AIM

Association for Information and Image Management

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Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

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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 8 (U)

ISSUED: NOVEMBER, 1992

D. Allan Coutts

**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: Aug01_21

sum1

Date: Wed Aug 1 19:57:56 1990

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Velocity 1 = 25.9967 (ft/sec) (+/- 1.6888 %)
Velocity 2 = 13.4158 (ft/sec) (+/- 1.7033 %)
Pressure drop = 19.9809 (psi)
Tsat in = 267.8851 (deg F) Tsat out = 229.5785 (deg F)
Phi inner = -0.0004 (kBtu/hr-ft2) (+/- 554.8671 %)
Phi outer = 199.9298 (kBtu/hr-ft2) (+/- 1.3399 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	86.6432	87.4880	87.0150	2.1146e-01	1.9002e+00
1	TRF000002	87.0549	87.4750	87.3323	1.4352e-01	1.9002e+00
2	TFM000001	87.1929	88.1381	87.6843	2.1965e-01	1.9002e+00
3	TIN000001	86.8493	87.4808	87.0768	1.4791e-01	1.9002e+00
4	TRV000001	87.4735	88.3123	87.8137	2.1629e-01	1.9002e+00
5	TSR000001	106.9078	109.2757	108.0520	5.1608e-01	1.9010e+00
6	TAO020136	48.6880	51.2934	50.0174	5.3474e-01	1.9003e+00
7	TAO050136	122.5809	123.4995	123.0297	2.3292e-01	1.9019e+00
8	TAO070136	122.1453	123.0691	122.6133	2.0110e-01	1.9019e+00
9	TAO080136	132.2358	132.9462	132.6450	1.6346e-01	1.9026e+00
10	TAO090136	135.2508	136.1621	135.6236	2.3777e-01	1.9029e+00
11	TAO100136	127.5840	128.5009	128.0646	2.4920e-01	1.9023e+00
12	TAO105136	128.8840	130.3094	129.4627	2.9478e-01	1.9024e+00
13	TAO110136	131.1618	132.2710	131.5507	2.1121e-01	1.9026e+00
14	TAO115136	126.7257	127.7455	127.1706	2.5451e-01	1.9022e+00
15	TAO120136	135.2858	136.4989	135.8202	2.5282e-01	1.9029e+00
16	TAO125136	115.3965	116.9344	116.1434	3.2830e-01	1.9014e+00
17	TAO130136	128.3389	129.2496	128.7232	1.8607e-01	1.9023e+00
18	TAO120048	94.5020	95.5475	95.0246	3.0563e-01	1.9004e+00
19	TAO130048	131.1113	131.9227	131.4436	1.6403e-01	1.9025e+00
20	TAO120224	134.4792	135.7958	135.0061	2.2769e-01	1.9028e+00
21	TAO130224	126.0810	126.8934	126.4270	2.2674e-01	1.9021e+00
22	TAO120312	132.8702	133.8851	133.2721	2.4159e-01	1.9027e+00
23	TAO130312	132.3978	133.2090	132.8521	2.0291e-01	1.9027e+00
24	TRT020000	124.4236	125.5484	125.2171	2.4049e-01	1.9021e+00
25	TRT070000	129.6142	130.6363	130.1088	2.1771e-01	1.9024e+00
26	TRT100000	134.4730	135.3827	134.9861	2.3080e-01	1.9028e+00
27	TRT120000	131.1602	132.0741	131.6593	2.0986e-01	1.9026e+00
28	TRT125000	66.4244	207.8750	135.1001	2.5799e+01	1.9029e+00
29	TRT130000	132.3872	133.0976	132.8248	1.4418e-01	1.9027e+00
30	EMPTY	39.3761	40.2940	39.8214	1.9893e-01	1.9011e+00
31	TAF050136	95.5689	96.5061	96.0278	2.1875e-01	1.9005e+00
32	TAF070136	203.9614	204.8255	204.3726	2.0893e-01	1.9121e+00
33	TAF080136	129.9300	132.7480	131.4407	6.5677e-01	1.9025e+00
34	TAF090136	84.7006	85.8579	85.4075	2.7788e-01	1.9002e+00
35	TAF100136	102.2223	103.3667	102.8050	2.3203e-01	1.9007e+00
36	TAF105136	102.2191	103.2506	102.7719	2.5728e-01	1.9007e+00
37	TAF110136	103.4555	104.1805	103.8363	1.9673e-01	1.9008e+00
38	TAF115136	104.5553	105.2807	104.9245	1.9290e-01	1.9008e+00
39	TAF120136	116.1891	118.5357	117.0143	5.1627e-01	1.9015e+00
40	TAF125136	106.2028	107.2316	106.8528	2.6285e-01	1.9009e+00
41	TAF130136	107.2685	107.8902	107.5873	1.6432e-01	1.9010e+00
42	TAF120048	107.7322	108.8748	108.2269	2.4428e-01	1.9010e+00
43	TAF130048	109.5938	110.5231	109.9860	1.8754e-01	1.9011e+00
44	TAF120224	107.2526	108.3904	107.7657	2.5121e-01	1.9010e+00
45	TAF130224	107.5188	108.2459	107.9466	1.7746e-01	1.9010e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1353	2.1286e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3256	1.6263e-01	1.9010e+00
48	TAI130048	106.7415	108.3961	107.4656	3.6490e-01	1.9009e+00
49	TAI130136	107.0206	107.8471	107.4134	2.0870e-01	1.9009e+00
50	TAI130224	106.0321	106.9649	106.5175	2.1916e-01	1.9009e+00
51	TAI130312	106.4323	107.1582	106.7971	1.5417e-01	1.9009e+00
52	TRR130000	97.0515	98.1969	97.6341	2.5216e-01	1.9005e+00
53	TSI000001	65.0479	65.7980	65.3268	1.7959e-01	1.9000e+00
54	TSI000002	70.8977	71.9614	71.4171	2.6946e-01	1.9000e+00
55	TSO000001	64.5846	65.3373	64.9415	1.9942e-01	1.9000e+00
56	TSO000002	70.0402	70.8933	70.4406	1.9698e-01	1.9000e+00
57	TAF020136	88.8734	90.0333	89.4642	2.2339e-01	1.9003e+00
58	TAF120312	107.4577	108.3893	107.8389	2.5617e-01	1.9010e+00
59	TAF130312	111.7996	112.5212	112.1299	1.7665e-01	1.9012e+00
60	EMPTY	0.7813	0.7861	0.7843	2.3941e-03	0.0000e+00
61	EMPTY	0.7910	0.8008	0.7955	1.6624e-03	0.0000e+00
62	EMPTY	0.8008	0.8057	0.8027	2.4164e-03	0.0000e+00
63	EMPTY	0.8154	0.8154	0.8154	0.0000e+00	0.0000e+00
64	EMPTY	0.5225	0.5273	0.5269	1.4797e-03	0.0000e+00
65	EMPTY	0.5420	0.5518	0.5492	2.6543e-03	0.0000e+00
66	EMPTY	0.5664	0.5713	0.5666	9.6655e-04	0.0000e+00
67	EMPTY	0.5859	0.5908	0.5862	1.1714e-03	0.0000e+00
68	EMPTY	0.6006	0.6055	0.6012	1.6028e-03	0.0000e+00
69	EMPTY	0.6201	0.6250	0.6202	6.9053e-04	0.0000e+00
70	EMPTY	0.6348	0.6396	0.6372	2.4662e-03	0.0000e+00
71	EMPTY	0.6592	0.6641	0.6596	1.3381e-03	0.0000e+00
72	EMPTY	0.6738	0.6787	0.6750	2.1065e-03	0.0000e+00
73	EMPTY	0.6934	0.7031	0.6979	1.5314e-03	0.0000e+00
74	EMPTY	0.7080	0.7178	0.7129	9.8648e-04	0.0000e+00
75	EMPTY	0.7324	0.7373	0.7325	6.9053e-04	0.0000e+00
76	EMPTY	0.7422	0.7520	0.7473	1.3811e-03	0.0000e+00
77	EMPTY	0.7666	0.7715	0.7677	2.0432e-03	0.0000e+00
78	EMPTY	0.7861	0.7959	0.7910	9.8648e-04	0.0000e+00
79	EMPTY	0.8105	0.8154	0.8137	2.3675e-03	0.0000e+00
80	PAN020136	71.0401	71.8793	71.5100	1.8774e-01	8.8818e-01
81	PAN050136	122.3538	124.0323	123.2663	3.9054e-01	1.7080e+00
82	PAN070136	88.4221	89.7191	89.0294	2.9122e-01	8.9802e-01
83	PAN080136	44.5147	45.4302	44.9968	2.2885e-01	8.7724e-01
84	PAN090136	35.9288	38.2176	36.7970	4.8495e-01	8.7485e-01
85	PAN100136	39.1859	41.6273	40.6904	5.9459e-01	8.7593e-01
86	PAN105136	19.2312	22.3593	20.7937	6.4022e-01	8.7155e-01
87	PAN110136	24.9871	28.3440	26.5343	7.9032e-01	8.7253e-01
88	PAN115136	28.6375	30.9263	29.8276	6.1132e-01	8.7319e-01
89	PAN120136	32.2746	36.9285	34.4902	1.3223e+00	8.7426e-01
90	PAN125136	14.9456	22.9564	19.0044	2.4041e+00	8.7130e-01
91	PAN130136	9.5522	16.0372	12.3598	2.1581e+00	8.7055e-01
92	PAN120048	26.4242	29.5523	27.7227	7.9936e-01	8.7276e-01
93	PAN130048	52.0620	54.4271	53.3803	4.9517e-01	8.8018e-01
94	PAN120224	51.3842	55.1226	53.2656	1.0955e+00	8.8013e-01
95	PAN130224	40.1910	43.5479	42.2280	1.0039e+00	8.7638e-01
96	PAN120312	29.8750	31.7824	30.7707	5.0791e-01	8.7339e-01
97	PAN130312	48.2883	50.0431	49.1153	4.6404e-01	8.7862e-01
98	PAB000136	40.1144	40.5722	40.3479	8.3362e-02	5.8871e-01
99	PAB100136	25.4026	25.6315	25.5088	5.8812e-02	5.8350e-01
100	PAB125136	20.5327	20.8531	20.7067	9.1084e-02	5.8231e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.6476	40.3800	40.0602	1.6151e-01	7.5666e-01
102	PRV000001	19.6068	19.7289	19.6898	5.7521e-02	7.5161e-01
103	PSR000001	17.7781	18.0222	17.8733	5.6722e-02	7.5133e-01
104	PFM000001	103.3295	106.1677	104.2304	6.0060e-01	5.6383e-01
105	PAN000136	550.2062	556.6149	553.1817	1.4630e+00	5.1107e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0146	0.0104	1.6028e-03	0.0000e+00
108	EMPTY	-10.0000	-7.2314	-9.6673	7.4021e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0092	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	0.0040	1.8950e-03	0.0000e+00
112	VPW000001	144.0693	144.6552	144.3779	1.4812e-01	1.1860e+00
113	VPW000002	167.9049	168.4908	168.1431	1.0654e-01	1.2938e+00
114	VPW000003	0.0526	0.2479	0.1463	9.8569e-02	8.1000e-01
115	VPW000004	147.9530	148.5389	148.2069	1.6389e-01	1.2029e+00
116	VPW000005	196.7736	197.3595	197.0079	1.4227e-01	1.4329e+00
117	VPW000006	-0.0864	0.4995	0.2066	1.1334e-01	8.1000e-01
118	IPW000001	777.0703	788.7844	781.7559	3.1555e+00	1.0186e+01
119	IPW000002	1816.1064	1831.7166	1822.3503	3.8423e+00	1.6519e+01
120	IPW000003	-10.9125	0.7875	-5.7255	2.7467e+00	8.1001e+00
121	IPW000004	535.3440	538.7620	537.2286	8.8788e-01	4.6917e+00
122	IPW000005	354.3722	356.3252	355.2023	4.4387e-01	3.4459e+00
123	IPW000006	-1.3427	-0.3662	-0.7763	3.1752e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0184	4.2499e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0131	3.1874e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0142	3.8523e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0143	3.3944e-03	0.0000e+00
128	IHT000001	-1.3784	-0.0113	-0.7652	2.8729e-01	4.1000e+00
129	IHT000002	-1.2094	-0.0376	-0.6821	2.6543e-01	4.1000e+00
130	IHT000003	-1.2583	-0.0864	-0.6840	2.6881e-01	4.1000e+00
131	IHT000004	-1.3747	-0.0075	-0.5661	2.4005e-01	4.1000e+00
132	IHT000005	-1.3784	-0.2066	-0.6675	2.7270e-01	4.1000e+00
133	IHT000006	-1.6226	-0.4507	-1.0484	2.7737e-01	4.1000e+00
134	IHT000007	-1.4273	0.1352	-0.6538	2.9781e-01	4.1000e+00
135	IHT000008	-1.3296	-0.1578	-0.6890	2.8737e-01	4.1000e+00
136	IHT000009	-1.3935	-0.0263	-0.7607	3.0960e-01	4.1000e+00
137	IHT000010	-0.7287	0.8338	0.1151	3.6474e-01	4.1000e+00
138	IHT000011	-0.4995	1.0630	0.4028	3.1786e-01	4.1000e+00
139	IHT000012	-0.7512	0.8113	0.1472	3.4849e-01	4.1000e+00
140	IHT000013	130.8030	132.5608	131.6429	3.9705e-01	4.3062e+00
141	IHT000014	181.0547	183.0078	182.0352	4.0910e-01	4.4859e+00
142	IHT000015	135.4980	136.8652	136.1855	3.4679e-01	4.3203e+00
143	IHT000016	126.4273	127.7945	127.0952	3.2079e-01	4.2925e+00
144	IHT000017	150.0376	152.3813	151.3579	6.1328e-01	4.3705e+00
145	IHT000018	152.3663	154.7100	153.3975	4.5854e-01	4.3776e+00
146	IHT000019	147.1116	149.2601	148.3148	5.0279e-01	4.3600e+00
147	IHT000020	150.9202	153.6546	152.2797	5.4528e-01	4.3737e+00
148	IHT000021	-2.4151	0.9052	-0.6885	6.4157e-01	4.1000e+00
149	IHT000022	130.8631	133.4022	132.2303	5.0686e-01	4.3080e+00
150	IHT000023	148.2121	150.9465	149.7941	5.0878e-01	4.3651e+00
151	IHT000024	113.1949	115.7339	114.5698	4.9436e-01	4.2571e+00
152	IHT000025	148.0544	150.3981	149.2574	5.0124e-01	4.3632e+00
153	IHT000026	149.6357	151.9794	150.7685	4.8166e-01	4.3684e+00
154	IHT000027	127.8959	130.6303	129.3061	5.6674e-01	4.2991e+00
155	IHT000028	130.2209	132.7599	131.3419	5.9948e-01	4.3052e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	149.1361	151.6752	150.2299	6.1002e-01	4.3666e+00
157	IHT000030	151.9381	154.4772	152.9966	6.0372e-01	4.3762e+00
158	IHT000031	149.8535	152.5879	150.8730	6.0269e-01	4.3688e+00
159	IHT000032	151.6602	154.3945	152.7852	6.1201e-01	4.3754e+00
160	IHT000033	151.6601	154.1992	152.6992	6.2570e-01	4.3751e+00
161	IHT000034	133.3609	135.7046	134.5015	4.7246e-01	4.3150e+00
162	IHT000035	175.4582	177.9973	176.5753	5.1303e-01	4.4641e+00
163	IHT000036	131.8434	134.3825	132.9020	4.7856e-01	4.3100e+00

Test: Aug01_21

sum2

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Velocity 1 = 25.9537 (ft/sec) (+/- 1.6889 %)
Velocity 2 = 13.4154 (ft/sec) (+/- 1.7033 %)
Pressure drop = 19.9571 (psi)
Tsat in = 267.9149 (deg F) Tsat out = 229.7191 (deg F)
Phi inner = 0.0011 (kBtu/hr-ft2) (+/- 618.8286 %)
Phi outer = 200.1119 (kBtu/hr-ft2) (+/- 1.3402 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	86.6432	87.2769	87.0108	1.6966e-01	1.9002e+00
1	TRF000002	87.0549	87.4750	87.2524	1.3692e-01	1.9002e+00
2	TFM000001	86.8775	87.7180	87.3067	1.8596e-01	1.9002e+00
3	TIN000001	86.4283	87.0605	86.7359	1.5465e-01	1.9002e+00
4	TRV000001	87.0558	87.7882	87.4622	1.6340e-01	1.9002e+00
5	TSR000001	106.5985	109.0687	107.6240	5.6469e-01	1.9010e+00
6	TAO020136	47.7107	50.6427	49.7093	5.9584e-01	1.9003e+00
7	TAO050136	122.2775	123.1940	122.7169	1.7868e-01	1.9019e+00
8	TAO070136	121.8374	122.7612	122.2193	2.1743e-01	1.9018e+00
9	TAO080136	132.0342	132.7424	132.3264	1.4694e-01	1.9026e+00
10	TAO090136	134.9488	135.7576	135.3530	2.2175e-01	1.9029e+00
11	TAO100136	127.2801	128.0939	127.7843	1.8930e-01	1.9022e+00
12	TAO105136	128.6803	129.6991	129.1412	2.2928e-01	1.9024e+00
13	TAO110136	131.0628	131.7702	131.2890	1.7616e-01	1.9025e+00
14	TAO115136	126.5219	127.9486	126.9588	2.7394e-01	1.9022e+00
15	TAO120136	135.0830	136.6011	135.5330	2.6660e-01	1.9029e+00
16	TAO125136	116.2163	117.3445	116.7743	2.7561e-01	1.9015e+00
17	TAO130136	128.1379	128.6451	128.4220	1.3389e-01	1.9023e+00
18	TAO120048	92.3087	93.3548	92.8031	2.9568e-01	1.9004e+00
19	TAO130048	130.8077	131.4168	131.1322	1.3744e-01	1.9025e+00
20	TAO120224	134.3786	135.1876	134.6744	1.9489e-01	1.9028e+00
21	TAO130224	125.6774	126.4870	126.0998	1.8790e-01	1.9021e+00
22	TAO120312	132.5662	133.5809	132.9679	1.9980e-01	1.9027e+00
23	TAO130312	132.1962	132.8049	132.5448	1.4927e-01	1.9026e+00
24	TRT020000	124.5261	125.4460	124.9105	2.0823e-01	1.9020e+00
25	TRT070000	129.5118	130.2278	129.8678	1.8718e-01	1.9024e+00
26	TRT100000	134.2717	134.9794	134.6632	1.6546e-01	1.9028e+00
27	TRT120000	131.0591	131.9722	131.3797	1.8604e-01	1.9025e+00
28	TRT125000	91.4230	187.2196	136.0587	1.5976e+01	1.9029e+00
29	TRT130000	132.1844	132.8944	132.5498	1.5182e-01	1.9026e+00
30	EMPTY	39.3761	40.0646	39.7663	1.9808e-01	1.9011e+00
31	TAF050136	95.2580	96.1955	95.6703	2.0170e-01	1.9004e+00
32	TAF070136	203.5783	204.4427	203.9933	1.9252e-01	1.9121e+00
33	TAF080136	129.6269	132.6488	130.9974	8.0614e-01	1.9025e+00
34	TAF090136	83.6489	84.5969	84.1754	2.7728e-01	1.9001e+00
35	TAF100136	102.2223	102.9504	102.4475	1.6323e-01	1.9007e+00
36	TAF105136	101.9094	103.0449	102.4341	2.6845e-01	1.9007e+00
37	TAF110136	103.1453	103.8704	103.4852	1.5646e-01	1.9008e+00
38	TAF115136	104.1420	105.0742	104.6063	1.9980e-01	1.9008e+00
39	TAF120136	115.1670	119.8601	116.8832	1.0541e+00	1.9015e+00
40	TAF125136	105.9981	107.1300	106.5079	2.4975e-01	1.9009e+00
41	TAF130136	106.9589	107.4769	107.1913	1.2099e-01	1.9009e+00
42	TAF120048	107.4203	108.4592	107.9319	2.6622e-01	1.9010e+00
43	TAF130048	109.0787	110.0076	109.6398	1.7705e-01	1.9011e+00
44	TAF120224	106.8402	107.8737	107.4395	2.1700e-01	1.9009e+00
45	TAF130224	107.3111	107.9338	107.5854	1.5803e-01	1.9010e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0894	1.9708e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3531	1.2491e-01	1.9010e+00
48	TAI130048	106.5347	107.6730	107.0149	3.1041e-01	1.9009e+00
49	TAI130136	106.7116	107.4351	107.1207	1.7575e-01	1.9009e+00
50	TAI130224	105.7206	106.9655	106.2605	3.1973e-01	1.9009e+00
51	TAI130312	106.0177	106.8473	106.4700	1.8459e-01	1.9009e+00
52	TRR130000	96.6354	97.6758	97.1106	3.0229e-01	1.9005e+00
53	TSI000001	65.0479	65.5831	65.2755	1.3775e-01	1.9000e+00
54	TSI000002	70.7919	71.8539	71.3406	2.6910e-01	1.9000e+00
55	TSO000001	64.5852	65.3368	64.9159	1.6792e-01	1.9000e+00
56	TSO000002	70.0397	70.7853	70.4321	1.5742e-01	1.9000e+00
57	TAF020136	88.7676	89.5067	89.1097	2.0183e-01	1.9002e+00
58	TAF120312	106.9407	108.1827	107.5041	3.0077e-01	1.9009e+00
59	TAF130312	111.2862	112.1102	111.7309	1.7828e-01	1.9012e+00
60	EMPTY	0.7715	0.7764	0.7759	1.4797e-03	0.0000e+00
61	EMPTY	0.7861	0.7910	0.7863	9.6655e-04	0.0000e+00
62	EMPTY	0.7910	0.7959	0.7957	9.6655e-04	0.0000e+00
63	EMPTY	0.8057	0.8154	0.8104	1.3811e-03	0.0000e+00
64	EMPTY	0.5176	0.5273	0.5221	1.6624e-03	0.0000e+00
65	EMPTY	0.5420	0.5469	0.5459	1.9730e-03	0.0000e+00
66	EMPTY	0.5566	0.5664	0.5615	9.8648e-04	0.0000e+00
67	EMPTY	0.5811	0.5859	0.5813	9.6655e-04	0.0000e+00
68	EMPTY	0.5957	0.6006	0.5960	1.1714e-03	0.0000e+00
69	EMPTY	0.6152	0.6201	0.6153	6.9053e-04	0.0000e+00
70	EMPTY	0.6299	0.6348	0.6318	2.4164e-03	0.0000e+00
71	EMPTY	0.6543	0.6592	0.6548	1.4797e-03	0.0000e+00
72	EMPTY	0.6689	0.6738	0.6692	1.1714e-03	0.0000e+00
73	EMPTY	0.6885	0.6934	0.6927	1.7115e-03	0.0000e+00
74	EMPTY	0.7080	0.7080	0.7080	0.0000e+00	0.0000e+00
75	EMPTY	0.7275	0.7324	0.7276	6.9053e-04	0.0000e+00
76	EMPTY	0.7422	0.7471	0.7424	9.6655e-04	0.0000e+00
77	EMPTY	0.7617	0.7666	0.7621	1.3381e-03	0.0000e+00
78	EMPTY	0.7861	0.7861	0.7861	0.0000e+00	0.0000e+00
79	EMPTY	0.8057	0.8105	0.8066	1.9730e-03	0.0000e+00
80	PAN020136	70.6586	71.9556	71.2186	3.1687e-01	8.8803e-01
81	PAN050136	122.5064	124.0323	123.2510	4.0033e-01	1.7080e+00
82	PAN070136	88.4984	89.4139	88.9226	2.0341e-01	8.9795e-01
83	PAN080136	44.7436	45.5828	45.2181	1.6333e-01	8.7731e-01
84	PAN090136	36.2340	38.0650	36.9008	3.6306e-01	8.7488e-01
85	PAN100136	39.4147	41.0932	40.1167	4.0518e-01	8.7576e-01
86	PAN105136	18.6972	22.1304	20.4016	8.0986e-01	8.7149e-01
87	PAN110136	24.9871	28.8781	26.9082	1.0056e+00	8.7260e-01
88	PAN115136	29.0189	32.1470	30.3281	9.1324e-01	8.7330e-01
89	PAN120136	32.4272	37.3863	34.1713	1.2759e+00	8.7418e-01
90	PAN125136	13.1908	22.2698	18.3300	2.1306e+00	8.7121e-01
91	PAN130136	9.7048	16.2661	12.5719	1.9447e+00	8.7057e-01
92	PAN120048	25.8139	28.9419	27.4557	5.9642e-01	8.7270e-01
93	PAN130048	52.4434	54.3508	53.4582	4.9258e-01	8.8021e-01
94	PAN120224	51.8420	55.8855	53.1374	1.0536e+00	8.8008e-01
95	PAN130224	39.9621	43.4716	42.2646	9.6968e-01	8.7639e-01
96	PAN120312	29.5699	32.0876	30.6395	6.7072e-01	8.7337e-01
97	PAN130312	48.3646	50.5771	49.4907	5.2668e-01	8.7875e-01
98	PAB000136	40.2060	40.5264	40.3680	9.4861e-02	5.8871e-01
99	PAB100136	25.4942	25.6773	25.5729	5.8520e-02	5.8351e-01
100	PAB125136	20.6243	20.8989	20.7607	9.1314e-02	5.8232e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8917	40.6241	40.1969	1.7827e-01	7.5670e-01
102	PRV000001	19.6068	19.7289	19.6337	5.1081e-02	7.5160e-01
103	PSR000001	17.9001	18.0222	17.9319	5.4088e-02	7.5134e-01
104	PFM000001	102.5056	104.7944	103.8917	4.7085e-01	5.6344e-01
105	PAN000136	549.7485	555.2416	552.5225	1.3125e+00	5.1102e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0146	0.0104	1.6028e-03	0.0000e+00
108	EMPTY	-10.0000	-7.8076	-9.7779	5.0794e-01	0.0000e+00
109	EMPTY	0.0049	0.0146	0.0091	1.9754e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0044	1.4797e-03	0.0000e+00
112	VPW000001	144.0693	144.8505	144.3740	1.9395e-01	1.1860e+00
113	VPW000002	167.9049	168.2955	168.1119	1.2731e-01	1.2936e+00
114	VPW000003	-0.1427	0.2479	0.1307	1.0440e-01	8.1000e-01
115	VPW000004	147.9530	148.5389	148.1679	1.4363e-01	1.2027e+00
116	VPW000005	196.3830	197.3595	196.9532	1.6667e-01	1.4327e+00
117	VPW000006	-0.0864	0.3042	0.1753	1.0885e-01	8.1000e-01
118	IPW000001	763.4039	771.2133	767.6992	2.1961e+00	1.0119e+01
119	IPW000002	1831.7166	1853.1805	1839.5607	5.4266e+00	1.6637e+01
120	IPW000003	16.3875	20.2875	19.0395	1.2308e+00	8.1014e+00
121	IPW000004	531.9260	536.3206	533.4200	9.6861e-01	4.6645e+00
122	IPW000005	355.3487	357.7899	356.8231	5.2649e-01	3.4563e+00
123	IPW000006	-0.3662	1.5869	0.6104	3.8206e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0196	3.6232e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.7971e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0154	3.1752e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0137	3.2718e-03	0.0000e+00
128	IHT000001	-1.3784	-0.2066	-0.7613	2.8553e-01	4.1000e+00
129	IHT000002	-1.2094	-0.2329	-0.7251	2.5645e-01	4.1000e+00
130	IHT000003	-1.2583	-0.0864	-0.7153	2.8534e-01	4.1000e+00
131	IHT000004	-1.1794	0.1878	-0.6247	2.8553e-01	4.1000e+00
132	IHT000005	-1.3784	-0.0113	-0.7222	2.7554e-01	4.1000e+00
133	IHT000006	-1.6226	-0.4507	-1.0562	2.8523e-01	4.1000e+00
134	IHT000007	-1.2320	-0.0601	-0.6460	2.9791e-01	4.1000e+00
135	IHT000008	-1.3296	-0.3531	-0.6851	2.5034e-01	4.1000e+00
136	IHT000009	-1.3935	-0.2216	-0.7333	2.7307e-01	4.1000e+00
137	IHT000010	-0.9240	0.6385	-0.0216	4.0605e-01	4.1000e+00
138	IHT000011	-0.3042	1.0630	0.3130	3.6881e-01	4.1000e+00
139	IHT000012	-0.7512	0.8113	0.0496	4.0289e-01	4.1000e+00
140	IHT000013	130.8030	132.3655	131.5062	4.2864e-01	4.3057e+00
141	IHT000014	180.8594	182.6172	181.8125	4.4405e-01	4.4850e+00
142	IHT000015	135.3027	137.0605	136.1269	4.0103e-01	4.3201e+00
143	IHT000016	126.4273	127.9898	127.0601	4.1490e-01	4.2924e+00
144	IHT000017	149.6470	152.5766	151.3735	7.4070e-01	4.3705e+00
145	IHT000018	152.5616	154.5147	153.5069	4.9025e-01	4.3779e+00
146	IHT000019	147.5022	149.2601	148.2797	4.6936e-01	4.3599e+00
147	IHT000020	151.5061	153.4593	152.3969	4.5191e-01	4.3741e+00
148	IHT000021	-1.6339	0.3193	-0.6104	5.1684e-01	4.1000e+00
149	IHT000022	131.4491	133.2069	132.3632	4.0710e-01	4.3084e+00
150	IHT000023	149.1887	150.7512	149.8956	4.3205e-01	4.3654e+00
151	IHT000024	113.9761	115.3433	114.6480	4.1037e-01	4.2573e+00
152	IHT000025	148.4450	150.2028	149.3746	4.7933e-01	4.3636e+00
153	IHT000026	150.0263	151.9794	150.9482	4.7848e-01	4.3690e+00
154	IHT000027	128.4818	130.4350	129.5131	4.9133e-01	4.2997e+00
155	IHT000028	130.0255	132.5646	131.3068	7.6733e-01	4.3051e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.7455	151.4799	150.1401	6.9700e-01	4.3663e+00
157	IHT000030	151.5475	154.6725	152.9029	6.7820e-01	4.3758e+00
158	IHT000031	149.4629	152.7832	150.7949	7.0331e-01	4.3685e+00
159	IHT000032	151.4649	154.9805	152.7422	7.0940e-01	4.3753e+00
160	IHT000033	151.2695	154.9805	152.6484	7.1617e-01	4.3749e+00
161	IHT000034	133.1656	136.4859	134.4351	6.2046e-01	4.3148e+00
162	IHT000035	175.2629	178.1926	176.4542	5.6255e-01	4.4636e+00
163	IHT000036	131.6481	134.5778	132.8082	5.8048e-01	4.3097e+00

