	187.6465	186.5644	5.5553e-01	4.5045e+00
139	IHT000012	183.3083	186.2380	185.0231	5.7085e-01	4.4981e+00
140	IHT000013	130.6791	133.2181	132.0542	5.4098e-01	4.3074e+00
141	IHT000014	180.5476	183.2820	181.9423	5.3235e-01	4.4856e+00
142	IHT000015	133.5712	136.3056	135.0166	5.8394e-01	4.3166e+00
143	IHT000016	125.1840	127.5278	126.6099	5.0878e-01	4.2910e+00
144	IHT000017	149.3727	152.3024	150.7321	5.9837e-01	4.3683e+00
145	IHT000018	151.6714	154.0152	152.9409	5.7757e-01	4.3760e+00
146	IHT000019	152.7381	155.0819	153.8515	5.5559e-01	4.3792e+00
147	IHT000020	150.1465	152.4002	151.3730	5.7051e-01	4.3705e+00
148	IHT000021	-3.2227	-0.2930	-1.7383	6.7312e-01	4.1000e+00
149	IHT000022	130.2659	132.6097	131.3949	5.1643e-01	4.3054e+00
150	IHT000023	148.5539	150.7024	149.6124	5.2953e-01	4.3644e+00
151	IHT000024	113.2174	115.3659	114.1705	5.1090e-01	4.2560e+00
152	IHT000025	146.4581	148.8018	147.4932	5.1183e-01	4.3572e+00
153	IHT000026	149.4253	151.7691	150.4136	5.1055e-01	4.3672e+00
154	IHT000027	127.3137	129.4621	128.4074	5.2792e-01	4.2961e+00
155	IHT000028	127.7269	130.6566	128.9457	5.6711e-01	4.2980e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.7258	152.2649	150.9132	5.4368e-01	4.3689e+00
157	IHT000030	152.9935	155.3373	154.1850	5.5137e-01	4.3803e+00
158	IHT000031	149.5230	151.8667	150.7105	5.5501e-01	4.3682e+00
159	IHT000032	150.7587	153.4931	152.0478	6.0361e-01	4.3729e+00
160	IHT000033	150.7437	153.4781	151.9585	5.9750e-01	4.3725e+00
161	IHT000034	132.9214	135.0699	133.9956	5.0571e-01	4.3134e+00
162	IHT000035	175.1052	177.4489	176.0270	5.2354e-01	4.4619e+00
163	IHT000036	131.4378	134.1722	132.5160	5.0260e-01	4.3088e+00

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Velocity 1 = 6.3708 (ft/sec) (+/- 5.3178 %)
Velocity 2 = 6.3929 (ft/sec) (+/- 3.7580 %)
Pressure drop = -3.1677 (psi)
Tsat in = 267.4514 (deg F) Tsat out = 271.6506 (deg F)
Phi inner = 199.9940 (kBtu/hr-ft2) (+/- 1.4543 %)
Phi outer = 202.4927 (kBtu/hr-ft2) (+/- 1.3476 %)
D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	83.4957	84.1290	83.8619	1.7648e-01	1.9001e+00
1	TRF0000002	84.1843	84.6043	84.3943	8.5726e-02	1.9001e+00
2	TFM0000001	86.9778	87.8158	87.3970	1.7506e-01	1.9002e+00
3	TIN0000001	86.9346	87.6705	87.3401	1.6474e-01	1.9002e+00
4	TRV0000001	89.1664	90.2111	89.6143	2.2670e-01	1.9003e+00
5	TSR0000001	189.3021	205.5683	198.5303	4.2558e+00	1.9111e+00
6	EMPTY	37.9974	38.9168	38.4149	2.4680e-01	1.9010e+00
7	TAO050136	234.8018	235.6484	235.2378	2.0630e-01	1.9183e+00
8	TAO070136	238.7775	251.3929	241.5760	2.3768e+00	1.9197e+00
9	TAO080136	247.7401	257.2901	251.6338	1.8256e+00	1.9221e+00
10	TAO090136	256.1319	257.1544	256.7312	2.5452e-01	1.9233e+00
11	TAO100136	273.3308	274.4353	273.9037	2.3190e-01	1.9278e+00
12	TAO105136	274.2725	275.7447	274.7663	3.0275e-01	1.9280e+00
13	EMPTY	8.5724	14.7195	12.2670	1.5961e+00	1.9001e+00
14	TAO115136	289.1673	290.1756	289.6612	2.2744e-01	1.9322e+00
15	EMPTY	31.0739	40.7527	36.1767	2.3977e+00	1.9009e+00
16	TAO125136	300.8033	301.7984	301.3164	2.2188e-01	1.9357e+00
17	EMPTY	44.8706	45.7833	45.4108	2.0136e-01	1.9014e+00
18	EMPTY	41.4403	41.8984	41.6927	1.2584e-01	1.9012e+00
19	TAO130048	294.1656	294.8019	294.5585	1.5776e-01	1.9337e+00
20	TAO120224	285.5045	286.4199	285.9998	2.2331e-01	1.9312e+00
21	EMPTY	39.6057	40.0646	39.8820	1.1454e-01	1.9011e+00
22	TAO120312	301.8604	303.2223	302.6333	3.0174e-01	1.9361e+00
23	TAO130312	298.4666	299.1024	298.7689	1.7019e-01	1.9349e+00
24	EMPTY	39.1464	39.8352	39.5682	1.7120e-01	1.9011e+00
25	TRT070000	220.8415	229.6347	225.0188	2.0217e+00	1.9161e+00
26	TRT100000	287.5795	288.4923	288.0549	2.1721e-01	1.9318e+00
27	TRT120000	296.3235	296.9608	296.6450	1.4632e-01	1.9343e+00
28	TRT125000	299.0888	299.6320	299.3104	1.4307e-01	1.9351e+00
29	EMPTY	40.0646	40.5234	40.2098	1.2115e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7743	2.1353e-01	1.9011e+00
31	TAF050136	150.7797	152.8681	151.8910	4.8128e-01	1.9045e+00
32	TAF070136	171.2309	173.9675	172.6958	6.9572e-01	1.9071e+00
33	TAF080136	180.7749	184.5528	181.9189	7.3874e-01	1.9084e+00
34	TAF090136	189.4864	192.2011	190.5019	4.8332e-01	1.9098e+00
35	TAF100136	201.0369	203.0628	202.2755	4.4216e-01	1.9118e+00
36	TAF105136	207.8957	210.6504	209.4859	4.7650e-01	1.9131e+00
37	TAF110136	216.7442	219.9706	218.1066	7.2436e-01	1.9147e+00
38	TAF115136	223.3807	225.3688	224.3218	3.8048e-01	1.9160e+00
39	TAF120136	229.5388	231.2338	230.6282	3.6275e-01	1.9173e+00
40	TAF125136	236.5841	237.8925	237.1581	3.4490e-01	1.9187e+00
41	TAF130136	241.9340	243.6185	242.7098	4.2169e-01	1.9200e+00
42	TAF120048	239.6702	241.6568	240.7766	4.9938e-01	1.9195e+00
43	TAF130048	249.5578	252.1704	250.9772	5.1870e-01	1.9219e+00
44	TAF120224	226.2950	228.0928	227.2008	4.5978e-01	1.9166e+00
45	TAF130224	237.6846	240.3315	238.9966	4.9057e-01	1.9191e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1194	2.7000e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0085	1.1969e-01	1.9011e+00
48	TAI130048	81.8764	84.9286	83.0971	7.9197e-01	1.9001e+00