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Velocity 1 = 0.043001 (ft/sec)

Velocity 2 = 0.000401 (ft/sec)

Pressure Drop = 0.023800 (psi)

Tsat in = 0.029785 (deg F) Tsat out = 0.140594 (deg F)

Phi inner = 0.001500 (kBtu/hr-ft2) Phi outer = 0.182098 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0042	0.0048
1	TRF000002	0.0799	0.0915
2	TFM000001	0.3776	0.4306
3	TIN000001	0.3409	0.3915
4	TRV000001	0.3515	0.4003
5	TSR000001	0.4280	0.3961
6	TAO020136	0.3081	0.6160
7	TAO050136	0.3128	0.2542
8	TAO070136	0.3940	0.3213
9	TAO080136	0.3186	0.2402
10	TAO090136	0.2706	0.1995
11	TAO100136	0.2803	0.2189
12	TAO105136	0.3215	0.2483
13	TAO110136	0.2617	0.1989
14	TAO115136	0.2118	0.1665
15	TAO120136	0.2872	0.2115
16	TAO125136	0.6309	0.5432
17	TAO130136	0.3012	0.2340
18	TAO120048	2.2215	2.3378
19	TAO130048	0.3114	0.2369
20	TAO120224	0.3317	0.2457
21	TAO130224	0.3272	0.2588
22	TAO120312	0.3042	0.2283
23	TAO130312	0.3073	0.2313
24	TRT020000	0.3066	0.2449
25	TRT070000	0.2410	0.1852
26	TRT100000	0.3229	0.2392
27	TRT120000	0.2796	0.2124
28	TRT125000	0.9586	0.7096
29	TRT130000	0.2750	0.2070
30	EMPTY	0.0551	0.1384
31	TAF050136	0.3575	0.3723
32	TAF070136	0.3793	0.1856
33	TAF080136	0.4433	0.3373
34	TAF090136	1.2321	1.4426
35	TAF100136	0.3575	0.3477
36	TAF105136	0.3378	0.3287
37	TAF110136	0.3511	0.3381
38	TAF115136	0.3182	0.3033
39	TAF120136	0.1311	0.1120
40	TAF125136	0.3449	0.3228
41	TAF130136	0.3960	0.3681
42	TAF120048	0.2950	0.2726
43	TAF130048	0.3462	0.3148
44	TAF120224	0.3262	0.3027
45	TAF130224	0.3612	0.3346

#	Name	Abs Diff	%Diff
46	EMPTY	0.0459	0.1204
47	EMPTY	0.0275	0.0699
48	TAI130048	0.4507	0.4194
49	TAI130136	0.2927	0.2725
50	TAI130224	0.2570	0.2413
51	TAI130312	0.3271	0.3063
52	TRR130000	0.5235	0.5362
53	TSI000001	0.0513	0.0785
54	TSI000002	0.0765	0.1071
55	TSO000001	0.0256	0.0394
56	TSO000002	0.0085	0.0121
57	TAF020136	0.3545	0.3962
58	TAF120312	0.3348	0.3105
59	TAF130312	0.3990	0.3558
60	EMPTY	0.0084	1.0710
61	EMPTY	0.0092	1.1565
62	EMPTY	0.0070	0.8721
63	EMPTY	0.0050	0.6132
64	EMPTY	0.0048	0.9110
65	EMPTY	0.0033	0.6009
66	EMPTY	0.0051	0.9001
67	EMPTY	0.0049	0.8359
68	EMPTY	0.0052	0.8649
69	EMPTY	0.0049	0.7901
70	EMPTY	0.0054	0.8475
71	EMPTY	0.0048	0.7277
72	EMPTY	0.0058	0.8593
73	EMPTY	0.0052	0.7451
74	EMPTY	0.0049	0.6873
75	EMPTY	0.0049	0.6689
76	EMPTY	0.0049	0.6557
77	EMPTY	0.0056	0.7295
78	EMPTY	0.0049	0.6195
79	EMPTY	0.0071	0.8726
80	PAN020136	0.2914	0.4075
81	PAN050136	0.0153	0.0124
82	PAN070136	0.1068	0.1200
83	PAN080136	0.2213	0.4918
84	PAN090136	0.1038	0.2821
85	PAN100136	0.5737	1.4099
86	PAN105136	0.3921	1.8857
87	PAN110136	0.3739	1.4091
88	PAN115136	0.5005	1.6780
89	PAN120136	0.3189	0.9246
90	PAN125136	0.6744	3.5487
91	PAN130136	0.2121	1.7160
92	PAN120048	0.2670	0.9631
93	PAN130048	0.0779	0.1459
94	PAN120224	0.1282	0.2407
95	PAN130224	0.0366	0.0867
96	PAN120312	0.1312	0.4264
97	PAN130312	0.3754	0.7643
98	PAB000136	0.0201	0.0498
99	PAB100136	0.0641	0.2513
100	PAB125136	0.0540	0.2608

#	Name	Abs Diff	%Diff
101	PIN000001	0.1367	0.3412
102	PRV000001	0.0561	0.2849
103	PSR000001	0.0586	0.3279
104	PFM000001	0.3387	0.3250
105	PAN000136	0.6592	0.1192
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0000	0.0000
108	EMPTY	0.1106	1.1441
109	EMPTY	0.0001	1.0870
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	10.0000
112	VPW000001	0.0039	0.0027
113	VPW000002	0.0312	0.0186
114	VPW000003	0.0156	10.6630
115	VPW000004	0.0390	0.0263
116	VPW000005	0.0547	0.0278
117	VPW000006	0.0313	15.1500
118	IPW000001	14.0567	1.7981
119	IPW000002	17.2103	0.9444
120	IPW000003	24.7650	432.5386
121	IPW000004	3.8086	0.7089
122	IPW000005	1.6208	0.4563
123	IPW000006	1.3867	178.6294
124	EMPTY	0.0012	6.5217
125	EMPTY	0.0002	1.5267
126	EMPTY	0.0012	8.4507
127	EMPTY	0.0006	4.1958
128	IHT000001	0.0039	0.5097
129	IHT000002	0.0430	6.3041
130	IHT000003	0.0313	4.5760
131	IHT000004	0.0586	10.3515
132	IHT000005	0.0547	8.1947
133	IHT000006	0.0078	0.7440
134	IHT000007	0.0078	1.1930
135	IHT000008	0.0039	0.5660
136	IHT000009	0.0274	3.6019
137	IHT000010	0.1367	118.7663
138	IHT000011	0.0898	22.2939
139	IHT000012	0.0976	66.3043
140	IHT000013	0.1367	0.1038
141	IHT000014	0.2227	0.1223
142	IHT000015	0.0586	0.0430
143	IHT000016	0.0351	0.0276
144	IHT000017	0.0156	0.0103
145	IHT000018	0.1094	0.0713
146	IHT000019	0.0351	0.0237
147	IHT000020	0.1172	0.0770
148	IHT000021	0.0781	11.3435
149	IHT000022	0.1329	0.1005
150	IHT000023	0.1015	0.0678
151	IHT000024	0.0782	0.0683
152	IHT000025	0.1172	0.0785
153	IHT000026	0.1797	0.1192
154	IHT000027	0.2070	0.1601
155	IHT000028	0.0351	0.0267

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0898	0.0598
157	IHT000030	0.0937	0.0612
158	IHT000031	0.0781	0.0518
159	IHT000032	0.0430	0.0281
160	IHT000033	0.0508	0.0333
161	IHT000034	0.0664	0.0494
162	IHT000035	0.1211	0.0686
163	IHT000036	0.0938	0.0706

Velocity 1 = 14.0079 (ft/sec) (+/- 1.8669 %)
Velocity 2 = 13.4148 (ft/sec) (+/- 1.7033 %)
Pressure drop = 2.4796 (psi)
Tsats in = 267.6953 (deg F) Tsats out = 263.8567 (deg F)
Phi inner = 0.0005 (kBtu/hr-ft2) (+/- 513.3287 %)
Phi outer = 200.5663 (kBtu/hr-ft2) (+/- 1.3395 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	86.6432	87.2769	86.8798	1.5761e-01	1.9002e+00
1	TRF000002	86.8448	87.2650	87.0843	1.2740e-01	1.9002e+00
2	TFM000001	86.4575	87.1935	86.7711	1.8059e-01	1.9002e+00
3	TIN000001	85.7969	86.4283	86.1232	1.4472e-01	1.9002e+00
4	TRV000001	86.5308	87.2655	86.9571	2.0569e-01	1.9002e+00
5	TSR000001	109.9890	110.9146	110.4156	1.8600e-01	1.9011e+00
6	TAO020136	49.6657	51.4019	50.4798	4.5683e-01	1.9003e+00
7	TAO050136	147.1167	148.3136	147.7741	2.7797e-01	1.9041e+00
8	TAO070136	144.3353	145.8491	145.0845	3.0099e-01	1.9038e+00
9	TAO080136	162.6158	163.6022	163.1982	2.3107e-01	1.9058e+00
10	TAO090136	166.8678	167.8549	167.3359	2.6945e-01	1.9064e+00
11	TAO100136	156.6147	158.3037	157.3645	4.2347e-01	1.9051e+00
12	TAO105136	158.1841	160.1753	159.0028	4.5023e-01	1.9053e+00
13	TAO110136	161.6684	163.2421	162.2183	3.2032e-01	1.9057e+00
14	TAO115136	155.8456	157.6384	156.4574	3.8919e-01	1.9050e+00
15	TAO120136	167.4625	169.0417	168.1161	3.0180e-01	1.9065e+00
16	TAO125136	137.4531	138.8649	138.1291	2.9240e-01	1.9031e+00
17	TAO130136	158.1672	158.9550	158.5871	1.4502e-01	1.9053e+00
18	TAO120048	90.7397	91.7872	91.1652	3.0527e-01	1.9003e+00
19	TAO130048	163.0549	163.7482	163.4052	1.5643e-01	1.9059e+00
20	TAO120224	167.4454	168.6307	167.9929	2.5328e-01	1.9065e+00
21	TAO130224	154.8192	155.5135	155.1595	1.7451e-01	1.9049e+00
22	TAO120312	166.7275	167.9145	167.1414	2.9070e-01	1.9063e+00
23	TAO130312	163.6664	164.3595	163.9853	1.5390e-01	1.9059e+00
24	TRT020000	149.7499	150.8529	150.2973	2.7577e-01	1.9043e+00
25	TRT070000	159.6509	160.8494	160.3879	2.6988e-01	1.9055e+00
26	TRT100000	165.8822	166.8687	166.3979	2.2669e-01	1.9062e+00
27	TRT120000	164.7757	165.7649	165.2639	2.6824e-01	1.9061e+00
28	TRT125000	129.0246	192.7202	165.1899	1.5861e+01	1.9061e+00
29	TRT130000	162.9640	163.6574	163.3624	1.4215e-01	1.9059e+00
30	EMPTY	39.1464	40.0646	39.8352	2.0212e-01	1.9011e+00
31	TAF050136	102.3049	103.7525	103.1057	2.7930e-01	1.9007e+00
32	TAF070136	187.9796	192.3304	190.3262	9.7789e-01	1.9097e+00
33	TAF080136	155.5731	164.5363	160.7225	2.0616e+00	1.9055e+00
34	TAF090136	82.1750	83.4398	82.8554	2.8822e-01	1.9001e+00
35	TAF100136	115.1527	116.1816	115.6902	2.8444e-01	1.9014e+00
36	TAF105136	115.2184	116.5456	115.8177	3.3974e-01	1.9014e+00
37	TAF110136	116.8059	117.8291	117.3198	2.4491e-01	1.9015e+00
38	TAF115136	118.4254	119.5509	119.0700	2.4474e-01	1.9016e+00
39	TAF120136	135.8500	159.4776	142.3700	4.4052e+00	1.9035e+00
40	TAF125136	122.2060	123.3230	122.7251	3.1503e-01	1.9019e+00
41	TAF130136	123.4579	124.3753	123.9571	2.1622e-01	1.9020e+00
42	TAF120048	124.9802	126.4162	125.6269	3.5162e-01	1.9021e+00
43	TAF130048	127.9047	129.1245	128.6224	3.0606e-01	1.9023e+00
44	TAF120224	124.5787	125.8010	125.1068	3.0362e-01	1.9020e+00
45	TAF130224	124.8544	126.0833	125.3114	2.4406e-01	1.9021e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0618	2.4155e-01	1.9010e+00
47	EMPTY	39.1464	40.0646	39.4036	2.2070e-01	1.9010e+00
48	TAI130048	122.7727	123.9981	123.3097	3.4697e-01	1.9019e+00
49	TAI130136	122.9981	124.0167	123.5501	2.1605e-01	1.9019e+00
50	TAI130224	121.4934	122.5182	122.0448	3.1441e-01	1.9018e+00
51	TAI130312	122.2800	122.9965	122.6301	1.5482e-01	1.9019e+00
52	TRR130000	108.9402	110.1762	109.4947	3.0483e-01	1.9011e+00
53	TSI000001	65.0474	65.6895	65.3067	1.6746e-01	1.9000e+00
54	TSI000002	73.0193	74.0806	73.4506	2.6451e-01	1.9000e+00
55	TSC000001	64.3707	65.3379	64.8927	2.1051e-01	1.9000e+00
56	TSC000002	71.7429	72.4885	72.0818	1.7167e-01	1.9000e+00
57	TAF020136	91.0902	92.2498	91.7333	2.8566e-01	1.9003e+00
58	TAF120312	125.2183	126.9509	126.2971	3.5662e-01	1.9021e+00
59	TAF130312	132.8057	133.9195	133.4478	2.3625e-01	1.9027e+00
60	EMPTY	1.2891	1.2988	1.2939	2.2058e-03	0.0000e+00
61	EMPTY	1.2939	1.3037	1.3001	2.3778e-03	0.0000e+00
62	EMPTY	1.3037	1.3086	1.3041	1.3381e-03	0.0000e+00
63	EMPTY	1.3135	1.3184	1.3145	1.9730e-03	0.0000e+00
64	EMPTY	0.7324	0.7373	0.7371	9.6655e-04	0.0000e+00
65	EMPTY	0.7568	0.7617	0.7572	1.3381e-03	0.0000e+00
66	EMPTY	0.7715	0.7764	0.7742	2.4484e-03	0.0000e+00
67	EMPTY	0.7910	0.7959	0.7923	2.1635e-03	0.0000e+00
68	EMPTY	0.8057	0.8057	0.8057	0.0000e+00	0.0000e+00
69	EMPTY	0.8203	0.8252	0.8250	9.6655e-04	0.0000e+00
70	EMPTY	0.8350	0.8447	0.8389	2.2058e-03	0.0000e+00
71	EMPTY	0.8594	0.8643	0.8595	6.9053e-04	0.0000e+00
72	EMPTY	0.8643	0.8789	0.8739	1.5566e-03	0.0000e+00
73	EMPTY	0.8936	0.8936	0.8936	0.0000e+00	0.0000e+00
74	EMPTY	0.9082	0.9131	0.9084	9.6655e-04	0.0000e+00
75	EMPTY	0.9229	0.9277	0.9274	1.1714e-03	0.0000e+00
76	EMPTY	0.9375	0.9424	0.9406	2.3675e-03	0.0000e+00
77	EMPTY	0.9570	0.9619	0.9585	2.2603e-03	0.0000e+00
78	EMPTY	0.9766	0.9863	0.9813	1.2041e-03	0.0000e+00
79	EMPTY	1.0010	1.0059	1.0014	1.3381e-03	0.0000e+00
80	PAN020136	7.8687	10.0812	9.1397	4.9387e-01	8.7030e-01
81	PAN050136	13.4061	14.9319	14.0591	3.5423e-01	1.6804e+00
82	PAN070136	10.9838	11.8993	11.4186	2.2403e-01	8.7047e-01
83	PAN080136	2.8582	5.2996	4.3184	6.7328e-01	8.7007e-01
84	PAN090136	2.1306	5.7164	3.6610	8.7185e-01	8.7005e-01
85	PAN100136	1.3441	4.8536	3.5886	8.2906e-01	8.7005e-01
86	PAN105136	0.3103	5.0405	2.3199	1.3314e+00	8.7002e-01
87	PAN110136	1.1834	6.8291	3.7026	1.5384e+00	8.7005e-01
88	PAN115136	2.7738	7.5040	5.5586	1.1093e+00	8.7011e-01
89	PAN120136	4.6562	9.7679	6.7299	1.4145e+00	8.7016e-01
90	PAN125136	-3.5176	4.0355	0.7686	1.6975e+00	8.7000e-01
91	PAN130136	-0.9763	3.4487	1.4788	1.4441e+00	8.7001e-01
92	PAN120048	-3.3304	2.4679	-0.8036	1.1703e+00	8.7000e-01
93	PAN130048	7.6589	10.0240	9.4838	6.0778e-01	8.7032e-01
94	PAN120224	5.2264	11.2536	8.0080	1.3271e+00	8.7023e-01
95	PAN130224	4.0276	7.3083	6.1074	1.0827e+00	8.7013e-01
96	PAN120312	-0.6425	2.2566	0.7002	8.1925e-01	8.7000e-01
97	PAN130312	6.4029	8.6155	7.7839	6.4687e-01	8.7022e-01
98	PAB000136	40.0686	40.3433	40.2197	7.1786e-02	5.8865e-01
99	PAB100136	38.3573	38.5862	38.4498	5.3520e-02	5.8791e-01
100	PAB125136	37.5615	37.7904	37.7043	7.0820e-02	5.8761e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.6476	40.2579	39.9698	1.3454e-01	7.5663e-01
102	PRV000001	19.4847	19.8509	19.6849	7.2993e-02	7.5161e-01
103	PSR000001	36.8210	37.0652	36.9260	4.9385e-02	7.5566e-01
104	PFM000001	29.8127	30.4536	30.0800	1.3822e-01	5.0562e-01
105	PAN000136	65.4345	71.8432	68.6480	1.4431e+00	4.9230e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0067	2.3941e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-8.8132	3.1332e+00	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	0.0002	9.6655e-04	0.0000e+00
112	VPW000001	144.4599	145.0458	144.7334	1.6741e-01	1.1875e+00
113	VPW000002	168.1002	168.4908	168.3189	1.2871e-01	1.2946e+00
114	VPW000003	0.0526	0.4432	0.1581	1.0595e-01	8.1000e-01
115	VPW000004	148.1483	148.7342	148.4257	1.3720e-01	1.2038e+00
116	VPW000005	196.9689	197.5549	197.2774	1.4812e-01	1.4343e+00
117	VPW000006	0.1089	0.3042	0.2027	9.8569e-02	8.1000e-01
118	IPW000001	773.1656	777.0703	775.4693	1.4051e+00	1.0156e+01
119	IPW000002	1825.8628	1831.7166	1829.2970	1.5550e+00	1.6567e+01
120	IPW000003	4.6875	8.5875	6.6375	1.4204e+00	8.1002e+00
121	IPW000004	537.7854	540.2268	539.4258	5.1975e-01	4.7074e+00
122	IPW000005	356.8134	357.7899	357.3016	3.6907e-01	3.4594e+00
123	IPW000006	0.6104	1.5869	1.0205	3.6057e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0177	3.8066e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0122	2.8334e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0145	3.6858e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0139	3.3249e-03	0.0000e+00
128	IHT000001	-1.3784	-0.2066	-0.7613	2.3794e-01	4.1000e+00
129	IHT000002	-1.4048	-0.2329	-0.6860	2.3157e-01	4.1000e+00
130	IHT000003	-1.2583	-0.0864	-0.7075	2.5170e-01	4.1000e+00
131	IHT000004	-1.1794	-0.2028	-0.6208	2.4645e-01	4.1000e+00
132	IHT000005	-1.1831	-0.2066	-0.6480	2.4897e-01	4.1000e+00
133	IHT000006	-1.6226	-0.4507	-0.9468	2.5331e-01	4.1000e+00
134	IHT000007	-1.2320	-0.0601	-0.5991	2.5438e-01	4.1000e+00
135	IHT000008	-1.3296	-0.1578	-0.6070	2.4404e-01	4.1000e+00
136	IHT000009	-1.3935	-0.2216	-0.6747	2.4465e-01	4.1000e+00
137	IHT000010	-0.7287	0.8338	0.0174	4.1515e-01	4.1000e+00
138	IHT000011	-0.3042	1.2583	0.3520	4.1151e-01	4.1000e+00
139	IHT000012	-0.5559	1.0066	0.0926	4.3304e-01	4.1000e+00
140	IHT000013	130.6077	132.3655	131.3812	4.3755e-01	4.3054e+00
141	IHT000014	180.8594	182.4219	181.5898	4.1910e-01	4.4841e+00
142	IHT000015	135.1074	137.2558	136.0840	4.2131e-01	4.3199e+00
143	IHT000016	126.0367	127.9898	127.0991	4.2711e-01	4.2925e+00
144	IHT000017	150.6235	153.1626	151.5376	5.0600e-01	4.3711e+00
145	IHT000018	152.3663	154.9053	153.3350	5.5658e-01	4.3773e+00
146	IHT000019	146.9163	149.2601	147.9476	5.9978e-01	4.3588e+00
147	IHT000020	151.3108	153.6546	152.3187	5.3722e-01	4.3738e+00
148	IHT000021	-1.8292	1.1005	-0.5284	5.9792e-01	4.1000e+00
149	IHT000022	131.2537	133.9881	132.4296	5.7520e-01	4.3086e+00
150	IHT000023	148.4075	151.1418	149.7042	5.3635e-01	4.3648e+00
151	IHT000024	113.1949	115.7339	114.4526	5.1473e-01	4.2568e+00
152	IHT000025	147.8591	150.3981	149.1442	5.5114e-01	4.3628e+00
153	IHT000026	149.4403	152.1747	150.5966	5.9430e-01	4.3678e+00
154	IHT000027	128.0912	130.8256	129.3295	5.9137e-01	4.2991e+00
155	IHT000028	130.2209	132.3693	131.3615	5.6821e-01	4.3053e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.9408	150.8939	149.9057	5.6553e-01	4.3655e+00
157	IHT000030	151.7428	153.8912	152.7818	5.8851e-01	4.3754e+00
158	IHT000031	149.6582	151.8066	150.6816	5.3315e-01	4.3681e+00
159	IHT000032	151.4649	154.0039	152.6094	5.6636e-01	4.3748e+00
160	IHT000033	151.4648	153.8086	152.4805	5.5943e-01	4.3744e+00
161	IHT000034	133.5562	135.3140	134.3023	4.4589e-01	4.3144e+00
162	IHT000035	175.2629	177.2160	176.2355	4.9204e-01	4.4627e+00
163	IHT000036	131.8434	133.4059	132.6286	4.2952e-01	4.3092e+00