49	TAI130136	301.5714	302.2054	301.9296	1.4189e-01	1.9359e+00
50	TAI130224	176.3381	178.5963	177.4647	4.8601e-01	1.9078e+00
51	TAI130312	262.8380	264.5080	263.8284	4.8733e-01	1.9251e+00
52	TRR130000	155.2116	157.7873	156.5984	6.1402e-01	1.9050e+00
53	TSI000001	43.7184	44.5874	44.1949	1.8524e-01	1.9004e+00
54	TSI000002	107.2906	111.3028	109.0318	1.1089e+00	1.9010e+00
55	TSO000001	41.2649	42.1406	41.7744	1.8491e-01	1.9005e+00
56	TSO000002	60.2002	61.0583	60.5813	1.9835e-01	1.9001e+00
57	TAF020136	112.8471	116.5667	114.5331	8.1106e-01	1.9013e+00
58	EMPTY	42.5851	43.5000	43.0986	2.4936e-01	1.9013e+00
59	TAF130312	266.6115	269.1942	267.6884	5.7983e-01	1.9261e+00
60	EMPTY	4.7217	4.7461	4.7317	5.2180e-03	0.0000e+00
61	EMPTY	4.7021	4.7168	4.7093	3.3210e-03	0.0000e+00
62	EMPTY	4.6826	4.6973	4.6905	2.7865e-03	0.0000e+00
63	EMPTY	4.6729	4.6875	4.6812	2.8191e-03	0.0000e+00
64	EMPTY	2.1973	2.2021	2.2011	2.0584e-03	0.0000e+00
65	EMPTY	2.2070	2.2119	2.2109	1.9883e-03	0.0000e+00
66	EMPTY	2.2119	2.2168	2.2160	1.8234e-03	0.0000e+00
67	EMPTY	2.2217	2.2266	2.2230	2.1781e-03	0.0000e+00
68	EMPTY	2.2266	2.2314	2.2269	1.1827e-03	0.0000e+00
69	EMPTY	2.2314	2.2412	2.2356	1.9934e-03	0.0000e+00
70	EMPTY	2.2412	2.2412	2.2412	0.0000e+00	0.0000e+00
71	EMPTY	2.2510	2.2559	2.2547	2.1215e-03	0.0000e+00
72	EMPTY	2.2559	2.2607	2.2586	2.4414e-03	0.0000e+00
73	EMPTY	2.2656	2.2705	2.2664	1.8234e-03	0.0000e+00
74	EMPTY	2.2705	2.2754	2.2725	2.4247e-03	0.0000e+00
75	EMPTY	2.2803	2.2852	2.2804	6.9754e-04	0.0000e+00
76	EMPTY	2.2852	2.2900	2.2853	6.9754e-04	0.0000e+00
77	EMPTY	2.2900	2.2998	2.2949	1.4095e-03	0.0000e+00
78	EMPTY	2.2998	2.3096	2.3089	1.9934e-03	0.0000e+00
79	EMPTY	2.3193	2.3242	2.3240	9.7615e-04	0.0000e+00
80	PAN020136	-20.2868	0.0836	-13.1541	6.6399e+00	8.7062e-01
81	PAN050136	-33.7581	-18.0415	-25.3408	4.4243e+00	1.6812e+00
82	PAN070136	-22.2554	-11.8795	-16.7483	2.1794e+00	8.7101e-01
83	PAN080136	-13.9543	-1.0606	-8.0096	2.5590e+00	8.7023e-01
84	PAN090136	-13.3204	-1.3423	-8.6961	3.5222e+00	8.7027e-01
85	PAN100136	-6.9837	6.1388	-1.6120	3.1591e+00	8.7001e-01
86	PAN105136	-5.8181	0.8957	-1.4523	1.5335e+00	8.7001e-01
87	PAN110136	-4.8922	1.2876	-1.7174	1.6552e+00	8.7001e-01
88	PAN115136	-5.6406	0.5392	-2.6433	1.4874e+00	8.7003e-01
89	PAN120136	-4.1161	0.9955	-2.2290	1.1231e+00	8.7002e-01
90	PAN125136	-3.7465	-1.3051	-2.8854	4.6093e-01	8.7003e-01
91	PAN130136	-3.9635	-2.7428	-3.3018	2.6447e-01	8.7004e-01
92	PAN120048	-7.3109	-4.4118	-5.9579	7.3604e-01	8.7013e-01
93	PAN130048	-6.8282	-5.8364	-6.2692	2.2481e-01	8.7014e-01
94	PAN120224	-6.3146	-1.6607	-4.7343	1.0829e+00	8.7008e-01
95	PAN130224	-6.6036	-4.6200	-5.8454	4.6705e-01	8.7012e-01
96	PAN120312	-7.5411	-6.2441	-6.9728	3.0639e-01	8.7017e-01
97	PAN130312	-6.0197	-5.2567	-5.6367	1.6952e-01	8.7011e-01
98	PAB000136	39.6492	40.5647	40.0556	2.7460e-01	5.8858e-01
99	PAB100136	42.3438	42.6184	42.4680	6.8026e-02	5.8964e-01
100	PAB125136	42.8746	43.0577	42.9652	4.8092e-02	5.8986e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.0602	40.4030	39.8997	4.1742e-01	7.5660e-01
102	PRV000001	19.4351	19.5572	19.4750	5.7837e-02	7.5158e-01
103	PSR000001	43.1543	43.2764	43.2739	1.7439e-02	7.5776e-01
104	PFM000001	6.0970	6.3716	6.2053	1.0007e-01	5.0024e-01
105	PAN000136	-100.4700	-75.7507	-87.6993	7.7849e+00	4.9249e+00
106	PFM000002	6.1940	6.3114	6.2491	3.5097e-02	2.0061e-01