Velocity 1 = 14.0126 (ft/sec) (+/- 1.8666 %)
Velocity 2 = 13.4148 (ft/sec) (+/- 1.7033 %)
Pressure drop = 2.5004 (psi)
Tsat in = 267.4709 (deg F) Tsat out = 263.5798 (deg F)
Phi inner = -0.0006 (kBtu/hr-ft2) (+/- 582.1697 %)
Phi outer = 200.0478 (kBtu/hr-ft2) (+/- 1.3396 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	86.4319	87.0657	86.7362	1.8188e-01	1.9002e+00
1	TRF000002	86.8448	87.2650	86.9919	1.2191e-01	1.9002e+00
2	TFM000001	86.4575	87.0885	86.8252	1.8042e-01	1.9002e+00
3	TIN000001	85.9018	86.5332	86.2114	1.2841e-01	1.9002e+00
4	TRV000001	86.5308	87.4747	86.9437	2.3991e-01	1.9002e+00
5	TSR000001	110.6048	111.5305	111.2437	2.0914e-01	1.9011e+00
6	TAO020136	49.9915	51.7267	50.8311	4.0220e-01	1.9002e+00
7	TAO050136	147.5152	148.3118	147.8528	1.7897e-01	1.9041e+00
8	TAO070136	144.6385	145.7482	145.2178	2.8441e-01	1.9038e+00
9	TAO080136	162.8111	163.6028	163.1774	1.7661e-01	1.9058e+00
10	TAO090136	166.7690	168.0519	167.3077	2.7698e-01	1.9064e+00
11	TAO100136	156.2162	158.1052	157.3997	3.6023e-01	1.9051e+00
12	TAO105136	157.7854	160.0753	158.9190	4.8216e-01	1.9053e+00
13	TAO110136	161.6661	163.1430	162.1423	2.5285e-01	1.9057e+00
14	TAO115136	155.7455	157.7376	156.4451	3.9265e-01	1.9050e+00
15	TAO120136	167.7576	169.1398	168.1474	2.6500e-01	1.9065e+00
16	TAO125136	135.6366	137.3530	136.2614	3.4578e-01	1.9030e+00
17	TAO130136	158.2638	158.9545	158.5812	1.5088e-01	1.9053e+00
18	TAO120048	91.9943	93.1452	92.5785	2.7869e-01	1.9003e+00
19	TAO130048	162.9553	163.8454	163.4518	2.0027e-01	1.9059e+00
20	TAO120224	167.3462	168.9252	168.0397	3.6244e-01	1.9065e+00
21	TAO130224	154.6212	155.7113	155.1897	2.6453e-01	1.9049e+00
22	TAO120312	166.6282	168.1124	167.1728	3.1362e-01	1.9064e+00
23	TAO130312	163.5674	164.4579	164.1071	1.9090e-01	1.9060e+00
24	TRT020000	149.6493	150.8530	150.3495	3.0094e-01	1.9043e+00
25	TRT070000	159.7508	161.0495	160.3763	2.9585e-01	1.9055e+00
26	TRT100000	165.9799	167.0657	166.4484	2.4317e-01	1.9063e+00
27	TRT120000	164.5773	165.6655	165.1725	2.4020e-01	1.9061e+00
28	TRT125000	56.5110	243.5197	145.6780	3.6301e+01	1.9039e+00
29	TRT130000	163.1611	163.8544	163.4328	1.6586e-01	1.9059e+00
30	EMPTY	39.3761	40.2940	39.8306	2.6832e-01	1.9011e+00
31	TAF050136	102.3049	103.8553	103.1338	3.6086e-01	1.9007e+00
32	TAF070136	195.7987	197.1482	196.5055	3.2187e-01	1.9108e+00
33	TAF080136	156.9540	163.4556	160.6395	1.3195e+00	1.9055e+00
34	TAF090136	83.4371	84.7006	84.1555	2.8824e-01	1.9001e+00
35	TAF100136	115.4616	116.4903	115.8505	2.5899e-01	1.9014e+00
36	TAF105136	115.0147	116.8472	115.9182	3.4337e-01	1.9014e+00
37	TAF110136	116.9076	117.9303	117.4456	2.3278e-01	1.9015e+00
38	TAF115136	118.7311	119.6511	119.1428	2.4312e-01	1.9016e+00
39	TAF120136	137.7587	162.0432	142.8052	4.4724e+00	1.9036e+00
40	TAF125136	122.1055	123.7279	122.9101	3.3940e-01	1.9019e+00
41	TAF130136	123.5584	124.5777	124.0582	1.8687e-01	1.9020e+00
42	TAF120048	124.8790	126.5188	125.7010	4.2974e-01	1.9021e+00
43	TAF130048	127.7007	129.4268	128.7031	3.2836e-01	1.9023e+00
44	TAF120224	124.4767	125.9026	125.2813	3.7160e-01	1.9021e+00
45	TAF130224	124.7525	125.8790	125.4264	2.6989e-01	1.9021e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0756	1.8933e-01	1.9010e+00
47	EMPTY	39.1464	40.0646	39.4679	1.6067e-01	1.9010e+00
48	TAI130048	122.7722	124.0991	123.4646	2.9977e-01	1.9019e+00
49	TAI130136	123.3020	124.0167	123.6633	1.8786e-01	1.9019e+00
50	TAI130224	121.4929	122.7230	122.1594	3.1272e-01	1.9018e+00
51	TAI130312	122.2795	123.0989	122.7239	1.9135e-01	1.9019e+00
52	TRR130000	109.4538	110.3818	109.9629	2.2254e-01	1.9011e+00
53	TSI000001	64.9399	65.5826	65.2165	1.4986e-01	1.9000e+00
54	TSI000002	72.9131	74.0806	73.4414	2.8948e-01	1.9000e+00
55	TSO000001	64.3707	65.2304	64.8328	1.8709e-01	1.9000e+00
56	TSO000002	71.5296	72.5948	72.0474	2.1940e-01	1.9000e+00
57	TAF020136	91.4067	92.3549	91.8139	2.4639e-01	1.9003e+00
58	TAF120312	125.3202	127.1546	126.4231	3.9146e-01	1.9021e+00
59	TAF130312	133.0079	134.2220	133.6494	2.8726e-01	1.9027e+00
60	EMPTY	1.2988	1.3086	1.3018	3.1195e-03	0.0000e+00
61	EMPTY	1.3037	1.3135	1.3080	2.7267e-03	0.0000e+00
62	EMPTY	1.3037	1.3135	1.3127	2.0598e-03	0.0000e+00
63	EMPTY	1.3184	1.3281	1.3222	2.2689e-03	0.0000e+00
64	EMPTY	0.7373	0.7373	0.7373	0.0000e+00	0.0000e+00
65	EMPTY	0.7520	0.7617	0.7585	2.5362e-03	0.0000e+00
66	EMPTY	0.7715	0.7764	0.7753	2.0432e-03	0.0000e+00
67	EMPTY	0.7861	0.7959	0.7931	2.6267e-03	0.0000e+00
68	EMPTY	0.8057	0.8105	0.8060	1.1714e-03	0.0000e+00
69	EMPTY	0.8203	0.8252	0.8245	1.7115e-03	0.0000e+00
70	EMPTY	0.8350	0.8398	0.8394	1.4797e-03	0.0000e+00
71	EMPTY	0.8594	0.8643	0.8596	9.6655e-04	0.0000e+00
72	EMPTY	0.8691	0.8740	0.8739	6.9053e-04	0.0000e+00
73	EMPTY	0.8936	0.8936	0.8936	0.0000e+00	0.0000e+00
74	EMPTY	0.9082	0.9082	0.9082	0.0000e+00	0.0000e+00
75	EMPTY	0.9229	0.9277	0.9273	1.3381e-03	0.0000e+00
76	EMPTY	0.9375	0.9473	0.9403	2.6267e-03	0.0000e+00
77	EMPTY	0.9570	0.9619	0.9583	2.1635e-03	0.0000e+00
78	EMPTY	0.9766	0.9814	0.9812	9.6655e-04	0.0000e+00
79	EMPTY	1.0010	1.0059	1.0014	1.3381e-03	0.0000e+00
80	PAN020136	8.0976	11.5308	9.7516	8.8672e-01	8.7034e-01
81	PAN050136	13.5587	15.2371	14.4742	3.2332e-01	1.6804e+00
82	PAN070136	10.8312	11.8993	11.2767	2.3496e-01	8.7046e-01
83	PAN080136	2.6293	5.2996	4.1979	6.6924e-01	8.7006e-01
84	PAN090136	1.2914	5.3349	3.4276	1.0388e+00	8.7004e-01
85	PAN100136	1.5729	6.3032	4.3012	1.3088e+00	8.7007e-01
86	PAN105136	-0.3763	4.6591	1.9689	1.3550e+00	8.7001e-01
87	PAN110136	1.2597	6.5240	3.6828	1.3175e+00	8.7005e-01
88	PAN115136	3.5368	7.8092	5.4350	1.1364e+00	8.7011e-01
89	PAN120136	4.5036	10.3019	6.8138	1.4438e+00	8.7017e-01
90	PAN125136	-3.0598	4.1118	0.8724	1.9364e+00	8.7000e-01
91	PAN130136	-1.1289	3.2961	1.5002	1.5430e+00	8.7001e-01
92	PAN120048	-3.5593	0.2554	-0.9882	8.7496e-01	8.7000e-01
93	PAN130048	9.6425	10.3292	9.9324	1.6312e-01	8.7035e-01
94	PAN120224	5.4552	11.4825	8.3285	1.6546e+00	8.7025e-01
95	PAN130224	3.0358	6.6979	5.1629	1.1967e+00	8.7010e-01
96	PAN120312	-0.9477	3.0196	0.8086	9.6843e-01	8.7000e-01
97	PAN130312	6.2504	9.1495	7.9853	8.1355e-01	8.7023e-01
98	PAB000136	39.8398	40.2518	40.0686	8.9187e-02	5.8859e-01
99	PAB100136	38.1285	38.4031	38.2758	5.8703e-02	5.8784e-01
100	PAB125136	37.3326	37.6531	37.5286	7.4584e-02	5.8754e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.6476	40.1358	39.8771	1.1991e-01	7.5660e-01
102	PRV000001	19.7289	19.7289	19.7289	5.7801e-06	7.5162e-01
103	PSR000001	36.6990	36.8210	36.7600	6.1655e-02	7.5561e-01
104	PFM000001	29.7211	30.3620	30.1002	1.9400e-01	5.0563e-01
105	PAN000136	64.5190	73.6743	69.2248	1.9400e+00	4.9230e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0053	1.3381e-03	0.0000e+00
108	EMPTY	-10.0000	-5.7080	-9.4613	9.8112e-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	144.2646	144.8505	144.5732	1.7241e-01	1.1868e+00
113	VPW000002	168.1002	168.4908	168.3814	1.0559e-01	1.2949e+00
114	VPW000003	0.0526	0.2479	0.1385	9.7935e-02	8.1000e-01
115	VPW000004	148.1483	148.5389	148.3749	1.2072e-01	1.2036e+00
116	VPW000005	197.1642	197.5549	197.2540	1.0595e-01	1.4342e+00
117	VPW000006	-0.0864	0.3042	0.1831	1.0358e-01	8.1000e-01
118	IPW000001	782.9273	788.7844	785.5432	1.7467e+00	1.0204e+01
119	IPW000002	1814.1552	1820.0089	1816.9650	1.2566e+00	1.6482e+01
120	IPW000003	-10.9125	-5.0625	-8.4165	1.0453e+00	8.1003e+00
121	IPW000004	536.3206	537.2971	536.7989	2.8744e-01	4.6887e+00
122	IPW000005	354.3722	355.8369	355.1729	3.0815e-01	3.4457e+00
123	IPW000006	-1.8310	-0.3662	-0.8349	3.5513e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0198	3.6124e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	3.1195e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0151	3.1583e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0146	3.4173e-03	0.0000e+00
128	IHT000001	-1.3784	-0.4019	-0.8081	2.4273e-01	4.1000e+00
129	IHT000002	-1.4048	-0.2329	-0.7368	2.6496e-01	4.1000e+00
130	IHT000003	-1.4536	-0.2817	-0.7895	2.6470e-01	4.1000e+00
131	IHT000004	-1.3747	-0.2028	-0.7262	2.4465e-01	4.1000e+00
132	IHT000005	-1.3784	-0.4019	-0.7730	2.2058e-01	4.1000e+00
133	IHT000006	-1.6226	-0.6460	-1.0679	2.4119e-01	4.1000e+00
134	IHT000007	-1.2320	-0.2554	-0.7202	2.4607e-01	4.1000e+00
135	IHT000008	-1.3296	-0.3531	-0.7398	2.3174e-01	4.1000e+00
136	IHT000009	-1.3935	-0.2216	-0.7802	2.4645e-01	4.1000e+00
137	IHT000010	-1.1193	0.8338	-0.0724	3.9214e-01	4.1000e+00
138	IHT000011	-0.4995	1.2583	0.2270	3.7856e-01	4.1000e+00
139	IHT000012	-0.7512	1.0066	-0.0364	3.7561e-01	4.1000e+00
140	IHT000013	130.4124	132.1702	131.1312	3.8750e-01	4.3046e+00
141	IHT000014	180.6641	182.4219	181.3672	4.1946e-01	4.4832e+00
142	IHT000015	135.1074	136.8652	135.8144	4.0219e-01	4.3191e+00
143	IHT000016	126.0367	127.9898	126.8296	4.2022e-01	4.2917e+00
144	IHT000017	149.2563	152.1860	150.9165	5.6806e-01	4.3689e+00
145	IHT000018	151.7803	154.7100	153.1826	5.6866e-01	4.3768e+00
146	IHT000019	146.7210	149.2601	147.9281	5.9148e-01	4.3587e+00
147	IHT000020	151.1155	153.6546	152.3461	5.8826e-01	4.3739e+00
148	IHT000021	-2.2198	0.9052	-0.5987	6.4627e-01	4.1000e+00
149	IHT000022	131.0584	133.4022	132.3710	5.3239e-01	4.3084e+00
150	IHT000023	148.2121	150.7512	149.6456	5.0933e-01	4.3646e+00
151	IHT000024	113.1949	115.1480	114.4175	4.2464e-01	4.2567e+00
152	IHT000025	147.8591	149.8122	149.0035	4.5337e-01	4.3624e+00
153	IHT000026	149.6357	151.3935	150.5654	4.6615e-01	4.3677e+00
154	IHT000027	127.7006	130.4350	129.3022	5.2940e-01	4.2991e+00
155	IHT000028	130.0255	133.5412	131.0646	6.0030e-01	4.3044e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.5502	151.8705	149.7221	5.9712e-01	4.3648e+00
157	IHT000030	151.3522	154.2819	152.5982	6.0347e-01	4.3748e+00
158	IHT000031	149.4629	152.3926	150.5605	5.9306e-01	4.3677e+00
159	IHT000032	151.2695	154.0039	152.4336	5.9577e-01	4.3742e+00
160	IHT000033	151.2695	154.0039	152.3359	6.2041e-01	4.3739e+00
161	IHT000034	133.1656	135.5093	134.0523	5.1024e-01	4.3136e+00
162	IHT000035	175.2629	177.0207	176.0323	5.0132e-01	4.4619e+00
163	IHT000036	131.4528	133.6013	132.4645	5.4632e-01	4.3087e+00

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Velocity 1 = 0.004700 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.020800 (psi)

Tsat in = 0.224426 (deg F) Tsat out = 0.276886 (deg F)

Phi inner = 0.001100 (kBtu/hr-ft2) Phi outer = 0.518494 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1436	0.1653
1	TRF000002	0.0924	0.1061
2	TFM000001	0.0541	0.0623
3	TIN000001	0.0882	0.1024
4	TRV000001	0.0134	0.0154
5	TSR000001	0.8281	0.7500
6	TAO020136	0.3513	0.6959
7	TAO050136	0.0787	0.0533
8	TAO070136	0.1333	0.0919
9	TAO080136	0.0208	0.0127
10	TAO090136	0.0282	0.0169
11	TAO100136	0.0352	0.0224
12	TAO105136	0.0838	0.0527
13	TAO110136	0.0760	0.0469
14	TAO115136	0.0123	0.0079
15	TAO120136	0.0313	0.0186
16	TAO125136	1.8677	1.3521
17	TAO130136	0.0059	0.0037
18	TAO120048	1.4133	1.5503
19	TAO130048	0.0466	0.0285
20	TAO120224	0.0468	0.0279
21	TAO130224	0.0302	0.0195
22	TAO120312	0.0314	0.0188
23	TAO130312	0.1218	0.0743
24	TRT020000	0.0522	0.0347
25	TRT070000	0.0116	0.0072
26	TRT100000	0.0505	0.0303
27	TRT120000	0.0914	0.0553
28	TRT125000	19.5119	11.8118
29	TRT130000	0.0704	0.0431
30	EMPTY	0.0046	0.0115
31	TAF050136	0.0281	0.0273
32	TAF070136	6.1793	3.2467
33	TAF080136	0.0830	0.0516
34	TAF090136	1.3001	1.5691
35	TAF100136	0.1603	0.1386
36	TAF105136	0.1005	0.0868
37	TAF110136	0.1258	0.1072
38	TAF115136	0.0728	0.0611
39	TAF120136	0.4352	0.3057
40	TAF125136	0.1850	0.1507
41	TAF130136	0.1011	0.0816
42	TAF120048	0.0741	0.0590
43	TAF130048	0.0807	0.0627
44	TAF120224	0.1745	0.1395
45	TAF130224	0.1150	0.0918

#	Name	Abs Diff	%Diff
46	EMPTY	0.0138	0.0363
47	EMPTY	0.0643	0.1632
48	TAI130048	0.1549	0.1256
49	TAI130136	0.1132	0.0916
50	TAI130224	0.1146	0.0939
51	TAI130312	0.0938	0.0765
52	TRR130000	0.4682	0.4276
53	TSI000001	0.0902	0.1381
54	TSI000002	0.0092	0.0125
55	TSO000001	0.0599	0.0923
56	TSO000002	0.0344	0.0477
57	TAF020136	0.0806	0.0879
58	TAF120312	0.1260	0.0998
59	TAF130312	0.2016	0.1511
60	EMPTY	0.0079	0.6106
61	EMPTY	0.0079	0.6076
62	EMPTY	0.0086	0.6595
63	EMPTY	0.0077	0.5858
64	EMPTY	0.0002	0.0271
65	EMPTY	0.0013	0.1717
66	EMPTY	0.0011	0.1421
67	EMPTY	0.0008	0.1010
68	EMPTY	0.0003	0.0372
69	EMPTY	0.0005	0.0606
70	EMPTY	0.0005	0.0596
71	EMPTY	0.0001	0.0116
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0002	0.0220
75	EMPTY	0.0001	0.0108
76	EMPTY	0.0003	0.0319
77	EMPTY	0.0002	0.0209
78	EMPTY	0.0001	0.0102
79	EMPTY	0.0000	0.0000
80	PAN020136	0.6119	6.6950
81	PAN050136	0.4151	2.9525
82	PAN070136	0.1419	1.2427
83	PAN080136	0.1205	2.7904
84	PAN090136	0.2334	6.3753
85	PAN100136	0.7126	19.8573
86	PAN105136	0.3510	15.1300
87	PAN110136	0.0198	0.5348
88	PAN115136	0.1236	2.2236
89	PAN120136	0.0839	1.2467
90	PAN125136	0.1038	13.5051
91	PAN130136	0.0214	1.4471
92	PAN120048	0.1846	22.9716
93	PAN130048	0.4486	4.7302
94	PAN120224	0.3205	4.0022
95	PAN130224	0.9445	15.4648
96	PAN120312	0.1084	15.4813
97	PAN130312	0.2014	2.5874
98	PAB000136	0.1511	0.3757
99	PAB100136	0.1740	0.4525
100	PAB125136	0.1757	0.4660

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0927	0.2319
102	PRV000001	0.0440	0.2235
103	PSR000001	0.1660	0.4495
104	PFM000001	0.0202	0.0672
105	PAN000136	0.5768	0.8402
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0014	20.8955
108	EMPTY	0.6481	7.3537
109	EMPTY	0.0002	4.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.1602	0.1107
113	VPW000002	0.0625	0.0371
114	VPW000003	0.0196	12.3972
115	VPW000004	0.0508	0.0342
116	VPW000005	0.0234	0.0119
117	VPW000006	0.0196	9.6695
118	IPW000001	10.0739	1.2991
119	IPW000002	12.3320	0.6741
120	IPW000003	15.0540	226.8022
121	IPW000004	2.6269	0.4870
122	IPW000005	2.1287	0.5958
123	IPW000006	1.8554	181.8129
124	EMPTY	0.0021	11.8644
125	EMPTY	0.0024	19.6721
126	EMPTY	0.0006	4.1379
127	EMPTY	0.0007	5.0360
128	IHT000001	0.0468	6.1474
129	IHT000002	0.0508	7.4053
130	IHT000003	0.0820	11.5901
131	IHT000004	0.1054	16.9781
132	IHT000005	0.1250	19.2901
133	IHT000006	0.1211	12.7904
134	IHT000007	0.1211	20.2137
135	IHT000008	0.1328	21.8781
136	IHT000009	0.1055	15.6366
137	IHT000010	0.0898	516.0920
138	IHT000011	0.1250	35.5114
139	IHT000012	0.1290	139.3089
140	IHT000013	0.2500	0.1903
141	IHT000014	0.2226	0.1226
142	IHT000015	0.2696	0.1981
143	IHT000016	0.2695	0.2120
144	IHT000017	0.6211	0.4099
145	IHT000018	0.1524	0.0994
146	IHT000019	0.0195	0.0132
147	IHT000020	0.0274	0.0180
148	IHT000021	0.0703	13.3043
149	IHT000022	0.0586	0.0442
150	IHT000023	0.0586	0.0391
151	IHT000024	0.0351	0.0307
152	IHT000025	0.1407	0.0943
153	IHT000026	0.0312	0.0207
154	IHT000027	0.0273	0.0211
155	IHT000028	0.2969	0.2260

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1836	0.1225
157	IHT000030	0.1836	0.1202
158	IHT000031	0.1211	0.0804
159	IHT000032	0.1758	0.1152
160	IHT000033	0.1446	0.0948
161	IHT000034	0.2500	0.1861
162	IHT000035	0.2032	0.1153
163	IHT000036	0.1641	0.1237