107	EMPTY	-0.0049	0.0049	0.0029	3.2934e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0004	1.9523e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.8918	146.0637	145.5375	2.5279e-01	1.1911e+00
113	VPW000002	168.9303	169.7115	169.3089	1.5133e-01	1.2993e+00
114	VPW000003	209.3112	209.8971	209.5982	1.5493e-01	1.4959e+00
115	VPW000004	148.9333	149.9099	149.3677	2.2994e-01	1.2080e+00
116	VPW000005	199.8498	200.8263	200.0729	2.0716e-01	1.4482e+00
117	VPW000006	207.7975	208.7740	208.3396	1.9230e-01	1.4895e+00
118	IPW000001	769.9742	777.7836	774.3570	1.9738e+00	1.0151e+01
119	IPW000002	1837.8334	1847.5897	1842.5714	2.2531e+00	1.6658e+01
120	IPW000003	1849.6501	1855.5001	1852.3564	1.4795e+00	1.6726e+01
121	IPW000004	536.9592	540.3771	538.3242	9.0793e-01	4.6996e+00
122	IPW000005	358.8320	361.2732	360.0477	5.1902e-01	3.4771e+00
123	IPW000006	373.4882	375.4413	374.3552	4.5962e-01	3.5702e+00
124	EMPTY	-0.0293	-0.0146	-0.0196	3.6607e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0140	3.3057e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0154	3.3574e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.4615e-03	0.0000e+00
128	IHT000001	183.5712	186.3056	184.8826	6.1246e-01	4.4976e+00
129	IHT000002	182.9702	185.1187	184.2139	5.5914e-01	4.4948e+00
130	IHT000003	182.6322	184.9760	184.0632	5.4721e-01	4.4942e+00
131	IHT000004	184.7543	187.2934	186.3846	6.0666e-01	4.5038e+00
132	IHT000005	182.5345	185.0736	183.9735	5.7179e-01	4.4938e+00
133	IHT000006	178.0987	180.4424	179.5017	5.5196e-01	4.4757e+00
134	IHT000007	186.2417	188.9761	187.5253	5.8458e-01	4.5085e+00
135	IHT000008	185.0887	187.4324	185.9975	5.7020e-01	4.5022e+00
136	IHT000009	183.9881	186.1366	184.8412	5.7179e-01	4.4974e+00
137	IHT000010	183.9919	186.9216	185.1916	6.2784e-01	4.4988e+00
138	IHT000011	185.1074	188.0371	186.4507	6.0938e-01	4.5040e+00
139	IHT000012	183.5036	186.6286	184.9106	6.6829e-01	4.4977e+00
140	IHT000013	130.4838	133.6088	131.8550	6.4592e-01	4.3068e+00
141	IHT000014	181.7195	184.8445	183.2024	6.4890e-01	4.4907e+00
142	IHT000015	133.7665	136.3056	134.8269	5.9536e-01	4.3160e+00
143	IHT000016	125.3793	127.9184	126.7745	5.5957e-01	4.2915e+00
144	IHT000017	149.7634	152.1071	150.8634	6.2619e-01	4.3688e+00
145	IHT000018	151.8667	154.9917	152.9429	6.5282e-01	4.3760e+00
146	IHT000019	152.9334	155.2772	153.9140	5.3561e-01	4.3794e+00
147	IHT000020	150.3418	152.4902	151.3662	5.0513e-01	4.3705e+00
148	IHT000021	-3.2227	-0.2930	-1.8874	5.9180e-01	4.1000e+00
149	IHT000022	130.2659	132.8050	131.4498	5.3401e-01	4.3056e+00
150	IHT000023	148.5539	150.5071	149.5344	4.7423e-01	4.3642e+00
151	IHT000024	113.0221	115.1705	114.1183	4.7977e-01	4.2559e+00
152	IHT000025	146.4581	148.2159	147.4665	4.4278e-01	4.3571e+00
153	IHT000026	149.4253	151.3785	150.4059	4.8418e-01	4.3672e+00
154	IHT000027	127.3137	129.8528	128.5014	5.6217e-01	4.2967e+00
155	IHT000028	128.1175	130.4612	129.1060	5.5873e-01	4.2985e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.9211	152.0696	150.8617	5.2691e-01	4.3687e+00
157	IHT000030	153.1888	155.1420	154.1056	5.1243e-01	4.3801e+00
158	IHT000031	150.1089	151.8667	150.7188	4.5567e-01	4.3683e+00
159	IHT000032	151.3447	153.2978	152.1419	4.7980e-01	4.3732e+00
160	IHT000033	151.1343	153.0874	152.0670	4.7886e-01	4.3729e+00
161	IHT000034	132.9214	135.2652	133.9418	5.3676e-01	4.3132e+00
162	IHT000035	176.4724	178.6208	177.4050	5.1562e-01	4.4674e+00
163	IHT000036	131.4378	133.7815	132.4702	5.4519e-01	4.3087e+00