Velocity 1 = 8.0669 (ft/sec) (+/- 3.0331 %)
 Velocity 2 = 8.0902 (ft/sec) (+/- 1.9013 %)
 Pressure drop = -2.7314 (psi)
 Tsat in = 267.8458 (deg F) Tsat out = 271.5733 (deg F)
 Phi inner = 0.0009 (kBtu/hr-ft2) (+/- 579.4161 %)
 Phi outer = 200.7083 (kBtu/hr-ft2) (+/- 1.3397 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	86.2206	86.8545	86.6474	1.8844e-01	1.9002e+00
1	TRF000002	86.6347	87.2650	86.8322	1.4339e-01	1.9002e+00
2	TFM000001	86.3518	87.0873	86.7010	1.9048e-01	1.9002e+00
3	TIN000001	85.9016	86.4281	86.1209	1.3936e-01	1.9002e+00
4	TRV000001	86.5293	87.2641	86.8321	1.9144e-01	1.9002e+00
5	TSR000001	113.4733	114.6015	114.0193	2.8344e-01	1.9013e+00
6	TAO020136	50.5342	52.3772	51.6355	4.2320e-01	1.9002e+00
7	TAO050136	180.0928	183.3023	181.8437	7.5673e-01	1.9084e+00
8	TAO070136	176.0614	177.8364	176.7283	3.5766e-01	1.9077e+00
9	TAO080136	203.8676	204.6347	204.2738	1.9532e-01	1.9121e+00
10	TAO090136	209.9810	211.2242	210.5174	3.0701e-01	1.9133e+00
11	TAO100136	198.3177	201.4033	199.4679	7.0271e-01	1.9113e+00
12	TAO105136	200.2725	203.1705	201.0536	5.1084e-01	1.9115e+00
13	TAO110136	205.7761	207.3981	206.5390	3.9093e-01	1.9125e+00
14	TAO115136	198.1553	200.0883	198.8438	4.0862e-01	1.9112e+00
15	TAO120136	211.9895	214.1914	212.8860	4.9108e-01	1.9137e+00
16	TAO125136	166.1732	167.6528	166.9065	3.1907e-01	1.9063e+00
17	TAO130136	201.6833	203.9688	202.3744	3.8530e-01	1.9118e+00
18	TAO120048	92.9349	94.1892	93.6333	3.3070e-01	1.9004e+00
19	TAO130048	209.0627	210.5920	209.8578	3.2643e-01	1.9131e+00
20	TAO120224	212.9996	214.3392	213.5892	3.1483e-01	1.9138e+00
21	TAO130224	195.7760	198.5506	196.8558	6.3039e-01	1.9108e+00
22	TAO120312	214.5909	216.8872	215.4907	4.3090e-01	1.9142e+00
23	TAO130312	208.8578	209.8171	209.3378	2.1389e-01	1.9130e+00
24	TRT020000	185.9938	187.4596	186.7681	2.9403e-01	1.9092e+00
25	TRT070000	202.3986	203.5625	203.0654	2.7674e-01	1.9119e+00
26	TRT100000	211.8542	213.0018	212.4357	2.6812e-01	1.9136e+00
27	TRT120000	214.6805	216.1132	215.3799	3.6268e-01	1.9142e+00
28	TRT125000	172.8216	233.5124	214.1954	1.3078e+01	1.9140e+00
29	TRT130000	207.6996	209.1374	208.4130	2.7068e-01	1.9129e+00
30	EMPTY	39.3761	40.0646	39.8030	2.0742e-01	1.9011e+00
31	TAF050136	116.3859	119.2464	117.7104	6.5447e-01	1.9015e+00
32	TAF070136	124.6962	127.1299	125.6257	6.2516e-01	1.9021e+00
33	TAF080136	199.3502	202.3169	201.1938	6.0540e-01	1.9116e+00
34	TAF090136	84.0681	85.2260	84.7040	2.7465e-01	1.9001e+00
35	TAF100136	139.0146	142.8496	140.8768	9.3897e-01	1.9034e+00
36	TAF105136	139.1385	142.9340	141.4357	7.7252e-01	1.9034e+00
37	TAF110136	141.7986	144.7046	143.5508	6.0693e-01	1.9036e+00
38	TAF115136	144.4256	147.1297	145.7443	4.9103e-01	1.9039e+00
39	TAF120136	175.6869	179.3961	177.0469	7.9030e-01	1.9077e+00
40	TAF125136	151.0652	153.9376	152.5511	6.4779e-01	1.9046e+00
41	TAF130136	153.0582	154.7500	153.9572	3.8329e-01	1.9047e+00
42	TAF120048	155.4056	158.7098	156.7004	6.7611e-01	1.9051e+00
43	TAF130048	160.5126	163.6827	162.0746	6.6778e-01	1.9057e+00
44	TAF120224	153.3856	156.6701	155.1348	6.1168e-01	1.9049e+00
45	TAF130224	154.0480	157.0521	155.4424	6.1127e-01	1.9049e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0572	2.2666e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5276	1.1925e-01	1.9011e+00
48	TAI130048	150.3606	152.0603	151.1045	3.7036e-01	1.9044e+00
49	TAI130136	150.0952	150.8951	150.4912	1.9676e-01	1.9044e+00
50	TAI130224	148.7684	149.7723	149.3149	2.6829e-01	1.9042e+00
51	TAI130312	148.5057	149.6083	149.0830	2.4188e-01	1.9042e+00
52	TRR130000	131.6838	132.6964	132.2430	2.1190e-01	1.9026e+00
53	TSI000001	64.8323	65.7947	65.3844	1.9005e-01	1.9000e+00
54	TSI000002	77.2515	78.2032	77.7128	2.4991e-01	1.9000e+00
55	TSO000001	64.3713	65.3385	64.8396	2.3758e-01	1.9000e+00
56	TSO000002	74.3991	75.2497	74.8163	2.1122e-01	1.9000e+00
57	TAF020136	96.3525	98.9757	97.5534	5.0939e-01	1.9005e+00
58	TAF120312	156.6525	159.5372	158.3595	6.3395e-01	1.9053e+00
59	TAF130312	167.3539	170.7039	169.0927	6.6769e-01	1.9066e+00
60	EMPTY	2.1484	2.1777	2.1630	6.6534e-03	0.0000e+00
61	EMPTY	2.1582	2.1729	2.1611	4.0673e-03	0.0000e+00
62	EMPTY	2.1533	2.1680	2.1595	3.5307e-03	0.0000e+00
63	EMPTY	2.1582	2.1729	2.1646	3.4793e-03	0.0000e+00
64	EMPTY	1.1035	1.1084	1.1047	2.1065e-03	0.0000e+00
65	EMPTY	1.1182	1.1279	1.1241	2.2689e-03	0.0000e+00
66	EMPTY	1.1328	1.1475	1.1380	2.8608e-03	0.0000e+00
67	EMPTY	1.1523	1.1572	1.1537	2.2146e-03	0.0000e+00
68	EMPTY	1.1621	1.1719	1.1649	2.9742e-03	0.0000e+00
69	EMPTY	1.1768	1.1865	1.1796	3.5691e-03	0.0000e+00
70	EMPTY	1.1914	1.1963	1.1933	2.3941e-03	0.0000e+00
71	EMPTY	1.2109	1.2158	1.2126	2.3365e-03	0.0000e+00
72	EMPTY	1.2207	1.2305	1.2236	2.9594e-03	0.0000e+00
73	EMPTY	1.2354	1.2451	1.2421	2.5894e-03	0.0000e+00
74	EMPTY	1.2500	1.2598	1.2544	2.8334e-03	0.0000e+00
75	EMPTY	1.2646	1.2744	1.2703	2.8523e-03	0.0000e+00
76	EMPTY	1.2793	1.2842	1.2817	2.4662e-03	0.0000e+00
77	EMPTY	1.2939	1.3037	1.2982	2.1249e-03	0.0000e+00
78	EMPTY	1.3135	1.3232	1.3185	1.8429e-03	0.0000e+00
79	EMPTY	1.3330	1.3428	1.3381	1.6972e-03	0.0000e+00
80	PAN020136	-13.4173	-3.4228	-8.6902	2.1082e+00	8.7027e-01
81	PAN050136	-24.4357	-13.7546	-18.8327	3.0082e+00	1.6807e+00
82	PAN070136	-11.9044	-4.1987	-8.8145	2.6785e+00	8.7028e-01
83	PAN080136	-14.0791	-5.6104	-12.3136	2.7531e+00	8.7054e-01
84	PAN090136	-13.2045	2.8172	-7.6106	3.7728e+00	8.7021e-01
85	PAN100136	-12.0837	3.0225	-6.4288	3.7108e+00	8.7015e-01
86	PAN105136	-7.7768	8.8552	-3.4082	3.5197e+00	8.7004e-01
87	PAN110136	-7.4378	10.1861	-0.3394	4.6110e+00	8.7000e-01
88	PAN115136	-7.6022	5.5967	-2.7880	3.0066e+00	8.7003e-01
89	PAN120136	-6.0250	10.5308	0.4112	4.3693e+00	8.7000e-01
90	PAN125136	-6.1116	8.4606	-1.9780	3.7317e+00	8.7001e-01
91	PAN130136	-8.0717	7.5686	-1.1305	4.0564e+00	8.7000e-01
92	PAN120048	-12.1042	3.3071	-8.3002	4.1329e+00	8.7025e-01
93	PAN130048	-11.4909	5.9804	-1.7665	3.1347e+00	8.7001e-01
94	PAN120224	-12.5501	8.9648	-4.2692	4.4738e+00	8.7007e-01
95	PAN130224	-13.4437	4.4091	-0.6492	3.4154e+00	8.7000e-01
96	PAN120312	-12.4681	0.1967	-8.7236	3.9637e+00	8.7027e-01
97	PAN130312	-9.9240	2.0542	-2.4075	2.8956e+00	8.7002e-01
98	PAB000136	40.1602	40.5722	40.3213	9.6661e-02	5.8869e-01
99	PAB100136	42.1568	42.7976	42.5779	1.4593e-01	5.8969e-01
100	PAB125136	42.5054	43.1462	42.9100	1.5291e-01	5.8984e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7696	40.3800	40.0699	1.3997e-01	7.5666e-01
102	PRV000001	19.7289	19.8509	19.7484	4.5206e-02	7.5162e-01
103	PSR000001	42.5583	42.6804	42.5852	5.1081e-02	7.5752e-01
104	PFM000001	9.5795	10.0373	9.8780	9.5772e-02	5.0061e-01
105	PAN000136	-81.5076	-65.0281	-75.6208	3.2501e+00	4.9236e+00
106	PFM000002	9.8172	10.0185	9.9356	5.3645e-02	2.0154e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-1.6553	-9.1734	1.3957e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0039	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	144.4599	145.0458	144.7490	1.3805e-01	1.1876e+00
113	VPW000002	168.4908	168.8815	168.6431	1.0654e-01	1.2961e+00
114	VPW000003	0.0526	0.4432	0.1424	1.0595e-01	8.1000e-01
115	VPW000004	148.5389	148.9295	148.7382	1.0052e-01	1.2052e+00
116	VPW000005	197.3595	197.7502	197.5704	9.5357e-02	1.4357e+00
117	VPW000006	-0.0864	0.4995	0.1792	1.0992e-01	8.1000e-01
118	IPW000001	763.4039	769.2609	766.5275	1.3082e+00	1.0113e+01
119	IPW000002	1837.5704	1843.4242	1841.0831	1.5769e+00	1.6648e+01
120	IPW000003	12.4875	16.3875	14.4765	1.2760e+00	8.1008e+00
121	IPW000004	534.3674	536.3206	535.3243	3.6858e-01	4.6781e+00
122	IPW000005	353.8840	355.3487	354.4796	3.3143e-01	3.4412e+00
123	IPW000006	-0.3662	1.0987	0.2295	3.4583e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0198	3.4751e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.6762e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0146	3.8206e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0147	3.6232e-03	0.0000e+00
128	IHT000001	-1.3784	-0.2066	-0.7417	2.8675e-01	4.1000e+00
129	IHT000002	-1.2094	-0.2329	-0.6430	2.6543e-01	4.1000e+00
130	IHT000003	-1.2583	-0.0864	-0.6606	2.9373e-01	4.1000e+00
131	IHT000004	-1.1794	-0.0075	-0.5934	2.7052e-01	4.1000e+00
132	IHT000005	-1.1831	-0.2066	-0.6831	2.6809e-01	4.1000e+00
133	IHT000006	-1.4273	-0.2554	-0.9195	2.8179e-01	4.1000e+00
134	IHT000007	-1.2320	0.1352	-0.5757	2.7835e-01	4.1000e+00
135	IHT000008	-1.1343	0.0376	-0.6187	2.7554e-01	4.1000e+00
136	IHT000009	-1.1982	-0.0263	-0.6552	2.9074e-01	4.1000e+00
137	IHT000010	-0.9240	0.8338	-0.0412	3.8509e-01	4.1000e+00
138	IHT000011	-0.6949	1.0630	0.2817	3.8863e-01	4.1000e+00
139	IHT000012	-0.9465	0.8113	0.0340	3.6908e-01	4.1000e+00
140	IHT000013	130.0218	131.9749	131.0140	4.0786e-01	4.3042e+00
141	IHT000014	180.0781	182.2266	180.9727	4.0643e-01	4.4816e+00
142	IHT000015	134.9121	136.8652	135.6816	3.9736e-01	4.3187e+00
143	IHT000016	125.8414	127.7945	126.5405	3.9674e-01	4.2908e+00
144	IHT000017	149.2563	151.4048	150.2524	4.7062e-01	4.3666e+00
145	IHT000018	151.7803	153.7335	152.7842	4.3227e-01	4.3754e+00
146	IHT000019	146.5257	148.6741	147.4437	4.6897e-01	4.3571e+00
147	IHT000020	151.1155	153.2640	151.9711	4.1739e-01	4.3726e+00
148	IHT000021	-1.8292	0.7099	-0.7667	5.0711e-01	4.1000e+00
149	IHT000022	131.2537	133.2069	131.9100	4.4601e-01	4.3070e+00
150	IHT000023	148.4075	150.3606	149.3761	4.1938e-01	4.3636e+00
151	IHT000024	113.1949	114.9527	114.0816	4.1425e-01	4.2558e+00
152	IHT000025	147.8591	149.6169	148.7379	4.1806e-01	4.3615e+00
153	IHT000026	149.2450	151.3935	150.2099	4.2206e-01	4.3665e+00
154	IHT000027	127.8959	130.0443	128.8217	4.4784e-01	4.2976e+00
155	IHT000028	129.4396	131.9787	130.5450	4.7615e-01	4.3028e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.1595	150.6986	149.2768	5.0692e-01	4.3633e+00
157	IHT000030	151.1569	153.5006	152.2466	5.5114e-01	4.3735e+00
158	IHT000031	149.2676	151.4160	150.2441	5.7993e-01	4.3666e+00
159	IHT000032	151.0742	153.6133	152.1094	6.1921e-01	4.3731e+00
160	IHT000033	150.8789	153.4180	152.0195	5.9889e-01	4.3728e+00
161	IHT000034	133.1656	135.3140	133.9429	4.2221e-01	4.3132e+00
162	IHT000035	174.8723	176.8254	175.7980	4.4083e-01	4.4610e+00
163	IHT000036	131.4528	133.0153	132.2614	4.2865e-01	4.3081e+00

Test: Aug01_23

sum2

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Velocity 1 = 8.0819 (ft/sec) (+/- 3.0253 %)
Velocity 2 = 8.0926 (ft/sec) (+/- 1.9011 %)
Pressure drop = -2.7595 (psi)
Tsats in = 267.7902 (deg F) Tsats out = 271.5489 (deg F)
Phi inner = 0.0011 (kBtu/hr-ft2) (+/- 676.6124 %)
Phi outer = 199.5495 (kBtu/hr-ft2) (+/- 1.3411 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	86.2206	86.8545	86.5376	1.5539e-01	1.9002e+00
1	TRF000002	86.4245	86.8448	86.6894	1.1865e-01	1.9002e+00
2	TFM000001	86.6666	87.4024	87.0321	1.8038e-01	1.9002e+00
3	TIN000001	86.2171	86.7440	86.4072	1.2229e-01	1.9002e+00
4	TRV000001	86.8422	87.5768	87.1869	2.1476e-01	1.9002e+00
5	TSR000001	114.8046	116.7469	115.8142	4.6062e-01	1.9014e+00
6	TAO020136	51.1842	52.7012	52.0170	3.3012e-01	1.9002e+00
7	TAO050136	180.5780	183.3970	181.9710	7.0807e-01	1.9084e+00
8	TAO070136	176.3581	177.7379	176.9258	3.2515e-01	1.9077e+00
9	TAO080136	204.9181	205.8775	205.3745	2.1674e-01	1.9123e+00
10	TAO090136	210.0765	211.3205	210.5475	2.6782e-01	1.9133e+00
11	TAO100136	198.7032	201.7875	199.6756	7.1757e-01	1.9113e+00
12	TAO105136	200.1754	202.7843	201.0535	4.9491e-01	1.9115e+00
13	TAO110136	206.3449	208.0605	206.9680	3.8551e-01	1.9126e+00
14	TAO115136	198.4455	200.8613	199.2419	5.4126e-01	1.9112e+00
15	TAO120136	212.1805	213.8084	212.6943	3.3661e-01	1.9137e+00
16	TAO125136	165.5802	167.0603	166.3299	3.5448e-01	1.9062e+00
17	TAO130136	201.9670	203.1102	202.3421	2.6501e-01	1.9118e+00
18	TAO120048	94.9178	95.9617	95.4401	2.8345e-01	1.9004e+00
19	TAO130048	209.4430	210.7810	209.8761	3.0483e-01	1.9131e+00
20	TAO120224	213.0002	214.7202	213.7495	3.5371e-01	1.9139e+00
21	TAO130224	195.9631	199.4133	197.0231	6.1918e-01	1.9108e+00
22	TAO120312	214.4955	216.5045	215.4447	4.0950e-01	1.9142e+00
23	TAO130312	208.7618	209.7212	209.2415	2.2819e-01	1.9130e+00
24	TRT020000	186.1898	187.5576	186.7798	3.4192e-01	1.9092e+00
25	TRT070000	201.7185	203.2717	202.6972	3.0854e-01	1.9118e+00
26	TRT100000	211.7584	212.7152	212.2328	2.3881e-01	1.9136e+00
27	TRT120000	214.5852	216.1125	215.3375	3.4685e-01	1.9142e+00
28	TRT125000	99.0890	277.7623	190.0668	2.9259e+01	1.9097e+00
29	TRT130000	207.9861	208.7546	208.3014	1.8688e-01	1.9128e+00
30	EMPTY	39.3761	40.2940	39.7847	2.0364e-01	1.9011e+00
31	TAF050136	116.5896	119.3458	117.8567	6.7957e-01	1.9015e+00
32	TAF070136	124.8995	126.9258	126.0544	5.2544e-01	1.9021e+00
33	TAF080136	199.7340	202.9874	201.6212	7.5185e-01	1.9116e+00
34	TAF090136	85.4340	86.5906	86.0694	2.5823e-01	1.9002e+00
35	TAF100136	138.6107	142.6475	140.9575	7.4123e-01	1.9034e+00
36	TAF105136	140.1366	143.7294	141.5262	7.4470e-01	1.9034e+00
37	TAF110136	142.0997	145.0037	143.6982	6.2261e-01	1.9037e+00
38	TAF115136	144.3273	146.9286	145.7837	5.4270e-01	1.9039e+00
39	TAF120136	175.4921	179.1997	176.8977	7.4453e-01	1.9077e+00
40	TAF125136	151.1635	154.0357	152.6726	5.7143e-01	1.9046e+00
41	TAF130136	152.8580	155.2454	154.1436	4.6924e-01	1.9048e+00
42	TAF120048	155.2052	158.0103	156.7250	6.2190e-01	1.9051e+00
43	TAF130048	160.2158	163.9784	162.1652	7.4203e-01	1.9057e+00
44	TAF120224	153.1860	157.2661	155.2657	6.4678e-01	1.9049e+00
45	TAF130224	154.5498	156.7519	155.6311	4.7013e-01	1.9049e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1216	2.0882e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5735	1.0381e-01	1.9011e+00
48	TAI130048	150.6601	151.9599	151.2802	3.2446e-01	1.9044e+00
49	TAI130136	150.4941	151.1937	150.8295	1.4652e-01	1.9044e+00
50	TAI130224	149.0703	150.2739	149.6318	2.8227e-01	1.9043e+00
51	TAI130312	149.0060	149.9089	149.3554	2.0279e-01	1.9042e+00
52	TRR130000	131.8860	132.8978	132.3312	2.7491e-01	1.9026e+00
53	TSI000001	65.3654	66.0080	65.7379	1.5764e-01	1.9000e+00
54	TSI000002	77.5681	78.7312	78.0881	2.4879e-01	1.9000e+00
55	TSO000001	64.8015	65.6615	65.2830	2.1842e-01	1.9000e+00
56	TSO000002	74.8248	75.5676	75.1684	1.7755e-01	1.9000e+00
57	TAF020136	96.1444	98.8711	97.7638	4.9247e-01	1.9005e+00
58	TAF120312	156.3533	159.9341	158.4706	8.4709e-01	1.9053e+00
59	TAF130312	168.2417	170.2118	169.1790	4.7604e-01	1.9066e+00
60	EMPTY	2.1582	2.1777	2.1682	5.3087e-03	0.0000e+00
61	EMPTY	2.1582	2.1729	2.1659	4.0781e-03	0.0000e+00
62	EMPTY	2.1582	2.1680	2.1641	3.1195e-03	0.0000e+00
63	EMPTY	2.1631	2.1729	2.1686	2.7267e-03	0.0000e+00
64	EMPTY	1.1035	1.1084	1.1053	2.3675e-03	0.0000e+00
65	EMPTY	1.1230	1.1279	1.1241	2.0432e-03	0.0000e+00
66	EMPTY	1.1328	1.1377	1.1374	1.1714e-03	0.0000e+00
67	EMPTY	1.1523	1.1572	1.1532	1.8950e-03	0.0000e+00
68	EMPTY	1.1621	1.1670	1.1647	2.4583e-03	0.0000e+00
69	EMPTY	1.1768	1.1865	1.1796	2.6267e-03	0.0000e+00
70	EMPTY	1.1914	1.1963	1.1915	6.9053e-04	0.0000e+00
71	EMPTY	1.2109	1.2158	1.2111	9.6655e-04	0.0000e+00
72	EMPTY	1.2207	1.2256	1.2231	2.4662e-03	0.0000e+00
73	EMPTY	1.2354	1.2402	1.2401	6.9053e-04	0.0000e+00
74	EMPTY	1.2500	1.2549	1.2526	2.4583e-03	0.0000e+00
75	EMPTY	1.2646	1.2695	1.2680	2.3008e-03	0.0000e+00
76	EMPTY	1.2744	1.2793	1.2791	9.6655e-04	0.0000e+00
77	EMPTY	1.2939	1.2988	1.2955	2.3008e-03	0.0000e+00
78	EMPTY	1.3135	1.3184	1.3162	2.4484e-03	0.0000e+00
79	EMPTY	1.3330	1.3379	1.3359	2.4164e-03	0.0000e+00
80	PAN020136	-12.5781	-3.8043	-9.0197	1.7998e+00	8.7029e-01
81	PAN050136	-23.3676	-13.6020	-17.8378	1.9396e+00	1.6806e+00
82	PAN070136	-11.8281	-5.1906	-9.7056	1.7806e+00	8.7034e-01
83	PAN080136	-14.0028	-5.4579	-11.5171	3.1588e+00	8.7048e-01
84	PAN090136	-13.2045	3.1987	-8.4056	4.3568e+00	8.7025e-01
85	PAN100136	-12.1600	2.6411	-5.3790	3.9312e+00	8.7010e-01
86	PAN105136	-7.7768	8.0160	-4.2444	3.8686e+00	8.7006e-01
87	PAN110136	-7.3615	7.7447	-1.1909	3.7810e+00	8.7001e-01
88	PAN115136	-7.6022	11.9291	-0.9798	4.2160e+00	8.7000e-01
89	PAN120136	-6.1013	9.5390	-1.4687	4.0224e+00	8.7001e-01
90	PAN125136	-6.1116	7.4688	-2.8203	3.4910e+00	8.7003e-01
91	PAN130136	-8.0717	6.5768	-0.5735	3.6753e+00	8.7000e-01
92	PAN120048	-12.0279	3.3071	-7.8211	2.9071e+00	8.7022e-01
93	PAN130048	-9.9650	9.1085	-0.4176	3.8564e+00	8.7000e-01
94	PAN120224	-5.9888	3.8531	-2.6991	2.0651e+00	8.7003e-01
95	PAN130224	-12.8333	7.2320	-1.9614	4.2512e+00	8.7001e-01
96	PAN120312	-12.4681	1.6463	-7.6631	4.6325e+00	8.7021e-01
97	PAN130312	-10.5343	1.0624	-3.0834	3.4431e+00	8.7003e-01
98	PAB000136	40.1144	40.5264	40.2838	9.1669e-02	5.8868e-01
99	PAB100136	42.1568	42.7519	42.4827	1.4166e-01	5.8964e-01
100	PAB125136	42.4138	43.1462	42.8926	1.5230e-01	5.8983e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0138	40.5021	40.2115	1.1799e-01	7.5671e-01
102	PRV000001	19.6068	19.7289	19.6556	6.0409e-02	7.5161e-01
103	PSR000001	42.5583	42.8025	42.5974	6.2585e-02	7.5752e-01
104	PFM000001	9.7626	10.1288	9.9146	1.0233e-01	5.0061e-01
105	PAN000136	-79.6766	-64.5704	-76.3989	2.9614e+00	4.9237e+00
106	PFM000002	9.8507	10.0353	9.9410	3.9952e-02	2.0154e-01
107	EMPTY	-0.0049	0.0049	0.0040	2.3531e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-6.1567	6.6654e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0017	3.3613e-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	144.2646	144.8505	144.6631	1.6250e-01	1.1872e+00
113	VPW000002	168.2955	168.6862	168.5181	1.1168e-01	1.2955e+00
114	VPW000003	0.0526	0.2479	0.1190	9.3461e-02	8.1000e-01
115	VPW000004	147.9530	148.5389	148.2499	1.1327e-01	1.2030e+00
116	VPW000005	197.1642	197.7502	197.4845	1.1679e-01	1.4353e+00
117	VPW000006	-0.0864	0.4995	0.1831	1.1765e-01	8.1000e-01
118	IPW000001	761.4515	765.3563	763.9504	1.1859e+00	1.0101e+01
119	IPW000002	1827.8141	1833.6678	1829.9990	1.7910e+00	1.6572e+01
120	IPW000003	16.3875	22.2375	19.7415	1.1845e+00	8.1015e+00
121	IPW000004	529.4846	530.9495	530.2755	4.2875e-01	4.6421e+00
122	IPW000005	354.8605	356.3252	355.8955	3.2175e-01	3.4504e+00
123	IPW000006	0.1221	1.0987	0.5811	3.3322e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0191	4.0482e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.9280e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0155	3.0708e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0142	2.8334e-03	0.0000e+00
128	IHT000001	-1.5738	-0.4019	-0.7964	2.8588e-01	4.1000e+00
129	IHT000002	-1.4048	-0.2329	-0.7485	2.9200e-01	4.1000e+00
130	IHT000003	-1.4536	-0.2817	-0.7973	2.8662e-01	4.1000e+00
131	IHT000004	-1.1794	-0.0075	-0.6481	2.5278e-01	4.1000e+00
132	IHT000005	-1.3784	-0.0113	-0.6870	2.6532e-01	4.1000e+00
133	IHT000006	-1.6226	-0.0601	-0.9624	3.0791e-01	4.1000e+00
134	IHT000007	-1.4273	0.1352	-0.6577	3.1913e-01	4.1000e+00
135	IHT000008	-1.3296	0.0376	-0.6851	2.8248e-01	4.1000e+00
136	IHT000009	-1.5888	-0.0263	-0.7074	2.8179e-01	4.1000e+00
137	IHT000010	-0.7287	0.6385	0.0174	4.0566e-01	4.1000e+00
138	IHT000011	-0.4995	1.2583	0.3442	4.1091e-01	4.1000e+00
139	IHT000012	-0.7512	1.0066	0.0457	4.0210e-01	4.1000e+00
140	IHT000013	129.8265	131.9749	130.6781	4.3897e-01	4.3032e+00
141	IHT000014	179.8828	182.0313	180.9531	4.5032e-01	4.4816e+00
142	IHT000015	134.5215	136.2793	135.3769	4.2661e-01	4.3177e+00
143	IHT000016	125.6460	127.7945	126.6577	4.3529e-01	4.2912e+00
144	IHT000017	149.8423	152.5766	151.0923	6.2265e-01	4.3695e+00
145	IHT000018	151.9756	154.9053	152.9248	5.6083e-01	4.3759e+00
146	IHT000019	146.5257	148.4788	147.5648	4.8075e-01	4.3575e+00
147	IHT000020	151.1155	153.2640	152.0765	4.3376e-01	4.3730e+00
148	IHT000021	-1.6339	0.7099	-0.6026	5.4396e-01	4.1000e+00
149	IHT000022	131.0584	133.0116	132.0780	4.3991e-01	4.3075e+00
150	IHT000023	148.4075	150.3606	149.3527	4.2197e-01	4.3636e+00
151	IHT000024	113.1949	114.9527	114.1401	4.2381e-01	4.2559e+00
152	IHT000025	147.8591	149.4216	148.7379	4.3984e-01	4.3615e+00
153	IHT000026	149.4403	151.1982	150.2529	4.2747e-01	4.3666e+00
154	IHT000027	127.8959	130.0443	128.9467	4.8310e-01	4.2980e+00
155	IHT000028	129.8302	131.7834	130.7794	4.9128e-01	4.3035e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.3549	150.5033	149.3706	5.0686e-01	4.3636e+00
157	IHT000030	151.3522	153.5006	152.2935	5.3480e-01	4.3737e+00
158	IHT000031	149.2676	151.4160	150.2637	5.0724e-01	4.3667e+00
159	IHT000032	151.2695	153.4180	152.1367	5.3983e-01	4.3732e+00
160	IHT000033	151.0742	153.4180	152.0586	5.6629e-01	4.3729e+00
161	IHT000034	132.7749	134.3374	133.4702	3.7259e-01	4.3118e+00
162	IHT000035	174.6770	176.6301	175.6261	4.4470e-01	4.4603e+00
163	IHT000036	131.2575	132.8200	131.8161	3.7644e-01	4.3067e+00

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Velocity 1 = 0.014999 (ft/sec)

Velocity 2 = 0.002399 (ft/sec)

Pressure Drop = 0.028100 (psi)

Tsat in = 0.055603 (deg F) Tsat out = 0.024414 (deg F)

Phi inner = 0.000200 (kBtu/hr-ft2) Phi outer = 1.158798 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1098	0.1267
1	TRF000002	0.1428	0.1645
2	TFM000001	0.3311	0.3819
3	TIN000001	0.2863	0.3324
4	TRV000001	0.3548	0.4086
5	TSR000001	1.7949	1.5742
6	TAO020136	0.3815	0.7388
7	TAO050136	0.1273	0.0700
8	TAO070136	0.1975	0.1118
9	TAO080136	1.1007	0.5388
10	TAO090136	0.0301	0.0143
11	TAO100136	0.2077	0.1041
12	TAO105136	0.0001	0.0001
13	TAO110136	0.4290	0.2077
14	TAO115136	0.3981	0.2002
15	TAO120136	0.1917	0.0900
16	TAO125136	0.5766	0.3455
17	TAO130136	0.0323	0.0160
18	TAO120048	1.8068	1.9297
19	TAO130048	0.0183	0.0087
20	TAO120224	0.1603	0.0750
21	TAO130224	0.1673	0.0850
22	TAO120312	0.0460	0.0213
23	TAO130312	0.0963	0.0460
24	TRT020000	0.0117	0.0063
25	TRT070000	0.3682	0.1813
26	TRT100000	0.2029	0.0955
27	TRT120000	0.0424	0.0197
28	TRT125000	24.1286	11.2648
29	TRT130000	0.1116	0.0535
30	EMPTY	0.0183	0.0460
31	TAF050136	0.1463	0.1243
32	TAF070136	0.4287	0.3412
33	TAF080136	0.4274	0.2124
34	TAF090136	1.3654	1.6120
35	TAF100136	0.0807	0.0573
36	TAF105136	0.0905	0.0640
37	TAF110136	0.1474	0.1027
38	TAF115136	0.0394	0.0270
39	TAF120136	0.1492	0.0843
40	TAF125136	0.1215	0.0796
41	TAF130136	0.1864	0.1211
42	TAF120048	0.0246	0.0157
43	TAF130048	0.0906	0.0559
44	TAF120224	0.1309	0.0844
45	TAF130224	0.1887	0.1214