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Velocity 1 = 0.007100 (ft/sec)

Velocity 2 = 0.015200 (ft/sec)

Pressure Drop = 0.051600 (psi)

Tsat in = 0.092590 (deg F) Tsat out = 0.012817 (deg F)

Phi inner = 0.580795 (kBtu/hr-ft2) Phi outer = 1.911804 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0960	0.1146
1	TRF000002	0.1218	0.1445
2	TFM000001	0.3332	0.3827
3	TIN000001	0.1508	0.1730
4	TRV000001	0.5502	0.6178
5	TSR000001	5.5402	2.7148
6	EMPTY	0.0607	0.1578
7	TAO050136	0.4974	0.2110
8	TAO070136	0.8860	0.3654
9	TAO080136	0.0771	0.0306
10	TAO090136	1.6825	0.6511
11	TAO100136	0.4081	0.1488
12	TAO105136	0.3141	0.1142
13	EMPTY	1.4809	10.7718
14	TAO115136	0.3920	0.1351
15	EMPTY	1.1796	3.1577
16	TAO125136	0.2836	0.0940
17	EMPTY	0.0290	0.0639
18	EMPTY	0.0408	0.0978
19	TAO130048	0.3452	0.1170
20	TAO120224	0.2790	0.0975
21	EMPTY	0.0083	0.0208
22	TAO120312	0.4131	0.1363
23	TAO130312	0.4901	0.1638
24	EMPTY	0.0222	0.0561
25	TRT070000	0.3646	0.1618
26	TRT100000	0.1288	0.0447
27	TRT120000	0.1644	0.0554
28	TRT125000	0.1988	0.0664
29	EMPTY	0.0154	0.0383
30	EMPTY	0.0379	0.0952
31	TAF050136	0.2954	0.1941
32	TAF070136	0.2261	0.1308
33	TAF080136	0.6331	0.3468
34	TAF090136	0.4294	0.2249
35	TAF100136	0.6348	0.3128
36	TAF105136	0.2767	0.1319
37	TAF110136	0.3629	0.1661
38	TAF115136	0.5148	0.2290
39	TAF120136	0.4814	0.2083
40	TAF125136	0.5110	0.2150
41	TAF130136	0.5510	0.2265
42	TAF120048	0.5042	0.2090
43	TAF130048	1.0679	0.4237
44	TAF120224	0.4960	0.2178
45	TAF130224	1.3328	0.5546

#	Name	Abs Diff	%Diff
46	EMPTY	0.1263	0.3302
47	EMPTY	0.0837	0.2088
48	TAI130048	2.1273	2.4961
49	TAI130136	0.0558	0.0185
50	TAI130224	2.1429	1.2223
51	TAI130312	12.7107	5.0616
52	TRR130000	0.4057	0.2584
53	TSI000001	0.4064	0.9112
54	TSI000002	0.9194	0.8362
55	TSO000001	0.3079	0.7317
56	TSO000002	0.2862	0.4702
57	TAF020136	0.1859	0.1621
58	EMPTY	0.0011	0.0025
59	TAF130312	0.6624	0.2468
60	EMPTY	0.0204	0.4293
61	EMPTY	0.0214	0.4524
62	EMPTY	0.0221	0.4690
63	EMPTY	0.0224	0.4762
64	EMPTY	0.0189	0.8513
65	EMPTY	0.0196	0.8787
66	EMPTY	0.0194	0.8678
67	EMPTY	0.0217	0.9667
68	EMPTY	0.0204	0.9077
69	EMPTY	0.0203	0.8999
70	EMPTY	0.0197	0.8713
71	EMPTY	0.0205	0.9010
72	EMPTY	0.0213	0.9343
73	EMPTY	0.0231	1.0089
74	EMPTY	0.0224	0.9761
75	EMPTY	0.0225	0.9770
76	EMPTY	0.0217	0.9406
77	EMPTY	0.0234	1.0094
78	EMPTY	0.0208	0.8928
79	EMPTY	0.0209	0.8913
80	PAN020136	0.6874	5.5139
81	PAN050136	0.3728	1.4498
82	PAN070136	0.7784	4.4412
83	PAN080136	1.5931	24.8282
84	PAN090136	0.9790	10.1188
85	PAN100136	0.7242	81.5724
86	PAN105136	0.4810	24.8797
87	PAN110136	0.9176	114.7287
88	PAN115136	0.5040	16.0137
89	PAN120136	0.0416	1.9018
90	PAN125136	0.1164	3.8777
91	PAN130136	0.1272	4.0068
92	PAN120048	0.1064	1.7545
93	PAN130048	0.1322	2.1541
94	PAN120224	0.2629	5.8796
95	PAN130224	0.3892	7.1332
96	PAN120312	0.0771	1.1181
97	PAN130312	0.2533	4.7052
98	PAB000136	0.0622	0.1555
99	PAB100136	0.0094	0.0221
100	PAB125136	0.0092	0.0214

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0003	0.0008
102	PRV000001	0.1847	0.9395
103	PSR000001	0.0122	0.0282
104	PFM000001	0.0143	0.2299
105	PAN000136	1.4273	1.6014
106	PFM000002	0.0305	0.4857
107	EMPTY	0.0019	190.0000
108	EMPTY	0.5529	5.8526
109	EMPTY	0.0030	88.2353
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.1848	0.1271
113	VPW000002	0.0779	0.0460
114	VPW000003	0.0136	0.0065
115	VPW000004	0.1866	0.1248
116	VPW000005	1.3404	0.6745
117	VPW000006	0.1376	0.0660
118	IPW000001	4.7735	0.6203
119	IPW000002	16.5629	0.9071
120	IPW000003	6.3022	0.3391
121	IPW000004	3.3964	0.6349
122	IPW000005	3.9011	1.0954
123	IPW000006	0.0315	0.0084
124	EMPTY	0.0005	2.4876
125	EMPTY	0.0001	0.7194
126	EMPTY	0.0005	3.1447
127	EMPTY	0.0011	7.0064
128	IHT000001	0.2082	0.1125
129	IHT000002	0.1665	0.0903
130	IHT000003	0.1589	0.0863
131	IHT000004	0.0611	0.0328
132	IHT000005	0.0767	0.0417
133	IHT000006	0.0384	0.0214
134	IHT000007	0.0212	0.0113
135	IHT000008	0.0142	0.0076
136	IHT000009	0.0103	0.0056
137	IHT000010	0.0581	0.0314
138	IHT000011	0.1137	0.0609
139	IHT000012	0.1125	0.0608
140	IHT000013	0.1992	0.1508
141	IHT000014	1.2601	0.6926
142	IHT000015	0.1897	0.1405
143	IHT000016	0.1646	0.1300
144	IHT000017	0.1313	0.0871
145	IHT000018	0.0020	0.0013
146	IHT000019	0.0625	0.0406
147	IHT000020	0.0068	0.0045
148	IHT000021	0.1491	8.5773
149	IHT000022	0.0549	0.0418
150	IHT000023	0.0780	0.0521
151	IHT000024	0.0522	0.0457
152	IHT000025	0.0267	0.0181
153	IHT000026	0.0077	0.0051
154	IHT000027	0.0940	0.0732
155	IHT000028	0.1603	0.1243

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0515	0.0341
157	IHT000030	0.0794	0.0515
158	IHT000031	0.0083	0.0055
159	IHT000032	0.0941	0.0619
160	IHT000033	0.1085	0.0714
161	IHT000034	0.0538	0.0402
162	IHT000035	1.3780	0.7828
163	IHT000036	0.0458	0.0346

DATE

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END