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dif

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#	Name	Abs Diff	%Diff
46	EMPTY	0.0644	0.1692
47	EMPTY	0.0459	0.1161
48	TAI130048	0.1757	0.1163
49	TAI130136	0.3383	0.2248
50	TAI130224	0.3169	0.2122
51	TAI130312	0.2724	0.1827
52	TRR130000	0.0882	0.0667
53	TSI000001	0.3535	0.5406
54	TSI000002	0.3753	0.4829
55	TSO000001	0.4434	0.6838
56	TSO000002	0.3521	0.4706
57	TAF020136	0.2104	0.2157
58	TAF120312	0.1111	0.0702
59	TAF130312	0.0863	0.0510
60	EMPTY	0.0052	0.2404
61	EMPTY	0.0048	0.2221
62	EMPTY	0.0046	0.2130
63	EMPTY	0.0040	0.1848
64	EMPTY	0.0006	0.0543
65	EMPTY	0.0000	0.0000
66	EMPTY	0.0006	0.0527
67	EMPTY	0.0005	0.0433
68	EMPTY	0.0002	0.0172
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0018	0.1508
71	EMPTY	0.0015	0.1237
72	EMPTY	0.0005	0.0409
73	EMPTY	0.0020	0.1610
74	EMPTY	0.0018	0.1435
75	EMPTY	0.0023	0.1811
76	EMPTY	0.0026	0.2029
77	EMPTY	0.0027	0.2080
78	EMPTY	0.0023	0.1744
79	EMPTY	0.0022	0.1644
80	PAN020136	0.3295	3.7916
81	PAN050136	0.9949	5.2828
82	PAN070136	0.8911	10.1095
83	PAN080136	0.7965	6.4685
84	PAN090136	0.7950	10.4460
85	PAN100136	1.0498	16.3296
86	PAN105136	0.8362	24.5349
87	PAN110136	0.8515	250.8839
88	PAN115136	1.8082	64.8565
89	PAN120136	1.8799	457.1741
90	PAN125136	0.8423	42.5834
91	PAN130136	0.5570	49.2702
92	PAN120048	0.4791	5.7722
93	PAN130048	1.3489	76.3600
94	PAN120224	1.5701	36.7774
95	PAN130224	1.3122	202.1257
96	PAN120312	1.0605	12.1567
97	PAN130312	0.6759	28.0748
98	PAB000136	0.0375	0.0930
99	PAB100136	0.0952	0.2236
100	PAB125136	0.0174	0.0405

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1416	0.3534
102	PRV000001	0.0928	0.4699
103	PSR000001	0.0122	0.0286
104	PFM000001	0.0366	0.3705
105	PAN000136	0.7781	1.0290
106	PFM000002	0.0054	0.0543
107	EMPTY	0.0009	18.3673
108	EMPTY	3.0167	32.8853
109	EMPTY	0.0022	56.4103
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0859	0.0593
113	VPW000002	0.1250	0.0741
114	VPW000003	0.0234	16.4326
115	VPW000004	0.4883	0.3283
116	VPW000005	0.0859	0.0435
117	VPW000006	0.0039	2.1763
118	IPW000001	2.5771	0.3362
119	IPW000002	11.0841	0.6020
120	IPW000003	5.2650	36.3693
121	IPW000004	5.0488	0.9431
122	IPW000005	1.4159	0.3994
123	IPW000006	0.3516	153.2026
124	EMPTY	0.0007	3.5354
125	EMPTY	0.0005	3.5971
126	EMPTY	0.0009	6.1644
127	EMPTY	0.0005	3.4014
128	IHT000001	0.0547	7.3750
129	IHT000002	0.1055	16.4075
130	IHT000003	0.1367	20.6933
131	IHT000004	0.0547	9.2181
132	IHT000005	0.0039	0.5709
133	IHT000006	0.0429	4.6656
134	IHT000007	0.0820	14.2435
135	IHT000008	0.0664	10.7322
136	IHT000009	0.0742	11.3248
137	IHT000010	0.0586	142.2330
138	IHT000011	0.0625	22.1867
139	IHT000012	0.0117	34.4118
140	IHT000013	0.3359	0.2564
141	IHT000014	0.0196	0.0108
142	IHT000015	0.3047	0.2246
143	IHT000016	0.1172	0.0926
144	IHT000017	0.8399	0.5590
145	IHT000018	0.1406	0.0920
146	IHT000019	0.1211	0.0821
147	IHT000020	0.1054	0.0694
148	IHT000021	0.1641	21.4034
149	IHT000022	0.1680	0.1274
150	IHT000023	0.0234	0.0157
151	IHT000024	0.0585	0.0513
152	IHT000025	0.0000	0.0000
153	IHT000026	0.0430	0.0286
154	IHT000027	0.1250	0.0970
155	IHT000028	0.2344	0.1796

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0938	0.0628
157	IHT000030	0.0469	0.0308
158	IHT000031	0.0196	0.0131
159	IHT000032	0.0273	0.0179
160	IHT000033	0.0391	0.0257
161	IHT000034	0.4727	0.3529
162	IHT000035	0.1719	0.0978
163	IHT000036	0.4453	0.3367

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sum1

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Velocity 1 = 4.0722 (ft/sec) (+/- 10.2976 %)

Velocity 2 = 4.0712 (ft/sec) (+/- 4.0234 %)

Pressure drop = -5.0046 (psi)

Tsat in = 267.7427 (deg F) Tsat out = 274.8734 (deg F)

Phi inner = -0.0004 (kBtu/hr-ft2) (+/- 555.4529 %)

Phi outer = 200.5908 (kBtu/hr-ft2) (+/- 1.3394 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	86.0093	86.6432	86.2291	1.9548e-01	1.9002e+00
1	TRF000002	86.2143	86.8448	86.5044	1.4012e-01	1.9002e+00
2	TFM000001	87.0846	88.0301	87.6371	2.0104e-01	1.9002e+00
3	TIN000001	86.7434	87.4801	87.0740	1.5191e-01	1.9002e+00
4	TRV000001	87.1550	88.0970	87.6473	2.0433e-01	1.9002e+00
5	TSR000001	120.4136	121.9427	121.1503	4.2175e-01	1.9018e+00
6	TAO020136	51.4016	56.7012	54.2179	1.1307e+00	1.9002e+00
7	TAO050136	240.7019	242.9410	241.7193	4.9015e-01	1.9198e+00
8	TAO070136	239.1894	243.4383	241.0126	9.7759e-01	1.9196e+00
9	TAO080136	274.5865	275.5974	275.1396	2.2204e-01	1.9281e+00
10	TAO090136	279.2519	280.1700	279.6798	2.6392e-01	1.9294e+00
11	TAO100136	270.8810	273.9219	272.5088	7.3613e-01	1.9274e+00
12	TAO105136	276.5920	279.6311	278.0642	7.6945e-01	1.9289e+00
13	TAO110136	281.7564	283.7508	282.8648	4.2173e-01	1.9303e+00
14	TAO115136	279.7480	281.7705	280.7136	4.9522e-01	1.9297e+00
15	TAO120136	289.2912	290.1140	289.6873	2.1266e-01	1.9322e+00
16	TAO125136	223.4293	226.1778	224.6450	6.6217e-01	1.9160e+00
17	TAO130136	283.6293	286.2465	285.0721	5.9768e-01	1.9309e+00
18	TAO120048	98.4586	99.8120	99.1435	2.9208e-01	1.9006e+00
19	TAO130048	287.8196	289.3696	288.6789	3.5087e-01	1.9319e+00
20	TAO120224	288.9305	290.4828	289.8170	3.5748e-01	1.9323e+00
21	TAO130224	276.5756	278.4927	277.4970	4.6216e-01	1.9288e+00
22	TAO120312	286.7450	288.6687	287.4358	3.5325e-01	1.9316e+00
23	TAO130312	288.5574	289.7441	289.1438	2.6385e-01	1.9321e+00
24	TRT020000	254.4097	257.0260	255.8880	5.9180e-01	1.9231e+00
25	TRT070000	273.7250	275.2094	274.5844	3.1568e-01	1.9280e+00
26	TRT100000	286.1978	287.2949	286.6423	2.6536e-01	1.9314e+00
27	TRT120000	286.5548	288.1091	287.3467	3.4868e-01	1.9316e+00
28	TRT125000	267.0344	300.8266	289.6865	5.3754e+00	1.9322e+00
29	TRT130000	285.9030	287.4564	286.8661	3.1528e-01	1.9314e+00
30	EMPTY	39.3761	40.2940	39.8398	2.1988e-01	1.9011e+00
31	TAF050136	156.4487	160.5096	158.5875	1.0146e+00	1.9053e+00
32	TAF070136	174.6493	179.3320	177.2647	1.0717e+00	1.9077e+00
33	TAF080136	264.8197	266.5668	265.7017	4.5141e-01	1.9256e+00
34	TAF090136	86.7982	87.8488	87.3341	2.6924e-01	1.9002e+00
35	TAF100136	202.9815	207.4160	204.8395	1.0088e+00	1.9122e+00
36	TAF105136	207.4188	213.0269	210.4494	1.1214e+00	1.9132e+00
37	TAF110136	213.6756	218.3341	216.0363	1.2659e+00	1.9143e+00
38	TAF115136	218.7456	223.7785	221.1078	1.3257e+00	1.9153e+00
39	TAF120136	265.4433	270.2286	266.6040	9.3458e-01	1.9259e+00
40	TAF125136	231.1280	238.4254	234.2843	1.6343e+00	1.9181e+00
41	TAF130136	233.2907	240.6258	237.5650	1.6039e+00	1.9188e+00
42	TAF120048	224.5801	230.5911	227.4392	1.3876e+00	1.9166e+00
43	TAF130048	237.2352	243.7149	239.8540	1.4489e+00	1.9193e+00
44	TAF120224	219.9463	224.4105	222.3093	1.0118e+00	1.9156e+00
45	TAF130224	225.9827	229.9845	227.9486	1.0251e+00	1.9167e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1170	2.0897e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9820	1.5897e-01	1.9011e+00
48	TAI130048	220.7764	226.2893	224.0497	1.2450e+00	1.9159e+00
49	TAI130136	223.6278	227.4133	225.0344	7.7113e-01	1.9161e+00
50	TAI130224	215.9739	218.8441	216.9907	5.1138e-01	1.9145e+00
51	TAI130312	213.7323	216.3158	214.6949	5.7993e-01	1.9141e+00
52	TRR130000	186.7585	189.8647	187.4718	5.6798e-01	1.9093e+00
53	TSI000001	68.1342	68.7747	68.5331	1.4906e-01	1.9000e+00
54	TSI000002	91.1165	92.0571	91.5122	2.4644e-01	1.9003e+00
55	TSO000001	67.3810	68.1313	67.8501	1.8867e-01	1.9000e+00
56	TSO000002	83.0742	84.0237	83.4564	1.8571e-01	1.9001e+00
57	TAF020136	113.5629	117.9058	116.0936	9.2143e-01	1.9014e+00
58	TAF120312	226.8805	232.9409	229.0014	1.3814e+00	1.9170e+00
59	TAF130312	255.9257	259.7333	257.7231	7.9227e-01	1.9236e+00
60	EMPTY	4.3994	4.4385	4.4130	7.5315e-03	0.0000e+00
61	EMPTY	4.3848	4.4092	4.3916	4.8327e-03	0.0000e+00
62	EMPTY	4.3652	4.3799	4.3699	4.1806e-03	0.0000e+00
63	EMPTY	4.3555	4.3652	4.3592	3.0501e-03	0.0000e+00
64	EMPTY	2.0654	2.0752	2.0704	1.8429e-03	0.0000e+00
65	EMPTY	2.0801	2.0850	2.0832	2.3675e-03	0.0000e+00
66	EMPTY	2.0898	2.0947	2.0901	1.1714e-03	0.0000e+00
67	EMPTY	2.0996	2.1094	2.1001	1.7784e-03	0.0000e+00
68	EMPTY	2.1045	2.1094	2.1048	1.1714e-03	0.0000e+00
69	EMPTY	2.1143	2.1143	2.1143	0.0000e+00	0.0000e+00
70	EMPTY	2.1191	2.1240	2.1207	2.3008e-03	0.0000e+00
71	EMPTY	2.1338	2.1387	2.1350	2.1065e-03	0.0000e+00
72	EMPTY	2.1338	2.1436	2.1402	2.5034e-03	0.0000e+00
73	EMPTY	2.1484	2.1533	2.1530	1.1714e-03	0.0000e+00
74	EMPTY	2.1533	2.1680	2.1593	2.4741e-03	0.0000e+00
75	EMPTY	2.1680	2.1729	2.1684	1.3381e-03	0.0000e+00
76	EMPTY	2.1729	2.1777	2.1759	2.3941e-03	0.0000e+00
77	EMPTY	2.1826	2.1875	2.1872	1.1714e-03	0.0000e+00
78	EMPTY	2.1973	2.2021	2.2017	1.4797e-03	0.0000e+00
79	EMPTY	2.2119	2.2217	2.2167	1.2041e-03	0.0000e+00
80	PAN020136	-14.7906	-9.7552	-13.6615	8.5237e-01	8.7067e-01
81	PAN050136	-26.4194	-23.3676	-25.1865	7.3589e-01	1.6812e+00
82	PAN070136	-17.3213	-13.7355	-15.4902	7.2902e-01	8.7086e-01
83	PAN080136	-14.0791	-13.3924	-13.9540	1.1714e-01	8.7070e-01
84	PAN090136	-13.2045	-9.3898	-12.6353	8.9376e-01	8.7057e-01
85	PAN100136	-12.2363	-12.0074	-12.1279	5.1330e-02	8.7053e-01
86	PAN105136	-7.7768	23.3511	5.8416	8.3740e+00	8.7012e-01
87	PAN110136	-7.4378	15.5267	0.5334	6.5950e+00	8.7000e-01
88	PAN115136	-7.6022	8.8773	-2.7804	4.4830e+00	8.7003e-01
89	PAN120136	-6.0250	4.5799	-4.2275	2.4317e+00	8.7006e-01
90	PAN125136	-6.0353	17.6921	-3.1804	5.4463e+00	8.7004e-01
91	PAN130136	-5.1725	19.5467	5.8474	6.2617e+00	8.7012e-01
92	PAN120048	-12.0279	18.2608	-1.3590	8.0967e+00	8.7001e-01
93	PAN130048	-6.9133	14.5253	-0.8174	4.0709e+00	8.7000e-01
94	PAN120224	-12.5501	19.7222	-1.4570	9.7835e+00	8.7001e-01
95	PAN130224	-5.6617	4.1039	-0.8414	2.2254e+00	8.7000e-01
96	PAN120312	-12.3918	12.9378	-0.8378	6.8286e+00	8.7000e-01
97	PAN130312	-9.0847	2.0542	-2.4822	2.4505e+00	8.7002e-01
98	PAB000136	40.1144	40.5264	40.2517	6.4738e-02	5.8866e-01
99	PAB100136	44.2625	45.4985	44.9116	2.4741e-01	5.9077e-01
100	PAB125136	44.6569	46.0301	45.3179	3.0911e-01	5.9096e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.7696	40.5021	40.0162	1.4484e-01	7.5664e-01
102	PRV0000001	19.6068	19.7289	19.6898	5.7521e-02	7.5161e-01
103	PSR0000001	44.6335	44.7556	44.6433	3.3453e-02	7.5826e-01
104	PFM0000001	2.3469	2.6215	2.4604	7.7509e-02	5.0004e-01
105	PAN000136	-149.7144	-126.3685	-138.5541	4.5971e+00	4.9322e+00
106	PFM0000002	2.4173	2.5012	2.4592	2.2804e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	0.0004	4.0482e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-5.7014	6.1247e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0003	3.0261e-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	VPW0000001	144.6552	145.8271	145.2607	2.6543e-01	1.1898e+00
113	VPW0000002	168.8815	169.4674	169.1587	1.4812e-01	1.2985e+00
114	VPW0000003	0.0526	0.4432	0.1424	1.0595e-01	8.1000e-01
115	VPW0000004	148.7342	149.5155	149.1327	2.1598e-01	1.2070e+00
116	VPW0000005	197.7502	198.7267	198.2149	2.2283e-01	1.4389e+00
117	VPW0000006	-0.0864	0.3042	0.1831	1.2409e-01	8.1000e-01
118	IPW0000001	777.0703	786.8320	782.4980	2.2758e+00	1.0189e+01
119	IPW0000002	1802.4475	1820.0089	1812.6722	3.7927e+00	1.6452e+01
120	IPW0000003	-10.9125	-3.1125	-6.8175	2.4994e+00	8.1002e+00
121	IPW0000004	535.8323	540.2268	537.7169	1.0109e+00	4.6952e+00
122	IPW0000005	353.3958	355.8369	354.5480	6.0612e-01	3.4417e+00
123	IPW0000006	-0.3662	0.6104	0.1319	3.6232e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0195	3.5568e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0127	3.4173e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0148	3.5513e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0145	3.4116e-03	0.0000e+00
128	IHT0000001	-1.3784	-0.0113	-0.8238	2.7155e-01	4.1000e+00
129	IHT0000002	-1.2094	-0.0376	-0.7602	2.5950e-01	4.1000e+00
130	IHT0000003	-1.2583	-0.2817	-0.8169	2.6707e-01	4.1000e+00
131	IHT0000004	-1.1794	-0.2028	-0.7341	2.5585e-01	4.1000e+00
132	IHT0000005	-1.1831	-0.2066	-0.7534	2.3675e-01	4.1000e+00
133	IHT0000006	-1.6226	-0.4507	-1.0171	2.7124e-01	4.1000e+00
134	IHT0000007	-1.2320	-0.0601	-0.7085	2.7463e-01	4.1000e+00
135	IHT0000008	-1.3296	-0.1578	-0.7476	2.6320e-01	4.1000e+00
136	IHT0000009	-1.1982	-0.2216	-0.7411	2.6355e-01	4.1000e+00
137	IHT0000010	-1.1193	0.6385	-0.0216	3.9634e-01	4.1000e+00
138	IHT0000011	-0.8902	1.0630	0.2934	4.2206e-01	4.1000e+00
139	IHT0000012	-1.1418	0.8113	0.0183	4.1462e-01	4.1000e+00
140	IHT0000013	129.2405	131.5843	130.5726	4.5624e-01	4.3029e+00
141	IHT0000014	179.1016	181.4453	180.4570	4.8714e-01	4.4796e+00
142	IHT0000015	133.9355	135.8887	135.2637	4.1196e-01	4.3174e+00
143	IHT0000016	125.0601	127.0132	126.2905	4.0673e-01	4.2901e+00
144	IHT0000017	149.0610	151.9907	150.5181	6.8027e-01	4.3676e+00
145	IHT0000018	151.3897	153.7335	152.5615	4.8004e-01	4.3746e+00
146	IHT0000019	145.9397	148.2835	147.2836	4.7292e-01	4.3565e+00
147	IHT0000020	150.3343	152.6780	151.7914	5.0718e-01	4.3720e+00
148	IHT0000021	-2.2198	0.5146	-0.5557	5.5557e-01	4.1000e+00
149	IHT0000022	130.4725	132.8162	131.9139	5.3363e-01	4.3070e+00
150	IHT0000023	147.8215	149.9700	148.9972	5.1219e-01	4.3623e+00
151	IHT0000024	112.4136	114.7574	113.8276	5.0155e-01	4.2551e+00
152	IHT0000025	146.8825	149.2263	148.3668	5.3670e-01	4.3602e+00
153	IHT0000026	148.4638	150.8075	149.8271	5.2570e-01	4.3652e+00
154	IHT0000027	127.1146	129.4584	128.5717	5.0718e-01	4.2969e+00
155	IHT0000028	129.2443	131.9787	130.5607	6.3725e-01	4.3029e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	147.9642	150.5033	149.1010	6.0450e-01	4.3627e+00
157	IHT000030	150.7662	153.6959	152.0552	5.9582e-01	4.3729e+00
158	IHT000031	148.8770	151.6113	149.9941	5.7323e-01	4.3658e+00
159	IHT000032	150.8789	153.2227	151.8320	5.3181e-01	4.3721e+00
160	IHT000033	150.8789	153.0273	151.7187	4.9166e-01	4.3717e+00
161	IHT000034	132.5796	134.5327	133.4155	4.5854e-01	4.3116e+00
162	IHT000035	174.4817	176.2395	175.2042	4.4860e-01	4.4587e+00
163	IHT000036	130.8669	132.6247	131.7106	4.0518e-01	4.3064e+00

Test: Aug01_24

sum2

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Velocity 1 = 4.0767 (ft/sec) (+/- 10.2753 %)
Velocity 2 = 4.0664 (ft/sec) (+/- 4.0316 %)
Pressure drop = -4.9560 (psi)
Tsats in = 268.1041 (deg F) Tsats out = 275.2370 (deg F)
Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 643.4630 %)
Phi outer = 200.1227 (kBtu/hr-ft2) (+/- 1.3403 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.7979	86.4319	86.1488	2.0304e-01	1.9002e+00
1	TRF000002	86.2143	86.6347	86.3615	1.2915e-01	1.9002e+00
2	TFM000001	87.5041	88.2395	87.8695	2.1345e-01	1.9002e+00
3	TIN000001	87.0587	87.4805	87.2991	1.3633e-01	1.9002e+00
4	TRV000001	87.7816	88.5155	88.1504	1.8480e-01	1.9002e+00
5	TSR000001	124.3795	128.4360	127.0854	1.0269e+00	1.9022e+00
6	TAO020136	53.4591	56.8093	54.9340	6.5760e-01	1.9002e+00
7	TAO050136	240.6057	242.9426	241.5970	4.5757e-01	1.9197e+00
8	TAO070136	240.3238	243.5335	241.9856	7.4789e-01	1.9198e+00
9	TAO080136	275.0433	276.2358	275.7410	2.4373e-01	1.9283e+00
10	TAO090136	279.1599	280.7199	279.9160	2.8875e-01	1.9295e+00
11	TAO100136	271.0659	274.1978	272.4145	8.1472e-01	1.9274e+00
12	TAO105136	276.6832	279.0786	277.7971	6.1900e-01	1.9289e+00
13	TAO110136	281.7510	283.9351	282.9055	4.9930e-01	1.9303e+00
14	TAO115136	279.7477	283.3313	281.1195	7.2954e-01	1.9298e+00
15	TAO120136	288.8332	290.3876	289.5061	3.2092e-01	1.9322e+00
16	TAO125136	222.8595	225.2308	224.1496	5.7136e-01	1.9159e+00
17	TAO130136	284.0767	286.4243	285.1987	5.9099e-01	1.9309e+00
18	TAO120048	98.3546	99.4996	98.9249	2.9686e-01	1.9006e+00
19	TAO130048	288.0018	289.5516	288.9278	3.6302e-01	1.9320e+00
20	TAO120224	288.9304	290.6654	289.8040	3.7137e-01	1.9323e+00
21	TAO130224	276.4841	278.7606	277.4722	5.6015e-01	1.9288e+00
22	TAO120312	286.7450	288.5768	287.7599	4.2236e-01	1.9317e+00
23	TAO130312	288.7397	290.1989	289.4769	3.0482e-01	1.9322e+00
24	TRT020000	254.5030	257.3990	256.0058	5.9923e-01	1.9232e+00
25	TRT070000	274.1892	275.3957	274.9690	3.2723e-01	1.9281e+00
26	TRT100000	286.2884	287.3848	286.8298	2.5009e-01	1.9314e+00
27	TRT120000	286.4625	287.8345	287.2350	2.9675e-01	1.9315e+00
28	TRT125000	272.4526	297.9344	290.8600	3.9365e+00	1.9326e+00
29	TRT130000	285.9035	287.7298	286.8893	4.0032e-01	1.9314e+00
30	EMPTY	39.3761	40.0646	39.8535	2.1669e-01	1.9011e+00
31	TAF050136	156.3491	161.3004	159.0679	1.1381e+00	1.9053e+00
32	TAF070136	175.0401	180.1131	177.9992	1.0764e+00	1.9078e+00
33	TAF080136	264.6363	266.9342	265.5997	5.1015e-01	1.9256e+00
34	TAF090136	85.7477	87.0089	86.4628	3.1492e-01	1.9002e+00
35	TAF100136	203.0782	207.6078	205.2114	1.1430e+00	1.9123e+00
36	TAF105136	208.3711	213.6903	210.5604	1.2956e+00	1.9133e+00
37	TAF110136	213.5777	219.5680	216.5206	1.4458e+00	1.9144e+00
38	TAF115136	219.4098	226.0516	222.2139	1.4162e+00	1.9155e+00
39	TAF120136	265.4399	270.5034	266.9956	1.0897e+00	1.9260e+00
40	TAF125136	231.4060	239.1748	234.9553	1.6909e+00	1.9182e+00
41	TAF130136	233.6672	240.9069	237.5929	1.5262e+00	1.9188e+00
42	TAF120048	226.0146	230.9729	228.3728	1.0125e+00	1.9168e+00
43	TAF130048	237.3284	242.8705	240.2954	1.0739e+00	1.9194e+00
44	TAF120224	219.3751	226.1184	222.6448	1.4390e+00	1.9156e+00
45	TAF130224	226.1740	230.6510	228.2024	1.0809e+00	1.9168e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1399	2.1230e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	40.0050	1.3760e-01	1.9011e+00
48	TAI130048	221.9188	227.3318	224.6366	1.4047e+00	1.9160e+00
49	TAI130136	223.8162	226.8461	225.0775	6.2313e-01	1.9161e+00
50	TAI130224	216.4527	219.3220	217.5934	5.5559e-01	1.9146e+00
51	TAI130312	214.0188	216.2203	215.2709	4.8402e-01	1.9142e+00
52	TRR130000	186.5636	188.5057	187.5431	4.0500e-01	1.9093e+00
53	TSI000001	69.0907	69.8373	69.5045	1.9217e-01	1.9000e+00
54	TSI000002	92.0555	93.2057	92.6245	2.8660e-01	1.9003e+00
55	TSO000001	68.4536	69.2033	68.8777	2.0293e-01	1.9000e+00
56	TSO000002	84.0223	84.8663	84.4739	1.9412e-01	1.9001e+00
57	TAF020136	113.2528	118.0103	115.8480	1.0599e+00	1.9014e+00
58	TAF120312	226.7842	232.5619	229.2457	1.3508e+00	1.9170e+00
59	TAF130312	256.3912	260.0123	258.2037	8.6153e-01	1.9237e+00
60	EMPTY	4.4092	4.4482	4.4288	9.0675e-03	0.0000e+00
61	EMPTY	4.3994	4.4189	4.4076	5.0724e-03	0.0000e+00
62	EMPTY	4.3799	4.3945	4.3868	4.0781e-03	0.0000e+00
63	EMPTY	4.3701	4.3848	4.3765	3.4527e-03	0.0000e+00
64	EMPTY	2.0752	2.0801	2.0759	1.7115e-03	0.0000e+00
65	EMPTY	2.0850	2.0898	2.0895	1.3381e-03	0.0000e+00
66	EMPTY	2.0898	2.0996	2.0954	1.9754e-03	0.0000e+00
67	EMPTY	2.1045	2.1094	2.1060	2.2603e-03	0.0000e+00
68	EMPTY	2.1094	2.1143	2.1103	1.8950e-03	0.0000e+00
69	EMPTY	2.1191	2.1240	2.1199	1.8082e-03	0.0000e+00
70	EMPTY	2.1240	2.1289	2.1269	2.4344e-03	0.0000e+00
71	EMPTY	2.1387	2.1436	2.1414	2.4484e-03	0.0000e+00
72	EMPTY	2.1436	2.1484	2.1462	2.4583e-03	0.0000e+00
73	EMPTY	2.1533	2.1631	2.1577	1.7784e-03	0.0000e+00
74	EMPTY	2.1631	2.1680	2.1641	1.9730e-03	0.0000e+00
75	EMPTY	2.1729	2.1875	2.1738	2.6100e-03	0.0000e+00
76	EMPTY	2.1777	2.1875	2.1812	2.4662e-03	0.0000e+00
77	EMPTY	2.1875	2.1973	2.1924	1.3951e-03	0.0000e+00
78	EMPTY	2.2021	2.2070	2.2062	1.8082e-03	0.0000e+00
79	EMPTY	2.2217	2.2217	2.2217	0.0000e+00	0.0000e+00
80	PAN020136	-15.7824	-7.6190	-13.7866	1.4661e+00	8.7068e-01
81	PAN050136	-26.4194	-23.5202	-24.8233	6.5700e-01	1.6811e+00
82	PAN070136	-16.4058	-13.2014	-14.5945	7.3725e-01	8.7076e-01
83	PAN080136	-14.0791	-13.8502	-13.9601	6.9207e-02	8.7070e-01
84	PAN090136	-13.2045	-7.1010	-11.2132	1.6700e+00	8.7045e-01
85	PAN100136	-12.2363	-12.0074	-12.1356	4.9803e-02	8.7053e-01
86	PAN105136	-7.7005	24.4955	9.1955	6.4780e+00	8.7030e-01
87	PAN110136	-7.3615	24.3768	2.1218	7.0059e+00	8.7002e-01
88	PAN115136	-7.5259	12.7683	0.9779	4.7215e+00	8.7000e-01
89	PAN120136	-6.1013	2.8251	-4.6379	2.4263e+00	8.7008e-01
90	PAN125136	-6.0353	10.5968	-4.2531	3.7100e+00	8.7006e-01
91	PAN130136	-2.4259	21.3778	7.2695	5.8203e+00	8.7019e-01
92	PAN120048	-12.1042	20.4733	-1.5039	8.6838e+00	8.7001e-01
93	PAN130048	-8.6680	3.6916	-1.8138	3.0562e+00	8.7001e-01
94	PAN120224	-12.3975	22.5451	0.9722	9.4620e+00	8.7000e-01
95	PAN130224	-6.8061	4.4854	-0.4569	2.6437e+00	8.7000e-01
96	PAN120312	-12.3918	7.9024	-3.2884	6.2000e+00	8.7004e-01
97	PAN130312	-8.2455	5.6400	-2.0993	2.8495e+00	8.7002e-01
98	PAB000136	40.3891	40.8468	40.4962	9.5041e-02	5.8877e-01
99	PAB100136	44.6745	45.9104	45.3419	2.5731e-01	5.9097e-01
100	PAB125136	45.1146	46.2133	45.5898	2.7897e-01	5.9109e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1358	40.6241	40.3092	1.0775e-01	7.5674e-01
102	PRV000001	19.4847	19.7289	19.5995	3.8286e-02	7.5160e-01
103	PSR000001	44.7556	44.9998	44.8948	5.5201e-02	7.5835e-01
104	PFM000001	2.3469	2.6215	2.4659	6.7328e-02	5.0004e-01
105	PAN000136	-144.2213	-130.4883	-137.2083	3.3682e+00	4.9319e+00
106	PFM000002	2.4005	2.4844	2.4532	1.7942e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	0.0000	4.1853e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-6.4587	6.0725e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0002	2.7832e-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	145.0458	145.6318	145.4092	1.6274e-01	1.1905e+00
113	VPW000002	168.8815	169.2721	169.0923	9.5357e-02	1.2982e+00
114	VPW000003	0.0526	0.2479	0.1229	9.4702e-02	8.1000e-01
115	VPW000004	148.7342	149.5155	149.1796	1.5303e-01	1.2072e+00
116	VPW000005	197.9455	198.7267	198.3048	1.4423e-01	1.4394e+00
117	VPW000006	0.1089	0.4995	0.2378	1.0885e-01	8.1000e-01
118	IPW000001	771.2133	777.0703	773.9855	1.8953e+00	1.0149e+01
119	IPW000002	1812.2039	1818.0577	1815.8717	1.7020e+00	1.6474e+01
120	IPW000003	-1.1625	4.6875	2.0745	1.8733e+00	8.1000e+00
121	IPW000004	531.9260	535.3440	533.7032	7.8150e-01	4.6666e+00
122	IPW000005	353.3958	354.8605	354.0988	3.8405e-01	3.4388e+00
123	IPW000006	-0.8545	0.6104	-0.1123	4.3270e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0187	4.2647e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.8659e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0141	3.7745e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0148	3.4116e-03	0.0000e+00
128	IHT000001	-1.5738	-0.0113	-0.7652	3.0054e-01	4.1000e+00
129	IHT000002	-1.4048	-0.0376	-0.6977	2.6438e-01	4.1000e+00
130	IHT000003	-1.4536	-0.0864	-0.7309	2.6248e-01	4.1000e+00
131	IHT000004	-1.1794	-0.0075	-0.6208	2.4005e-01	4.1000e+00
132	IHT000005	-1.1831	-0.2066	-0.6753	2.3675e-01	4.1000e+00
133	IHT000006	-1.6226	-0.4507	-0.9624	2.6141e-01	4.1000e+00
134	IHT000007	-1.2320	-0.0601	-0.6890	2.8259e-01	4.1000e+00
135	IHT000008	-1.3296	0.0376	-0.7320	2.8838e-01	4.1000e+00
136	IHT000009	-1.3935	-0.2216	-0.7568	2.7849e-01	4.1000e+00
137	IHT000010	-0.7287	0.8338	0.0721	3.6646e-01	4.1000e+00
138	IHT000011	-0.3042	1.2583	0.3950	3.9080e-01	4.1000e+00
139	IHT000012	-0.5559	1.0066	0.0691	3.7016e-01	4.1000e+00
140	IHT000013	129.8265	131.5843	130.6273	4.0864e-01	4.3031e+00
141	IHT000014	179.6875	181.4453	180.4766	4.1752e-01	4.4796e+00
142	IHT000015	134.5215	136.0840	135.3183	3.8428e-01	4.3175e+00
143	IHT000016	125.4507	127.0132	126.3687	3.4905e-01	4.2903e+00
144	IHT000017	148.6704	151.4048	150.3813	5.7394e-01	4.3671e+00
145	IHT000018	151.3897	153.9288	152.4522	5.5124e-01	4.3743e+00
146	IHT000019	146.1351	148.8694	147.1234	5.6139e-01	4.3560e+00
147	IHT000020	150.5296	153.8499	151.5726	6.0952e-01	4.3712e+00
148	IHT000021	-2.0245	1.6865	-0.7862	6.7267e-01	4.1000e+00
149	IHT000022	131.0584	133.7928	131.8475	5.9837e-01	4.3068e+00
150	IHT000023	147.8215	150.5559	148.6808	5.0378e-01	4.3613e+00
151	IHT000024	112.8043	115.5386	113.5972	5.3439e-01	4.2545e+00
152	IHT000025	147.2731	149.8122	148.1207	5.3030e-01	4.3594e+00
153	IHT000026	148.8544	151.3935	149.6318	5.3596e-01	4.3645e+00
154	IHT000027	127.7006	129.8490	128.5639	5.4260e-01	4.2968e+00
155	IHT000028	129.2443	132.5646	130.7404	6.8528e-01	4.3034e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	147.7689	150.6986	149.0698	6.2091e-01	4.3626e+00
157	IHT000030	150.5709	153.5006	152.0318	6.4143e-01	4.3728e+00
158	IHT000031	148.6816	151.6113	150.0098	6.4235e-01	4.3658e+00
159	IHT000032	150.4883	153.4180	151.8672	6.5246e-01	4.3722e+00
160	IHT000033	150.2930	153.4180	151.7578	6.8941e-01	4.3718e+00
161	IHT000034	132.3843	134.7281	133.5484	5.1139e-01	4.3120e+00
162	IHT000035	174.2863	176.4348	175.3566	4.7718e-01	4.4593e+00
163	IHT000036	130.8669	133.0153	131.8708	4.6523e-01	4.3069e+00

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Velocity 1 = 0.004500 (ft/sec)

Velocity 2 = 0.004800 (ft/sec)

Pressure Drop = 0.048600 (psi)

Tsat in = 0.361389 (deg F) Tsat out = 0.363586 (deg F)

Phi inner = 0.000500 (kBtu/hr-ft2) Phi outer = 0.468109 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0803	0.0931
1	TRF000002	0.1429	0.1652
2	TFM000001	0.2324	0.2652
3	TIN000001	0.2251	0.2585
4	TRV000001	0.5031	0.5740
5	TSR000001	5.9351	4.8990
6	TAO020136	0.7161	1.3208
7	TAO050136	0.1223	0.0506
8	TAO070136	0.9730	0.4037
9	TAO080136	0.6014	0.2186
10	TAO090136	0.2362	0.0844
11	TAO100136	0.0943	0.0346
12	TAO105136	0.2671	0.0961
13	TAO110136	0.0407	0.0144
14	TAO115136	0.4059	0.1446
15	TAO120136	0.1812	0.0625
16	TAO125136	0.4954	0.2205
17	TAO130136	0.1266	0.0444
18	TAO120048	0.2186	0.2205
19	TAO130048	0.2489	0.0862
20	TAO120224	0.0130	0.0045
21	TAO130224	0.0248	0.0089
22	TAO120312	0.3241	0.1128
23	TAO130312	0.3331	0.1152
24	TRT020000	0.1178	0.0460
25	TRT070000	0.3846	0.1401
26	TRT100000	0.1875	0.0654
27	TRT120000	0.1117	0.0389
28	TRT125000	1.1735	0.4051
29	TRT130000	0.0232	0.0081
30	EMPTY	0.0137	0.0344
31	TAF050136	0.4804	0.3029
32	TAF070136	0.7345	0.4144
33	TAF080136	0.1020	0.0384
34	TAF090136	0.8713	0.9977
35	TAF100136	0.3719	0.1816
36	TAF105136	0.1110	0.0527
37	TAF110136	0.4843	0.2242
38	TAF115136	1.1061	0.5003
39	TAF120136	0.3916	0.1469
40	TAF125136	0.6710	0.2864
41	TAF130136	0.0279	0.0117
42	TAF120048	0.9336	0.4105
43	TAF130048	0.4414	0.1840
44	TAF120224	0.3355	0.1509
45	TAF130224	0.2538	0.1113

#	Name	Abs Diff	%Diff
46	EMPTY	0.0229	0.0601
47	EMPTY	0.0230	0.0575
48	TAI130048	0.5869	0.2620
49	TAI130136	0.0431	0.0192
50	TAI130224	0.6027	0.2777
51	TAI130312	0.5760	0.2683
52	TRR130000	0.0713	0.0380
53	TSI000001	0.9714	1.4174
54	TSI000002	1.1123	1.2155
55	TSO000001	1.0276	1.5145
56	TSO000002	1.0175	1.2192
57	TAF020136	0.2456	0.2116
58	TAF120312	0.2443	0.1067
59	TAF130312	0.4806	0.1865
60	EMPTY	0.0158	0.3580
61	EMPTY	0.0160	0.3643
62	EMPTY	0.0169	0.3867
63	EMPTY	0.0173	0.3969
64	EMPTY	0.0055	0.2657
65	EMPTY	0.0063	0.3024
66	EMPTY	0.0053	0.2536
67	EMPTY	0.0059	0.2809
68	EMPTY	0.0055	0.2613
69	EMPTY	0.0056	0.2649
70	EMPTY	0.0062	0.2924
71	EMPTY	0.0064	0.2998
72	EMPTY	0.0060	0.2803
73	EMPTY	0.0047	0.2183
74	EMPTY	0.0048	0.2223
75	EMPTY	0.0054	0.2490
76	EMPTY	0.0053	0.2436
77	EMPTY	0.0052	0.2377
78	EMPTY	0.0045	0.2044
79	EMPTY	0.0050	0.2256
80	PAN020136	0.1251	0.9157
81	PAN050136	0.3632	1.4420
82	PAN070136	0.8957	5.7824
83	PAN080136	0.0061	0.0437
84	PAN090136	1.4221	11.2550
85	PAN100136	0.0077	0.0635
86	PAN105136	3.3539	57.4141
87	PAN110136	1.5884	297.7878
88	PAN115136	3.7583	135.1712
89	PAN120136	0.4104	9.7079
90	PAN125136	1.0727	33.7285
91	PAN130136	1.4221	24.3202
92	PAN120048	0.1449	10.6623
93	PAN130048	0.9964	121.8987
94	PAN120224	2.4292	166.7262
95	PAN130224	0.3845	45.6976
96	PAN120312	2.4506	292.5042
97	PAN130312	0.3829	15.4258
98	PAB000136	0.2445	0.6074
99	PAB100136	0.4303	0.9581
100	PAB125136	0.2719	0.6000

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2930	0.7322
102	PRV000001	0.0903	0.4586
103	PSR000001	0.2515	0.5634
104	PFM000001	0.0055	0.2235
105	PAN000136	1.3458	0.9713
106	PFM000002	0.0060	0.2440
107	EMPTY	0.0004	100.0000
108	EMPTY	0.7573	13.2827
109	EMPTY	0.0001	33.3333
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	200.0000
112	VPW000001	0.1485	0.1022
113	VPW000002	0.0664	0.0393
114	VPW000003	0.0195	13.6938
115	VPW000004	0.0469	0.0314
116	VPW000005	0.0899	0.0453
117	VPW000006	0.0547	29.8744
118	IPW000001	8.5125	1.0879
119	IPW000002	3.1995	0.1765
120	IPW000003	8.8920	130.4290
121	IPW000004	4.0137	0.7464
122	IPW000005	0.4492	0.1267
123	IPW000006	0.2442	185.1403
124	EMPTY	0.0008	4.1026
125	EMPTY	0.0004	3.1496
126	EMPTY	0.0007	4.7297
127	EMPTY	0.0003	2.0690
128	IHT000001	0.0586	7.1134
129	IHT000002	0.0625	8.2215
130	IHT000003	0.0860	10.5276
131	IHT000004	0.1133	15.4339
132	IHT000005	0.0781	10.3663
133	IHT000006	0.0547	5.3780
134	IHT000007	0.0195	2.7523
135	IHT000008	0.0156	2.0867
136	IHT000009	0.0157	2.1185
137	IHT000010	0.0937	433.7963
138	IHT000011	0.1016	34.6285
139	IHT000012	0.0508	277.5956
140	IHT000013	0.0547	0.0419
141	IHT000014	0.0196	0.0109
142	IHT000015	0.0546	0.0404
143	IHT000016	0.0782	0.0619
144	IHT000017	0.1368	0.0909
145	IHT000018	0.1093	0.0716
146	IHT000019	0.1602	0.1088
147	IHT000020	0.2188	0.1441
148	IHT000021	0.2305	41.4792
149	IHT000022	0.0664	0.0503
150	IHT000023	0.3164	0.2123
151	IHT000024	0.2304	0.2024
152	IHT000025	0.2461	0.1659
153	IHT000026	0.1953	0.1303
154	IHT000027	0.0078	0.0061
155	IHT000028	0.1797	0.1376

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0312	0.0209
157	IHT000030	0.0234	0.0154
158	IHT000031	0.0157	0.0105
159	IHT000032	0.0352	0.0232
160	IHT000033	0.0391	0.0258
161	IHT000034	0.1329	0.0996
162	IHT000035	0.1524	0.0870
163	IHT000036	0.1602	0.1216

Velocity 1 = 3.7203 (ft/sec) (+/- 12.3402 %)
 Velocity 2 = 3.7289 (ft/sec) (+/- 4.6888 %)
 Pressure drop = -4.1210 (psi)
 Tsat in = 267.6396 (deg F) Tsat out = 273.2858 (deg F)
 Phi inner = -0.0009 (kBtu/hr-ft2) (+/- 612.3247 %)
 Phi outer = 199.8648 (kBtu/hr-ft2) (+/- 1.3400 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.5864	86.2206	85.9416	1.3799e-01	1.9002e+00
1	TRF000002	86.0041	86.4245	86.1807	1.2994e-01	1.9002e+00
2	TFM000001	87.1893	87.8194	87.5038	1.7611e-01	1.9002e+00
3	TIN000001	86.6378	87.2699	86.9453	1.6586e-01	1.9002e+00
4	TRV000001	87.4663	88.1996	87.8522	1.7370e-01	1.9002e+00
5	TSR000001	128.1284	130.1529	129.2101	5.3291e-01	1.9024e+00
6	TAO020136	55.2969	57.5641	56.5152	4.3896e-01	1.9001e+00
7	TAO050136	248.1569	251.5962	250.2621	7.3542e-01	1.9218e+00
8	TAO070136	249.8395	255.2804	252.4116	1.3842e+00	1.9223e+00
9	TAO080136	284.9040	288.1795	286.8193	6.9359e-01	1.9314e+00
10	TAO090136	291.4984	295.4113	294.0215	8.0806e-01	1.9335e+00
11	TAO100136	282.9158	287.6707	286.2120	1.2538e+00	1.9312e+00
12	TAO105136	287.6214	291.6491	289.9324	8.3972e-01	1.9323e+00
13	TAO110136	289.1009	292.2708	290.7848	6.0182e-01	1.9326e+00
14	TAO115136	286.3561	290.5656	288.4249	9.4641e-01	1.9319e+00
15	TAO120136	293.4890	295.6771	294.8164	5.1366e-01	1.9337e+00
16	TAO125136	227.9762	232.3212	230.9735	1.0047e+00	1.9174e+00
17	TAO130136	291.9217	296.7739	295.1194	8.9564e-01	1.9338e+00
18	TAO120048	97.3132	98.4586	97.9548	2.9919e-01	1.9005e+00
19	TAO130048	295.9088	299.7142	298.3801	1.0250e+00	1.9348e+00
20	TAO120224	293.7654	297.8623	296.6607	9.4815e-01	1.9343e+00
21	TAO130224	283.7603	287.3910	286.0985	6.7840e-01	1.9312e+00
22	TAO120312	291.2290	294.3351	293.5312	7.5984e-01	1.9334e+00
23	TAO130312	291.7456	294.3836	293.1503	6.1289e-01	1.9333e+00
24	TRT020000	264.2932	267.6362	266.0024	7.2862e-01	1.9257e+00
25	TRT070000	277.3428	280.1191	279.0391	5.1655e-01	1.9292e+00
26	TRT100000	292.5748	293.8493	293.4155	2.8087e-01	1.9333e+00
27	TRT120000	286.6453	290.4814	289.0605	9.7290e-01	1.9321e+00
28	TRT125000	173.5979	323.1685	261.9796	3.7451e+01	1.9247e+00
29	TRT130000	286.7244	291.8274	290.5714	1.0104e+00	1.9325e+00
30	EMPTY	39.3761	40.0646	39.8581	1.9808e-01	1.9011e+00
31	TAF050136	157.9337	165.0478	160.7242	1.4967e+00	1.9055e+00
32	TAF070136	179.3298	185.7439	182.0623	1.5855e+00	1.9084e+00
33	TAF080136	268.9511	270.6941	270.0435	4.7570e-01	1.9268e+00
34	TAF090136	84.8019	85.8540	85.4118	2.6959e-01	1.9002e+00
35	TAF100136	211.0687	218.1562	214.2592	1.7016e+00	1.9140e+00
36	TAF105136	211.4102	221.1676	215.2349	2.1635e+00	1.9142e+00
37	TAF110136	215.8613	223.5501	219.6461	1.9706e+00	1.9150e+00
38	TAF115136	221.3096	229.5487	223.5025	1.7846e+00	1.9158e+00
39	TAF120136	269.1225	272.3394	270.9751	6.3528e-01	1.9270e+00
40	TAF125136	237.4919	245.1329	241.5014	1.9629e+00	1.9197e+00
41	TAF130136	241.6561	257.7938	251.2490	3.5523e+00	1.9220e+00
42	TAF120048	234.9662	243.1122	239.9487	1.8251e+00	1.9194e+00
43	TAF130048	252.7795	273.9911	270.2434	6.8509e+00	1.9268e+00
44	TAF120224	229.8079	236.9771	233.4526	1.4902e+00	1.9179e+00
45	TAF130224	237.9583	244.6678	241.3631	1.5218e+00	1.9197e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1170	1.9288e-01	1.9010e+00
47	EMPTY	39.3761	40.5234	40.0325	2.6634e-01	1.9011e+00
48	TAI130048	247.0282	261.8547	257.5071	3.9361e+00	1.9235e+00
49	TAI130136	237.7746	244.0543	241.6307	1.5069e+00	1.9197e+00
50	TAI130224	229.8897	234.9109	233.0855	1.2269e+00	1.9178e+00
51	TAI130312	225.1808	227.7460	226.2644	4.9419e-01	1.9164e+00
52	TRR130000	204.0388	206.5338	205.0831	6.3002e-01	1.9123e+00
53	TSI000001	70.0471	70.6860	70.3578	1.6206e-01	1.9000e+00
54	TSI000002	94.3506	95.6003	94.8836	3.1049e-01	1.9004e+00
55	TSO000001	69.0974	70.1674	69.6111	1.9217e-01	1.9000e+00
56	TSO000002	86.0223	86.7593	86.4643	1.7005e-01	1.9002e+00
57	TAF020136	113.0460	119.7642	116.2950	1.4908e+00	1.9014e+00
58	TAF120312	233.6954	241.6119	237.8309	1.7294e+00	1.9189e+00
59	TAF130312	254.6224	261.7724	258.1543	1.3950e+00	1.9237e+00
60	EMPTY	4.3945	4.4775	4.4337	2.0961e-02	0.0000e+00
61	EMPTY	4.3848	4.4482	4.4146	1.7048e-02	0.0000e+00
62	EMPTY	4.3701	4.4189	4.3951	1.4653e-02	0.0000e+00
63	EMPTY	4.3604	4.4043	4.3855	1.2913e-02	0.0000e+00
64	EMPTY	2.0654	2.0850	2.0778	5.4220e-03	0.0000e+00
65	EMPTY	2.0801	2.0996	2.0904	5.1863e-03	0.0000e+00
66	EMPTY	2.0898	2.1045	2.0976	5.1344e-03	0.0000e+00
67	EMPTY	2.0996	2.1143	2.1071	4.8538e-03	0.0000e+00
68	EMPTY	2.0996	2.1191	2.1120	4.5432e-03	0.0000e+00
69	EMPTY	2.1143	2.1289	2.1213	4.3180e-03	0.0000e+00
70	EMPTY	2.1240	2.1338	2.1282	3.6924e-03	0.0000e+00
71	EMPTY	2.1387	2.1484	2.1423	3.6659e-03	0.0000e+00
72	EMPTY	2.1436	2.1533	2.1477	3.3249e-03	0.0000e+00
73	EMPTY	2.1533	2.1680	2.1593	3.5962e-03	0.0000e+00
74	EMPTY	2.1631	2.1729	2.1666	3.4229e-03	0.0000e+00
75	EMPTY	2.1680	2.1875	2.1762	3.9998e-03	0.0000e+00
76	EMPTY	2.1777	2.1924	2.1835	3.3728e-03	0.0000e+00
77	EMPTY	2.1924	2.2021	2.1947	3.4513e-03	0.0000e+00
78	EMPTY	2.2021	2.2168	2.2095	3.7239e-03	0.0000e+00
79	EMPTY	2.2217	2.2314	2.2246	3.8206e-03	0.0000e+00
80	PAN020136	-19.9023	-4.8724	-17.1527	3.9809e+00	8.7106e-01
81	PAN050136	-38.7790	-14.5175	-28.5098	5.4966e+00	1.6815e+00
82	PAN070136	-25.8662	-2.1388	-14.2131	6.4125e+00	8.7073e-01
83	PAN080136	-14.0791	-2.4824	-10.1164	3.5643e+00	8.7037e-01
84	PAN090136	-13.2045	5.5638	-9.2509	4.1604e+00	8.7031e-01
85	PAN100136	-12.1600	52.2321	-5.6338	1.0741e+01	8.7011e-01
86	PAN105136	-5.7932	23.1985	-1.2934	6.0071e+00	8.7001e-01
87	PAN110136	-7.2852	-0.3425	-4.8072	1.6260e+00	8.7008e-01
88	PAN115136	-7.1444	-0.5831	-3.6013	1.1197e+00	8.7005e-01
89	PAN120136	-6.1013	3.9695	-4.0032	1.5923e+00	8.7006e-01
90	PAN125136	-6.0353	-2.7546	-4.9153	1.0219e+00	8.7009e-01
91	PAN130136	-3.1126	5.1272	-1.1945	2.4076e+00	8.7001e-01
92	PAN120048	-12.1042	-7.5266	-10.2869	9.7237e-01	8.7038e-01
93	PAN130048	-7.1421	1.2502	-4.9922	2.3184e+00	8.7009e-01
94	PAN120224	-8.5065	-4.0052	-6.8327	1.1926e+00	8.7017e-01
95	PAN130224	-8.3320	-1.3892	-6.7420	1.6192e+00	8.7016e-01
96	PAN120312	-11.4763	-5.3728	-9.0623	1.3496e+00	8.7029e-01
97	PAN130312	-7.4063	1.6727	-4.8413	2.5804e+00	8.7008e-01
98	PAB000136	39.7024	40.6637	40.1822	3.1160e-01	5.8864e-01
99	PAB100136	43.2096	44.9949	43.5255	3.2714e-01	5.9012e-01
100	PAB125136	43.9702	44.6569	44.1460	1.4633e-01	5.9041e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.1593	40.5021	39.9161	4.0673e-01	7.5661e-01
102	PRV000001	19.6068	19.8509	19.6630	6.6221e-02	7.5161e-01
103	PSR000001	44.0232	44.1453	44.1038	5.8413e-02	7.5806e-01
104	PFM000001	1.9807	2.1638	2.0447	5.3127e-02	5.0003e-01
105	PAN000136	-127.2840	-99.8182	-114.0912	8.5533e+00	4.9283e+00
106	PFM000002	2.0313	2.1152	2.0545	2.0024e-02	2.0007e-01
107	EMPTY	-0.0049	0.0049	-0.0009	4.2647e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-1.1631	7.7382e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0011	3.4583e-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	144.8505	145.6318	145.3349	1.6852e-01	1.1902e+00
113	VPW000002	169.0768	169.2721	169.2056	9.3461e-02	1.2988e+00
114	VPW000003	0.0526	0.4432	0.1346	1.0507e-01	8.1000e-01
115	VPW000004	148.7342	149.3201	149.1015	1.5098e-01	1.2068e+00
116	VPW000005	198.1408	198.7267	198.3712	1.2283e-01	1.4397e+00
117	VPW000006	0.1089	0.3042	0.1792	9.4702e-02	8.1000e-01
118	IPW000001	782.9273	794.6414	788.5890	2.9844e+00	1.0219e+01
119	IPW000002	1792.6912	1798.5450	1795.5396	1.1964e+00	1.6335e+01
120	IPW000003	-18.7125	-12.8625	-15.8265	1.1975e+00	8.1010e+00
121	IPW000004	535.8323	538.7620	537.3067	7.6087e-01	4.6923e+00
122	IPW000005	352.9075	354.3722	353.6789	3.8316e-01	3.4361e+00
123	IPW000006	-0.8545	0.6104	-0.1904	3.0819e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0193	3.6858e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0136	2.8403e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0143	3.0945e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0049	-0.0144	3.8725e-03	0.0000e+00
128	IHT000001	-1.3784	-0.2066	-0.8081	2.6127e-01	4.1000e+00
129	IHT000002	-1.2094	-0.2329	-0.7524	2.5146e-01	4.1000e+00
130	IHT000003	-1.4536	-0.2817	-0.8559	2.5084e-01	4.1000e+00
131	IHT000004	-1.1794	-0.2028	-0.7731	2.5524e-01	4.1000e+00
132	IHT000005	-1.1831	-0.2066	-0.7964	2.6614e-01	4.1000e+00
133	IHT000006	-1.6226	-0.2554	-1.0289	2.4311e-01	4.1000e+00
134	IHT000007	-1.2320	-0.0601	-0.7241	2.8179e-01	4.1000e+00
135	IHT000008	-1.1343	-0.3531	-0.7554	2.6590e-01	4.1000e+00
136	IHT000009	-1.1982	-0.2216	-0.7724	2.7815e-01	4.1000e+00
137	IHT000010	-0.7287	1.0291	-0.0451	3.5786e-01	4.1000e+00
138	IHT000011	-0.4995	1.4536	0.2739	3.8249e-01	4.1000e+00
139	IHT000012	-0.5559	1.2019	-0.0051	3.7370e-01	4.1000e+00
140	IHT000013	129.6311	131.7796	130.4164	4.3133e-01	4.3024e+00
141	IHT000014	179.6875	181.6406	180.3750	4.0480e-01	4.4792e+00
142	IHT000015	134.5215	136.6699	135.1621	3.7442e-01	4.3170e+00
143	IHT000016	125.6460	127.5992	126.3101	4.1007e-01	4.2902e+00
144	IHT000017	149.0610	151.7954	150.3149	6.0372e-01	4.3669e+00
145	IHT000018	151.7803	153.7335	152.5225	4.5677e-01	4.3745e+00
146	IHT000019	146.1351	148.4788	147.2679	5.4534e-01	4.3565e+00
147	IHT000020	150.7249	153.2640	151.7992	5.5838e-01	4.3720e+00
148	IHT000021	-2.2198	1.1005	-0.5518	7.1595e-01	4.1000e+00
149	IHT000022	130.6678	133.2069	131.8944	5.7187e-01	4.3069e+00
150	IHT000023	147.8215	150.5559	148.9738	6.1162e-01	4.3623e+00
151	IHT000024	112.6089	114.9527	113.8198	5.2645e-01	4.2551e+00
152	IHT000025	147.4685	149.6169	148.3473	5.1031e-01	4.3601e+00
153	IHT000026	148.6591	150.8075	149.7998	4.8706e-01	4.3651e+00
154	IHT000027	127.5053	129.6537	128.6186	5.1788e-01	4.2970e+00
155	IHT000028	129.2443	132.3693	130.4474	6.6890e-01	4.3025e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	147.3783	151.0892	148.9331	6.7654e-01	4.3621e+00
157	IHT000030	150.3756	153.8912	151.9263	6.5722e-01	4.3724e+00
158	IHT000031	148.6816	151.6113	149.9512	6.3165e-01	4.3656e+00
159	IHT000032	150.4883	153.4180	151.7969	6.4868e-01	4.3720e+00
160	IHT000033	150.2930	153.4180	151.7031	6.7114e-01	4.3717e+00
161	IHT000034	132.3843	134.5327	133.3413	5.0878e-01	4.3114e+00
162	IHT000035	174.2863	176.2395	175.2863	4.9227e-01	4.4590e+00
163	IHT000036	130.4763	132.6247	131.7106	4.7750e-01	4.3064e+00

Velocity 1 = 3.7122 (ft/sec) (+/- 12.3947 %)
Velocity 2 = 3.7168 (ft/sec) (+/- 4.7164 %)
Pressure drop = -4.1256 (psi)
Tsat in = 267.3522 (deg F) Tsat out = 273.0284 (deg F)
Phi inner = 0.0004 (kBtu/hr-ft2) (+/- 656.0533 %)
Phi outer = 200.5362 (kBtu/hr-ft2) (+/- 1.3398 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	85.3750	86.2206	85.8951	1.8720e-01	1.9002e+00
1	TRF0000002	86.0041	86.6347	86.1387	1.3932e-01	1.9002e+00
2	TFM0000001	87.3977	88.1331	87.8077	1.7774e-01	1.9002e+00
3	TIN0000001	87.0585	87.5851	87.2967	1.4238e-01	1.9002e+00
4	TRV0000001	87.6740	88.6176	88.1509	1.9754e-01	1.9002e+00
5	TSR0000001	128.1278	129.7471	129.1997	4.0280e-01	1.9024e+00
6	TAO020136	57.5639	59.1803	58.4630	3.6407e-01	1.9001e+00
7	TAO050136	248.7171	252.1531	250.3527	8.5207e-01	1.9218e+00
8	TAO070136	249.9340	254.3433	252.5376	1.1152e+00	1.9223e+00
9	TAO080136	285.1766	287.5437	286.6717	4.6388e-01	1.9314e+00
10	TAO090136	292.7727	295.0477	293.7976	4.7825e-01	1.9334e+00
11	TAO100136	284.0134	288.2186	286.4807	9.1010e-01	1.9313e+00
12	TAO105136	288.6283	291.6489	290.3113	5.9480e-01	1.9324e+00
13	TAO110136	289.1896	291.6370	290.7246	5.5917e-01	1.9325e+00
14	TAO115136	286.3552	289.5592	288.2987	7.0544e-01	1.9318e+00
15	TAO120136	293.7620	295.2212	294.7162	3.4416e-01	1.9337e+00
16	TAO125136	227.1234	229.3945	228.4049	5.3431e-01	1.9168e+00
17	TAO130136	293.7134	296.0529	294.7183	4.8397e-01	1.9337e+00
18	TAO120048	98.8733	100.2263	99.5000	3.4944e-01	1.9006e+00
19	TAO130048	297.7204	299.4419	298.5703	4.0721e-01	1.9349e+00
20	TAO120224	294.9489	297.5888	296.8081	5.7439e-01	1.9343e+00
21	TAO130224	285.3047	287.1205	286.1144	4.3173e-01	1.9312e+00
22	TAO120312	292.5998	295.5210	294.5334	5.8658e-01	1.9337e+00
23	TAO130312	291.6539	294.0210	292.9737	5.1100e-01	1.9332e+00
24	TRT020000	264.5717	267.5437	265.9709	5.6741e-01	1.9257e+00
25	TRT070000	277.9913	280.1203	279.2262	4.5151e-01	1.9293e+00
26	TRT100000	292.8474	293.8493	293.2935	2.3287e-01	1.9333e+00
27	TRT120000	286.9201	290.1158	289.0368	7.5700e-01	1.9321e+00
28	TRT125000	197.0456	456.5042	319.1954	7.2761e+01	1.9414e+00
29	TRT130000	289.0948	291.2822	290.1651	4.1779e-01	1.9324e+00
30	EMPTY	39.3761	40.2940	39.8398	2.0988e-01	1.9011e+00
31	TAF050136	158.1319	164.3574	161.1570	1.3989e+00	1.9056e+00
32	TAF070136	178.9386	184.7740	182.0679	1.4978e+00	1.9084e+00
33	TAF080136	268.5822	270.6012	270.0009	3.5840e-01	1.9268e+00
34	TAF090136	86.1675	87.3235	86.6487	2.8157e-01	1.9002e+00
35	TAF100136	210.3960	217.0095	214.2038	1.5264e+00	1.9140e+00
36	TAF105136	210.1733	216.7213	213.7353	1.4424e+00	1.9139e+00
37	TAF110136	216.0521	220.3283	218.2244	1.0982e+00	1.9147e+00
38	TAF115136	220.1705	223.9670	222.1011	1.0197e+00	1.9155e+00
39	TAF120136	269.9495	271.7870	270.9951	4.5586e-01	1.9270e+00
40	TAF125136	238.3287	244.7605	241.2872	1.4350e+00	1.9197e+00
41	TAF130136	248.2968	261.6883	253.1522	2.8044e+00	1.9225e+00
42	TAF120048	236.3907	244.8118	240.8935	1.6399e+00	1.9196e+00
43	TAF130048	267.0725	273.8070	272.8797	1.2459e+00	1.9275e+00
44	TAF120224	230.8481	235.9417	233.3527	1.2035e+00	1.9179e+00
45	TAF130224	239.9464	244.5730	242.1135	1.2481e+00	1.9199e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0894	1.8580e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9775	1.6644e-01	1.9011e+00
48	TAI130048	257.8575	261.2976	259.9908	8.7811e-01	1.9242e+00
49	TAI130136	241.9012	244.9895	243.1311	6.9269e-01	1.9201e+00
50	TAI130224	232.6392	235.0052	233.8792	5.4293e-01	1.9180e+00
51	TAI130312	225.5608	227.1762	226.3460	3.9936e-01	1.9164e+00
52	TRR130000	205.0939	207.2036	205.8136	4.6907e-01	1.9124e+00
53	TSI000001	70.2579	71.2171	70.6867	1.7807e-01	1.9000e+00
54	TSI000002	94.5579	95.7042	95.1188	2.8166e-01	1.9004e+00
55	TSO000001	69.4188	70.2750	69.9090	2.1630e-01	1.9000e+00
56	TSO000002	86.3373	87.2848	86.7354	2.1389e-01	1.9002e+00
57	TAF020136	113.5647	119.7646	116.7645	1.3606e+00	1.9015e+00
58	TAF120312	234.5454	241.9875	238.8800	1.8087e+00	1.9191e+00
59	TAF130312	255.4596	261.1243	258.1933	1.2040e+00	1.9237e+00
60	EMPTY	4.4043	4.4727	4.4356	1.4833e-02	0.0000e+00
61	EMPTY	4.3994	4.4385	4.4149	1.0379e-02	0.0000e+00
62	EMPTY	4.3848	4.4141	4.3951	7.7449e-03	0.0000e+00
63	EMPTY	4.3750	4.3994	4.3842	6.8088e-03	0.0000e+00
64	EMPTY	2.0703	2.0801	2.0762	2.2058e-03	0.0000e+00
65	EMPTY	2.0850	2.0947	2.0890	3.2253e-03	0.0000e+00
66	EMPTY	2.0898	2.1045	2.0951	2.5800e-03	0.0000e+00
67	EMPTY	2.0996	2.1094	2.1048	2.4976e-03	0.0000e+00
68	EMPTY	2.1045	2.1191	2.1097	2.8608e-03	0.0000e+00
69	EMPTY	2.1143	2.1240	2.1190	2.6998e-03	0.0000e+00
70	EMPTY	2.1240	2.1289	2.1256	2.3008e-03	0.0000e+00
71	EMPTY	2.1338	2.1436	2.1398	2.3261e-03	0.0000e+00
72	EMPTY	2.1436	2.1484	2.1453	2.3675e-03	0.0000e+00
73	EMPTY	2.1533	2.1631	2.1570	2.3261e-03	0.0000e+00
74	EMPTY	2.1631	2.1680	2.1638	1.7115e-03	0.0000e+00
75	EMPTY	2.1729	2.1777	2.1736	1.8082e-03	0.0000e+00
76	EMPTY	2.1777	2.1826	2.1800	2.4583e-03	0.0000e+00
77	EMPTY	2.1875	2.1924	2.1917	1.7115e-03	0.0000e+00
78	EMPTY	2.1973	2.2070	2.2053	2.5648e-03	0.0000e+00
79	EMPTY	2.2168	2.2266	2.2216	1.2041e-03	0.0000e+00
80	PAN020136	-19.9786	-6.9323	-17.1817	4.3025e+00	8.7106e-01
81	PAN050136	-38.7790	-16.5012	-29.3430	5.1477e+00	1.6816e+00
82	PAN070136	-25.9425	-4.7328	-15.0065	5.4314e+00	8.7081e-01
83	PAN080136	-14.0791	-4.3897	-9.4679	3.3584e+00	8.7032e-01
84	PAN090136	-13.2045	0.1469	-10.4427	2.7947e+00	8.7039e-01
85	PAN100136	-12.1600	25.6818	-5.5407	5.9878e+00	8.7011e-01
86	PAN105136	-7.6243	-0.4526	-4.7724	1.4637e+00	8.7008e-01
87	PAN110136	-7.3615	0.7256	-5.2009	1.5044e+00	8.7010e-01
88	PAN115136	-4.8556	0.1798	-3.1527	1.0414e+00	8.7004e-01
89	PAN120136	-6.0250	-2.0577	-4.3373	7.3335e-01	8.7007e-01
90	PAN125136	-6.1116	-2.0680	-4.7276	8.5862e-01	8.7008e-01
91	PAN130136	-3.4178	6.1190	-2.2550	2.0737e+00	8.7002e-01
92	PAN120048	-12.0279	-8.7473	-10.3571	5.3489e-01	8.7039e-01
93	PAN130048	-7.0658	1.0213	-5.8818	1.4619e+00	8.7012e-01
94	PAN120224	-9.9561	-6.3703	-7.8428	6.3276e-01	8.7022e-01
95	PAN130224	-8.1031	-3.5255	-7.4500	8.7847e-01	8.7020e-01
96	PAN120312	-9.9504	-6.4409	-9.1920	7.0456e-01	8.7030e-01
97	PAN130312	-6.7959	-2.4472	-6.1001	9.3968e-01	8.7013e-01
98	PAB000136	39.5193	40.3891	39.9890	2.9125e-01	5.8855e-01
99	PAB100136	43.0723	43.4843	43.2133	8.1594e-02	5.8998e-01
100	PAB125136	43.8329	44.2449	43.9583	7.5025e-02	5.9032e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.0372	40.3800	39.7526	3.8286e-01	7.5656e-01
102	PRV0000001	19.6068	19.7289	19.6117	2.4164e-02	7.5160e-01
103	PSR0000001	43.9011	44.0232	43.9548	6.1209e-02	7.5801e-01
104	PFM0000001	1.8891	2.1638	2.0356	6.9207e-02	5.0003e-01
105	PAN000136	-126.8262	-100.7337	-114.2194	8.6525e+00	4.9283e+00
106	PFM0000002	2.0146	2.0649	2.0407	1.5958e-02	2.0007e-01
107	EMPTY	-0.0049	0.0049	0.0025	3.5895e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-2.6867	7.1537e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0004	3.2479e-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	144.8505	145.4365	145.2373	1.5020e-01	1.1897e+00
113	VPW0000002	168.8815	169.4674	169.1080	9.9512e-02	1.2983e+00
114	VPW0000003	0.0526	0.2479	0.1151	9.2034e-02	8.1000e-01
115	VPW0000004	148.9295	149.5155	149.1483	1.3462e-01	1.2070e+00
116	VPW0000005	198.1408	198.5314	198.2618	1.0358e-01	1.4392e+00
117	VPW0000006	0.1089	0.3042	0.2066	9.8648e-02	8.1000e-01
118	IPW0000001	769.2609	777.0703	772.8531	1.7355e+00	1.0143e+01
119	IPW0000002	1818.0577	1823.9115	1820.1257	1.3316e+00	1.6503e+01
120	IPW0000003	2.7375	8.5875	5.7795	1.2557e+00	8.1001e+00
121	IPW0000004	536.3206	537.7854	537.0723	3.8473e-01	4.6906e+00
122	IPW0000005	354.8605	355.8369	355.3878	3.3941e-01	3.4471e+00
123	IPW0000006	0.1221	1.5869	0.9424	3.4793e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0174	3.8409e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0125	2.6396e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0143	3.0945e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0141	3.2178e-03	0.0000e+00
128	IHT0000001	-1.3784	-0.2066	-0.7808	2.5697e-01	4.1000e+00
129	IHT0000002	-1.4048	-0.2329	-0.6860	2.6007e-01	4.1000e+00
130	IHT0000003	-1.2583	-0.0864	-0.7426	2.6983e-01	4.1000e+00
131	IHT0000004	-1.1794	-0.0075	-0.6755	2.6201e-01	4.1000e+00
132	IHT0000005	-1.1831	-0.2066	-0.7300	2.3820e-01	4.1000e+00
133	IHT0000006	-1.4273	-0.2554	-0.9039	2.8846e-01	4.1000e+00
134	IHT0000007	-1.2320	-0.0601	-0.5952	2.9478e-01	4.1000e+00
135	IHT0000008	-1.1343	-0.1578	-0.6148	2.7227e-01	4.1000e+00
136	IHT0000009	-1.1982	0.1690	-0.6357	2.8900e-01	4.1000e+00
137	IHT0000010	-0.5334	0.8338	0.0174	3.3410e-01	4.1000e+00
138	IHT0000011	-0.3042	1.0630	0.3286	3.4974e-01	4.1000e+00
139	IHT0000012	-0.5559	1.0066	0.0144	3.5036e-01	4.1000e+00
140	IHT0000013	129.8265	131.5843	130.4554	4.0681e-01	4.3025e+00
141	IHT0000014	179.4922	181.2500	180.2031	4.1901e-01	4.4785e+00
142	IHT0000015	134.5215	136.2793	135.2129	4.2170e-01	4.3172e+00
143	IHT0000016	125.6460	127.2085	126.2202	4.4012e-01	4.2899e+00
144	IHT0000017	149.0610	151.4048	150.1040	5.3468e-01	4.3661e+00
145	IHT0000018	151.3897	153.9288	152.4014	5.6592e-01	4.3741e+00
146	IHT0000019	145.5491	147.8929	146.8461	5.6049e-01	4.3550e+00
147	IHT0000020	150.3343	152.8733	151.4789	5.5665e-01	4.3709e+00
148	IHT0000021	-2.2198	0.7099	-0.8096	6.0912e-01	4.1000e+00
149	IHT0000022	130.2772	132.4256	131.5546	5.0101e-01	4.3059e+00
150	IHT0000023	147.4309	149.7746	148.6691	5.3030e-01	4.3612e+00
151	IHT0000024	112.2183	114.7574	113.5230	5.2710e-01	4.2543e+00
152	IHT0000025	146.6872	149.2263	148.0973	5.6948e-01	4.3593e+00
153	IHT0000026	148.0732	151.0028	149.5615	5.9306e-01	4.3643e+00
154	IHT0000027	127.1146	129.6537	128.3881	5.8957e-01	4.2963e+00
155	IHT0000028	129.0490	131.9787	130.3575	6.5346e-01	4.3022e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	147.5736	150.1127	148.8120	6.1334e-01	4.3617e+00
157	IHT000030	150.7662	153.3053	151.8443	6.0392e-01	4.3721e+00
158	IHT000031	148.6816	151.2207	149.8613	5.7853e-01	4.3653e+00
159	IHT000032	150.4883	153.2227	151.6836	5.9141e-01	4.3716e+00
160	IHT000033	150.4883	153.2226	151.6015	5.8294e-01	4.3713e+00
161	IHT000034	132.5796	134.7281	133.3921	4.4180e-01	4.3115e+00
162	IHT000035	174.2863	176.2395	175.1339	4.6790e-01	4.4584e+00
163	IHT000036	130.8669	132.8200	131.7028	4.5684e-01	4.3063e+00

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Velocity 1 = 0.008100 (ft/sec)

Velocity 2 = 0.012100 (ft/sec)

Pressure Drop = 0.004600 (psi)

Tsat in = 0.287384 (deg F) Tsat out = 0.257385 (deg F)

Phi inner = 0.001300 (kBtu/hr-ft2) Phi outer = 0.671387 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0465	0.0541
1	TRF000002	0.0420	0.0487
2	TFM000001	0.3039	0.3473
3	TIN000001	0.3514	0.4042
4	TRV000001	0.2987	0.3400
5	TSR000001	0.0104	0.0080
6	TAO020136	1.9478	3.4465
7	TAO050136	0.0906	0.0362
8	TAO070136	0.1260	0.0499
9	TAO080136	0.1476	0.0515
10	TAO090136	0.2239	0.0762
11	TAO100136	0.2687	0.0939
12	TAO105136	0.3789	0.1307
13	TAO110136	0.0602	0.0207
14	TAO115136	0.1262	0.0438
15	TAO120136	0.1002	0.0340
16	TAO125136	2.5686	1.1121
17	TAO130136	0.4011	0.1359
18	TAO120048	1.5452	1.5775
19	TAO130048	0.1902	0.0637
20	TAO120224	0.1474	0.0497
21	TAO130224	0.0159	0.0056
22	TAO120312	1.0022	0.3414
23	TAO130312	0.1766	0.0602
24	TRT020000	0.0315	0.0119
25	TRT070000	0.1871	0.0671
26	TRT100000	0.1220	0.0416
27	TRT120000	0.0237	0.0082
28	TRT125000	57.2158	21.8398
29	TRT130000	0.4063	0.1398
30	EMPTY	0.0183	0.0459
31	TAF050136	0.4328	0.2693
32	TAF070136	0.0056	0.0031
33	TAF080136	0.0426	0.0158
34	TAF090136	1.2369	1.4482
35	TAF100136	0.0554	0.0259
36	TAF105136	1.4996	0.6967
37	TAF110136	1.4217	0.6473
38	TAF115136	1.4014	0.6270
39	TAF120136	0.0200	0.0074
40	TAF125136	0.2142	0.0887
41	TAF130136	1.9032	0.7575
42	TAF120048	0.9448	0.3937
43	TAF130048	2.6363	0.9755
44	TAF120224	0.0999	0.0428
45	TAF130224	0.7504	0.3109

#	Name	Abs Diff	%Diff
46	EMPTY	0.0276	0.0724
47	EMPTY	0.0550	0.1374
48	TAI130048	2.4837	0.9645
49	TAI130136	1.5004	0.6209
50	TAI130224	0.7937	0.3405
51	TAI130312	0.0816	0.0361
52	TRR130000	0.7305	0.3562
53	TSI000001	0.3289	0.4675
54	TSI000002	0.2352	0.2479
55	TSO000001	0.2979	0.4279
56	TSO000002	0.2711	0.3135
57	TAF020136	0.4695	0.4037
58	TAF120312	1.0491	0.4411
59	TAF130312	0.0390	0.0151
60	EMPTY	0.0019	0.0428
61	EMPTY	0.0003	0.0068
62	EMPTY	0.0000	0.0000
63	EMPTY	0.0013	0.0296
64	EMPTY	0.0016	0.0770
65	EMPTY	0.0014	0.0670
66	EMPTY	0.0025	0.1192
67	EMPTY	0.0023	0.1092
68	EMPTY	0.0023	0.1089
69	EMPTY	0.0023	0.1084
70	EMPTY	0.0026	0.1222
71	EMPTY	0.0025	0.1167
72	EMPTY	0.0024	0.1118
73	EMPTY	0.0023	0.1065
74	EMPTY	0.0028	0.1292
75	EMPTY	0.0026	0.1195
76	EMPTY	0.0035	0.1603
77	EMPTY	0.0030	0.1367
78	EMPTY	0.0042	0.1901
79	EMPTY	0.0030	0.1349
80	PAN020136	0.0290	0.1691
81	PAN050136	0.8332	2.9225
82	PAN070136	0.7934	5.5822
83	PAN080136	0.6485	6.4104
84	PAN090136	1.1918	12.8831
85	PAN100136	0.0931	1.6525
86	PAN105136	3.4790	268.9810
87	PAN110136	0.3937	8.1898
88	PAN115136	0.4486	12.4566
89	PAN120136	0.3341	8.3458
90	PAN125136	0.1877	3.8187
91	PAN130136	1.0605	88.7819
92	PAN120048	0.0702	0.6824
93	PAN130048	0.8896	17.8198
94	PAN120224	1.0101	14.7833
95	PAN130224	0.7080	10.5013
96	PAN120312	0.1297	1.4312
97	PAN130312	1.2588	26.0013
98	PAB000136	0.1932	0.4808
99	PAB100136	0.3122	0.7173
100	PAB125136	0.1877	0.4252

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1635	0.4096
102	PRV000001	0.0513	0.2609
103	PSR000001	0.1490	0.3378
104	PFM000001	0.0091	0.4451
105	PAN000136	0.1282	0.1124
106	PFM000002	0.0138	0.6717
107	EMPTY	0.0034	377.7778
108	EMPTY	1.5236	130.9948
109	EMPTY	0.0007	63.6364
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0976	0.0672
113	VPW000002	0.0976	0.0577
114	VPW000003	0.0195	14.4874
115	VPW000004	0.0468	0.0314
116	VPW000005	0.1094	0.0552
117	VPW000006	0.0274	15.2902
118	IPW000001	15.7359	1.9955
119	IPW000002	24.5862	1.3693
120	IPW000003	21.6060	136.5179
121	IPW000004	0.2344	0.0436
122	IPW000005	1.7089	0.4832
123	IPW000006	1.1328	594.9579
124	EMPTY	0.0019	9.8446
125	EMPTY	0.0011	8.0882
126	EMPTY	0.0000	0.0000
127	EMPTY	0.0003	2.0833
128	IHT000001	0.0273	3.3783
129	IHT000002	0.0664	8.8251
130	IHT000003	0.1133	13.2375
131	IHT000004	0.0976	12.6245
132	IHT000005	0.0664	8.3375
133	IHT000006	0.1250	12.1489
134	IHT000007	0.1289	17.8014
135	IHT000008	0.1406	18.6127
136	IHT000009	0.1367	17.6981
137	IHT000010	0.0625	138.5809
138	IHT000011	0.0547	19.9708
139	IHT000012	0.0195	382.3529
140	IHT000013	0.0390	0.0299
141	IHT000014	0.1719	0.0953
142	IHT000015	0.0508	0.0376
143	IHT000016	0.0899	0.0712
144	IHT000017	0.2109	0.1403
145	IHT000018	0.1211	0.0794
146	IHT000019	0.4218	0.2864
147	IHT000020	0.3203	0.2110
148	IHT000021	0.2578	46.7198
149	IHT000022	0.3398	0.2576
150	IHT000023	0.3047	0.2045
151	IHT000024	0.2968	0.2608
152	IHT000025	0.2500	0.1685
153	IHT000026	0.2383	0.1591
154	IHT000027	0.2305	0.1792
155	IHT000028	0.0899	0.0689

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1211	0.0813
157	IHT000030	0.0820	0.0540
158	IHT000031	0.0899	0.0600
159	IHT000032	0.1133	0.0746
160	IHT000033	0.1016	0.0670
161	IHT000034	0.0508	0.0381
162	IHT000035	0.1524	0.0869
163	IHT000036	0.0078	0.0059

Velocity 1 = 4.0856 (ft/sec) (+/- 10.2309 %)
Velocity 2 = 4.1065 (ft/sec) (+/- 3.9655 %)
Pressure drop = -4.8852 (psi)
Tsat in = 267.9352 (deg F) Tsat out = 274.8869 (deg F)
Phi inner = 0.0010 (kBtu/hr-ft2) (+/- 750.0195 %)
Phi outer = 200.1977 (kBtu/hr-ft2) (+/- 1.3405 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.3750	86.0093	85.7217	2.1255e-01	1.9002e+00
1	TRF000002	85.7938	86.2143	85.9831	1.5463e-01	1.9002e+00
2	TFM000001	87.5024	88.2378	87.8825	2.0759e-01	1.9002e+00
3	TIN000001	87.1633	87.5851	87.3344	1.2753e-01	1.9002e+00
4	TRV000001	87.7781	88.6176	88.1163	2.1003e-01	1.9002e+00
5	TSR000001	124.1734	127.6226	126.2294	6.9925e-01	1.9021e+00
6	TAO020136	55.5135	60.0416	57.5441	9.5230e-01	1.9001e+00
7	TAO050136	239.7622	241.7268	240.7512	4.1446e-01	1.9195e+00
8	TAO070136	239.6621	244.2878	241.8409	8.1674e-01	1.9198e+00
9	TAO080136	273.4834	274.4943	274.0256	2.3576e-01	1.9278e+00
10	TAO090136	277.6896	279.3434	278.6689	3.3529e-01	1.9291e+00
11	TAO100136	269.4046	272.9998	270.9736	8.2481e-01	1.9270e+00
12	TAO105136	274.3773	277.6053	275.9769	6.7159e-01	1.9284e+00
13	TAO110136	280.2020	282.1125	281.2340	3.9294e-01	1.9298e+00
14	TAO115136	279.0112	281.3102	279.8560	5.6852e-01	1.9294e+00
15	TAO120136	288.6493	289.8385	289.1524	2.5689e-01	1.9321e+00
16	TAO125136	236.8434	272.0258	256.0591	8.5460e+00	1.9232e+00
17	TAO130136	283.2553	286.1523	284.3781	6.0846e-01	1.9307e+00
18	TAO120048	100.6391	101.6790	101.1488	3.2057e-01	1.9007e+00
19	TAO130048	286.8140	288.8209	287.9218	4.5980e-01	1.9317e+00
20	TAO120224	288.3810	290.2079	289.3333	4.3573e-01	1.9321e+00
21	TAO130224	275.3824	277.8470	276.5144	5.2917e-01	1.9285e+00
22	TAO120312	288.0261	289.9492	288.9404	4.0660e-01	1.9320e+00
23	TAO130312	289.0110	290.3801	289.7246	3.4996e-01	1.9323e+00
24	TRT020000	253.9419	256.6516	254.9124	5.8265e-01	1.9229e+00
25	TRT070000	273.0778	275.1186	274.1631	3.6020e-01	1.9279e+00
26	TRT100000	286.1963	287.6571	286.7383	2.9723e-01	1.9314e+00
27	TRT120000	286.0040	287.7418	286.7162	3.9898e-01	1.9314e+00
28	TRT125000	175.7450	386.0532	262.3140	4.2308e+01	1.9248e+00
29	TRT130000	285.3545	286.9979	286.2173	3.8368e-01	1.9312e+00
30	EMPTY	39.3761	40.2940	39.8581	2.2356e-01	1.9011e+00
31	TAF050136	156.5454	160.9024	159.0675	8.9894e-01	1.9053e+00
32	TAF070136	173.6707	180.1093	176.6088	1.3795e+00	1.9076e+00
33	TAF080136	263.8030	266.2886	265.1051	4.6508e-01	1.9255e+00
34	TAF090136	86.1662	87.3227	86.8034	2.8588e-01	1.9002e+00
35	TAF100136	200.0826	205.5849	203.0988	1.0863e+00	1.9119e+00
36	TAF105136	205.5055	210.2697	208.0465	1.2345e+00	1.9128e+00
37	TAF110136	211.4793	217.1931	213.9199	1.2437e+00	1.9139e+00
38	TAF115136	216.7461	223.6794	219.6614	1.4598e+00	1.9150e+00
39	TAF120136	264.6991	268.8447	265.9668	8.3882e-01	1.9257e+00
40	TAF125136	230.1834	235.1531	232.4586	1.2472e+00	1.9177e+00
41	TAF130136	231.4985	238.3690	235.3132	1.4375e+00	1.9183e+00
42	TAF120048	225.1562	230.4028	227.1356	1.3361e+00	1.9166e+00
43	TAF130048	237.7027	243.2453	239.6756	1.2534e+00	1.9193e+00
44	TAF120224	217.9441	223.4603	220.9272	1.2969e+00	1.9153e+00
45	TAF130224	224.8384	230.3661	226.5886	1.1229e+00	1.9164e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0664	2.5968e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9453	1.6868e-01	1.9011e+00
48	TAI130048	220.6792	226.4781	223.6948	1.5311e+00	1.9158e+00
49	TAI130136	221.6326	224.9505	223.1941	7.0163e-01	1.9157e+00
50	TAI130224	215.7827	217.9838	216.9638	4.6097e-01	1.9145e+00
51	TAI130312	212.8688	215.1677	213.8862	4.9026e-01	1.9139e+00
52	TRR130000	181.8913	184.1312	182.6578	4.0789e-01	1.9085e+00
53	TSI000001	70.6822	71.5325	71.0214	1.8078e-01	1.9000e+00
54	TSI000002	93.0975	94.1417	93.6717	2.6784e-01	1.9004e+00
55	TSO000001	69.9544	70.8102	70.3934	1.9237e-01	1.9000e+00
56	TSO000002	85.3901	86.3383	85.8223	2.3423e-01	1.9002e+00
57	TAF020136	113.4610	118.0112	114.9995	9.2307e-01	1.9014e+00
58	TAF120312	225.9301	231.4262	228.8298	1.3134e+00	1.9169e+00
59	TAF130312	256.3882	260.4745	258.1890	9.4826e-01	1.9237e+00
60	EMPTY	4.4238	4.4531	4.4381	7.2383e-03	0.0000e+00
61	EMPTY	4.4092	4.4238	4.4168	4.5378e-03	0.0000e+00
62	EMPTY	4.3896	4.4043	4.3965	3.9459e-03	0.0000e+00
63	EMPTY	4.3799	4.3945	4.3864	3.7706e-03	0.0000e+00
64	EMPTY	2.0752	2.0801	2.0760	2.4344e-03	0.0000e+00
65	EMPTY	2.0898	2.0947	2.0902	1.3381e-03	0.0000e+00
66	EMPTY	2.0947	2.1045	2.0979	2.5362e-03	0.0000e+00
67	EMPTY	2.1045	2.1094	2.1076	2.3675e-03	0.0000e+00
68	EMPTY	2.1045	2.1143	2.1117	2.6543e-03	0.0000e+00
69	EMPTY	2.1191	2.1240	2.1222	2.3941e-03	0.0000e+00
70	EMPTY	2.1240	2.1289	2.1282	1.7115e-03	0.0000e+00
71	EMPTY	2.1387	2.1436	2.1431	1.4797e-03	0.0000e+00
72	EMPTY	2.1436	2.1484	2.1479	1.6028e-03	0.0000e+00
73	EMPTY	2.1533	2.1631	2.1589	2.2080e-03	0.0000e+00
74	EMPTY	2.1631	2.1680	2.1665	2.2603e-03	0.0000e+00
75	EMPTY	2.1729	2.1777	2.1764	2.2146e-03	0.0000e+00
76	EMPTY	2.1729	2.1826	2.1823	1.5314e-03	0.0000e+00
77	EMPTY	2.1924	2.1924	2.1924	0.0000e+00	0.0000e+00
78	EMPTY	2.2021	2.2070	2.2069	6.9053e-04	0.0000e+00
79	EMPTY	2.2217	2.2217	2.2217	0.0000e+00	0.0000e+00
80	PAN020136	-15.7824	-4.7961	-12.4942	2.5125e+00	8.7056e-01
81	PAN050136	-26.2668	-22.6047	-24.3472	8.7633e-01	1.6811e+00
82	PAN070136	-21.1360	-17.1687	-19.1340	1.0639e+00	8.7131e-01
83	PAN080136	-12.9347	-8.9674	-10.8122	9.7261e-01	8.7042e-01
84	PAN090136	-13.2045	-5.8803	-10.9828	2.2305e+00	8.7043e-01
85	PAN100136	-12.2363	-12.0074	-12.1279	4.3841e-02	8.7053e-01
86	PAN105136	-7.7005	21.2912	5.3686	6.7493e+00	8.7010e-01
87	PAN110136	-7.3615	12.7801	1.0812	5.6700e+00	8.7000e-01
88	PAN115136	-7.5259	14.6757	-0.4229	4.3508e+00	8.7000e-01
89	PAN120136	-6.1013	2.4437	-4.1481	2.4485e+00	8.7006e-01
90	PAN125136	-6.1116	13.0382	-2.4937	6.0627e+00	8.7002e-01
91	PAN130136	-8.0717	18.0971	5.6170	6.2609e+00	8.7011e-01
92	PAN120048	-11.9516	18.2608	-2.0258	8.1975e+00	8.7001e-01
93	PAN130048	-10.9568	5.3701	-1.8016	4.1914e+00	8.7001e-01
94	PAN120224	-12.3212	13.8476	-1.1274	6.8224e+00	8.7000e-01
95	PAN130224	-4.6699	4.4854	-0.1548	2.3128e+00	8.7000e-01
96	PAN120312	-10.9422	12.7089	-0.2000	6.2391e+00	8.7000e-01
97	PAN130312	-6.0330	5.9452	-0.0118	2.4081e+00	8.7000e-01
98	PAB000136	40.2060	40.8011	40.3817	1.3221e-01	5.8872e-01
99	PAB100136	44.5829	45.5442	45.0160	2.5832e-01	5.9082e-01
100	PAB125136	44.7942	45.9844	45.3279	2.4895e-01	5.9097e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8917	40.7462	40.2433	1.8885e-01	7.5672e-01
102	PRV000001	19.4847	19.7289	19.6215	4.7052e-02	7.5160e-01
103	PSR000001	44.6335	44.7556	44.7410	4.0071e-02	7.5829e-01
104	PFM000001	2.3469	2.6215	2.4769	6.6920e-02	5.0004e-01
105	PAN000136	-143.7635	-119.0443	-135.2491	4.9597e+00	4.9316e+00
106	PFM000002	2.4508	2.5683	2.5028	2.6094e-02	2.0010e-01
107	EMPTY	-0.0049	0.0049	-0.0011	3.8574e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-0.1242	7.5061e+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	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	144.8505	145.6318	145.2373	1.7420e-01	1.1897e+00
113	VPW000002	168.8815	169.2721	169.0845	9.6332e-02	1.2982e+00
114	VPW000003	-0.1427	0.2479	0.1073	9.6976e-02	8.1000e-01
115	VPW000004	148.9295	149.5155	149.1600	1.4057e-01	1.2071e+00
116	VPW000005	197.9455	198.5314	198.2188	1.5784e-01	1.4389e+00
117	VPW000006	-0.0864	0.3042	0.1636	1.1189e-01	8.1000e-01
118	IPW000001	759.4992	765.3563	763.5991	1.5900e+00	1.0100e+01
119	IPW000002	1823.9115	1835.6191	1829.5303	3.0444e+00	1.6568e+01
120	IPW000003	18.3375	22.2375	19.7415	1.0453e+00	8.1015e+00
121	IPW000004	528.9963	530.9495	529.9337	4.8166e-01	4.6397e+00
122	IPW000005	353.3958	355.8369	354.9191	4.6933e-01	3.4441e+00
123	IPW000006	0.1221	1.0987	0.5616	2.8334e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0204	3.6500e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.8523e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0174	3.2955e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0143	3.0945e-03	0.0000e+00
128	IHT000001	-1.3784	-0.4019	-0.8159	2.8900e-01	4.1000e+00
129	IHT000002	-1.4048	-0.2329	-0.7251	2.7969e-01	4.1000e+00
130	IHT000003	-1.4536	-0.2817	-0.7895	2.7902e-01	4.1000e+00
131	IHT000004	-1.3747	-0.2028	-0.7145	2.6438e-01	4.1000e+00
132	IHT000005	-1.3784	-0.2066	-0.7573	2.8094e-01	4.1000e+00
133	IHT000006	-1.6226	-0.4507	-1.0015	2.6672e-01	4.1000e+00
134	IHT000007	-1.4273	-0.2554	-0.7280	2.7078e-01	4.1000e+00
135	IHT000008	-1.5249	-0.3531	-0.7593	2.7576e-01	4.1000e+00
136	IHT000009	-1.3935	-0.4169	-0.7919	2.7857e-01	4.1000e+00
137	IHT000010	-0.7287	1.0291	0.0174	3.6739e-01	4.1000e+00
138	IHT000011	-0.3042	1.2583	0.3169	3.6739e-01	4.1000e+00
139	IHT000012	-0.5559	0.8113	0.0340	3.4510e-01	4.1000e+00
140	IHT000013	129.8265	131.5843	130.5453	4.2212e-01	4.3028e+00
141	IHT000014	179.4922	181.2500	180.3672	4.0287e-01	4.4792e+00
142	IHT000015	134.5215	136.0840	135.2793	4.2433e-01	4.3174e+00
143	IHT000016	125.6460	127.4039	126.3452	4.0258e-01	4.2903e+00
144	IHT000017	148.2798	151.4048	149.9087	6.9207e-01	4.3655e+00
145	IHT000018	151.3897	153.5381	152.4600	4.5718e-01	4.3743e+00
146	IHT000019	145.9397	148.2835	146.9867	6.0844e-01	4.3555e+00
147	IHT000020	150.5296	153.0686	151.5961	6.3284e-01	4.3713e+00
148	IHT000021	-2.2198	0.7099	-0.8956	7.5623e-01	4.1000e+00
149	IHT000022	130.6678	132.8162	131.7225	5.7724e-01	4.3064e+00
150	IHT000023	147.8215	149.7746	148.6769	5.2332e-01	4.3612e+00
151	IHT000024	112.6089	114.9527	113.6284	5.4575e-01	4.2545e+00
152	IHT000025	147.0778	149.2263	148.1129	4.8206e-01	4.3593e+00
153	IHT000026	148.6591	150.4169	149.5576	4.3584e-01	4.3643e+00
154	IHT000027	127.5053	129.4584	128.3999	4.3600e-01	4.2964e+00
155	IHT000028	129.4396	131.9787	130.5841	6.7774e-01	4.3029e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	147.7689	150.5033	148.9995	6.5703e-01	4.3623e+00
157	IHT000030	150.7662	153.6959	152.0083	6.5168e-01	4.3727e+00
158	IHT000031	148.8770	151.6113	150.0371	6.0285e-01	4.3659e+00
159	IHT000032	150.6836	153.2227	151.8477	6.1632e-01	4.3722e+00
160	IHT000033	150.6836	153.2226	151.7890	6.2217e-01	4.3720e+00
161	IHT000034	132.5796	134.3374	133.4898	4.5440e-01	4.3118e+00
162	IHT000035	174.2863	176.2395	175.2706	4.9906e-01	4.4589e+00
163	IHT000036	131.0622	132.8200	131.8239	4.5890e-01	4.3067e+00

Test: Aug01_26

sum2

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Velocity 1 = 4.0620 (ft/sec) (+/- 10.3501 %)
Velocity 2 = 4.0714 (ft/sec) (+/- 4.0234 %)
Pressure drop = -4.8935 (psi)
Tsat in = 268.0257 (deg F) Tsat out = 275.0928 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 1421.8405 %)
Phi outer = 200.7484 (kBtu/hr-ft2) (+/- 1.3392 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.3750	86.0093	85.6921	1.8742e-01	1.9002e+00
1	TRF000002	85.7938	86.2143	85.9074	1.2172e-01	1.9002e+00
2	TFM000001	87.7122	88.5515	88.1445	1.9508e-01	1.9002e+00
3	TIN000001	87.2687	87.9007	87.5553	1.4588e-01	1.9002e+00
4	TRV000001	88.0912	89.1394	88.6196	2.3088e-01	1.9002e+00
5	TSR000001	127.7219	130.0513	128.9736	5.4940e-01	1.9023e+00
6	TAO020136	56.8084	58.5345	57.6156	3.4949e-01	1.9001e+00
7	TAO050136	239.7600	242.6571	241.4141	5.3265e-01	1.9197e+00
8	TAO070136	241.3636	244.8536	242.9942	9.4586e-01	1.9201e+00
9	TAO080136	273.7577	274.9511	274.4229	2.7470e-01	1.9279e+00
10	TAO090136	278.7002	279.7083	279.2393	2.4432e-01	1.9293e+00
11	TAO100136	269.4030	273.4600	271.6573	8.7782e-01	1.9272e+00
12	TAO105136	275.3002	278.0653	276.7607	6.3804e-01	1.9286e+00
13	TAO110136	280.4737	282.2003	281.4245	4.0687e-01	1.9299e+00
14	TAO115136	278.9193	282.5959	280.5858	7.6601e-01	1.9296e+00
15	TAO120136	288.6493	290.2039	289.3333	3.2335e-01	1.9321e+00
16	TAO125136	217.7223	219.5322	218.4851	3.8869e-01	1.9148e+00
17	TAO130136	283.8008	286.0602	285.0475	5.0434e-01	1.9309e+00
18	TAO120048	101.2625	102.3007	101.8564	2.8982e-01	1.9007e+00
19	TAO130048	287.6350	289.0931	288.6009	3.2212e-01	1.9319e+00
20	TAO120224	288.5637	290.0257	289.2985	3.3682e-01	1.9321e+00
21	TAO130224	275.9297	277.6653	276.8330	4.3930e-01	1.9286e+00
22	TAO120312	287.9355	289.9492	289.1619	4.6674e-01	1.9321e+00
23	TAO130312	289.2847	290.4704	289.8028	2.8580e-01	1.9323e+00
24	TRT020000	254.4093	256.8389	255.4602	5.4118e-01	1.9230e+00
25	TRT070000	273.9125	275.3970	274.4807	3.4695e-01	1.9280e+00
26	TRT100000	286.4693	287.6571	287.0392	3.1513e-01	1.9315e+00
27	TRT120000	286.0953	288.1983	287.0835	4.8224e-01	1.9315e+00
28	TRT125000	85.1588	456.2474	290.8968	9.2201e+01	1.9326e+00
29	TRT130000	285.6278	287.4534	286.6134	3.8124e-01	1.9314e+00
30	EMPTY	39.3761	40.0646	39.8352	2.0736e-01	1.9011e+00
31	TAF050136	156.7432	161.2978	159.4927	9.9313e-01	1.9054e+00
32	TAF070136	175.0353	179.8167	177.1142	1.0056e+00	1.9077e+00
33	TAF080136	264.0801	266.4679	265.0881	5.6482e-01	1.9255e+00
34	TAF090136	86.0611	87.1129	86.5703	2.7538e-01	1.9002e+00
35	TAF100136	201.2431	206.1636	203.7723	1.2648e+00	1.9120e+00
36	TAF105136	206.3651	211.4081	209.2245	1.1817e+00	1.9130e+00
37	TAF110136	211.6670	217.9533	215.0070	1.3946e+00	1.9141e+00
38	TAF115136	218.1734	225.1018	221.0196	1.4756e+00	1.9153e+00
39	TAF120136	264.6078	270.4067	266.3036	1.0048e+00	1.9258e+00
40	TAF125136	230.5609	236.6474	233.5766	1.5305e+00	1.9179e+00
41	TAF130136	232.9123	240.2477	236.1764	1.7688e+00	1.9185e+00
42	TAF120048	226.3024	231.8300	228.7706	1.3603e+00	1.9169e+00
43	TAF130048	238.0794	243.3384	240.7069	1.1540e+00	1.9195e+00
44	TAF120224	219.1832	226.0223	221.9251	1.3484e+00	1.9155e+00
45	TAF130224	224.6479	230.0816	227.5020	1.1977e+00	1.9166e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0894	2.1788e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9683	1.6772e-01	1.9011e+00
48	TAI130048	222.0124	226.5730	224.0011	1.0723e+00	1.9159e+00
49	TAI130136	222.2958	225.0455	223.9653	6.5753e-01	1.9159e+00
50	TAI130224	217.0273	219.5125	217.9796	5.6110e-01	1.9147e+00
51	TAI130312	214.0183	215.9324	214.9449	4.6014e-01	1.9141e+00
52	TRR130000	182.1828	184.4239	183.0023	3.4770e-01	1.9086e+00
53	TSI000001	70.7892	71.5341	71.1379	2.0856e-01	1.9000e+00
54	TSI000002	93.2010	94.2461	93.7487	3.0228e-01	1.9004e+00
55	TSO000001	70.0620	70.9178	70.5028	2.3035e-01	1.9000e+00
56	TSO000002	85.4954	86.4430	85.9884	2.1317e-01	1.9002e+00
57	TAF020136	112.7358	116.9788	115.2834	7.9768e-01	1.9014e+00
58	TAF120312	227.0689	231.8996	229.5327	1.2656e+00	1.9171e+00
59	TAF130312	256.7614	260.2895	258.4843	8.1560e-01	1.9238e+00
60	EMPTY	4.4287	4.4629	4.4479	7.6036e-03	0.0000e+00
61	EMPTY	4.4141	4.4385	4.4271	4.4599e-03	0.0000e+00
62	EMPTY	4.3994	4.4141	4.4076	2.8659e-03	0.0000e+00
63	EMPTY	4.3896	4.4043	4.3977	2.9197e-03	0.0000e+00
64	EMPTY	2.0801	2.0850	2.0814	2.2146e-03	0.0000e+00
65	EMPTY	2.0898	2.0947	2.0946	6.9053e-04	0.0000e+00
66	EMPTY	2.0996	2.1045	2.1010	2.2146e-03	0.0000e+00
67	EMPTY	2.1094	2.1143	2.1103	1.8950e-03	0.0000e+00
68	EMPTY	2.1143	2.1191	2.1153	2.0432e-03	0.0000e+00
69	EMPTY	2.1240	2.1289	2.1244	1.3381e-03	0.0000e+00
70	EMPTY	2.1289	2.1338	2.1328	1.9730e-03	0.0000e+00
71	EMPTY	2.1436	2.1533	2.1471	2.4244e-03	0.0000e+00
72	EMPTY	2.1484	2.1533	2.1524	1.8950e-03	0.0000e+00
73	EMPTY	2.1582	2.1680	2.1631	1.3951e-03	0.0000e+00
74	EMPTY	2.1680	2.1729	2.1691	2.1065e-03	0.0000e+00
75	EMPTY	2.1777	2.1826	2.1795	2.3675e-03	0.0000e+00
76	EMPTY	2.1826	2.1875	2.1863	2.1065e-03	0.0000e+00
77	EMPTY	2.1924	2.1973	2.1971	9.6655e-04	0.0000e+00
78	EMPTY	2.2070	2.2119	2.2114	1.4797e-03	0.0000e+00
79	EMPTY	2.2217	2.2266	2.2261	1.4797e-03	0.0000e+00
80	PAN020136	-16.4691	-4.2621	-13.1915	2.2350e+00	8.7062e-01
81	PAN050136	-26.2668	-21.6891	-24.2740	9.3880e-01	1.6811e+00
82	PAN070136	-22.5856	-18.4657	-20.2327	8.7484e-01	8.7147e-01
83	PAN080136	-13.2398	-6.9074	-9.4282	1.3506e+00	8.7032e-01
84	PAN090136	-13.1282	-5.2699	-8.5902	1.7547e+00	8.7027e-01
85	PAN100136	-12.2363	-12.0074	-12.1295	4.6241e-02	8.7053e-01
86	PAN105136	-7.7005	29.5309	12.1954	8.9275e+00	8.7053e-01
87	PAN110136	-7.3615	14.1534	0.2618	6.7198e+00	8.7000e-01
88	PAN115136	-5.6185	12.0054	2.4961	4.1785e+00	8.7002e-01
89	PAN120136	-6.1013	-0.8370	-4.9858	1.6567e+00	8.7009e-01
90	PAN125136	-6.1116	19.7521	-2.5990	6.3706e+00	8.7002e-01
91	PAN130136	-6.2406	23.8192	7.1215	5.9025e+00	8.7018e-01
92	PAN120048	-9.4339	14.8275	2.5244	5.1873e+00	8.7002e-01
93	PAN130048	-4.9296	11.5499	0.9923	3.2718e+00	8.7000e-01
94	PAN120224	-12.3975	13.7713	1.0851	7.5849e+00	8.7000e-01
95	PAN130224	-5.4328	5.3246	-0.4157	2.1078e+00	8.7000e-01
96	PAN120312	-11.0948	12.4800	-0.1466	5.7246e+00	8.7000e-01
97	PAN130312	-6.1093	6.0215	-0.5932	2.7125e+00	8.7000e-01
98	PAB000136	40.2975	40.8011	40.4431	1.1239e-01	5.8875e-01
99	PAB100136	44.5371	45.8189	45.3556	2.6702e-01	5.9098e-01
100	PAB125136	44.8857	46.3506	45.4817	2.4720e-01	5.9104e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8917	40.6241	40.2140	1.6500e-01	7.5671e-01
102	PRV000001	19.4847	19.6068	19.5970	3.3453e-02	7.5160e-01
103	PSR000001	44.7556	44.9998	44.8582	5.1496e-02	7.5834e-01
104	PFM000001	2.2553	2.5300	2.4476	7.2231e-02	5.0004e-01
105	PAN000136	-140.5591	-126.8262	-135.4780	3.3142e+00	4.9316e+00
106	PFM000002	2.4173	2.5012	2.4592	2.0127e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	0.0007	3.8219e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-4.1691	5.3315e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0000	2.9594e-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	145.0458	145.4365	145.2490	1.1133e-01	1.1898e+00
113	VPW000002	168.8815	169.2721	169.1314	1.1864e-01	1.2984e+00
114	VPW000003	0.0526	0.2479	0.1268	9.5765e-02	8.1000e-01
115	VPW000004	148.9295	149.3201	149.1288	1.0052e-01	1.2069e+00
116	VPW000005	197.9455	198.3361	198.2110	1.0259e-01	1.4389e+00
117	VPW000006	0.1089	0.3042	0.1792	9.4702e-02	8.1000e-01
118	IPW000001	779.0226	784.8797	781.5995	1.4460e+00	1.0185e+01
119	IPW000002	1810.2526	1825.8628	1816.9263	4.5819e+00	1.6481e+01
120	IPW000003	-5.0625	4.6875	-0.3825	1.8053e+00	8.1000e+00
121	IPW000004	535.8323	538.2737	536.6719	6.9082e-01	4.6878e+00
122	IPW000005	354.3722	355.3487	354.9386	3.1749e-01	3.4442e+00
123	IPW000006	-0.3662	1.0987	0.4834	3.3901e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0195	3.8206e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	3.0708e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0158	3.4961e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0149	2.8608e-03	0.0000e+00
128	IHT000001	-1.7691	-0.0113	-0.7456	2.9676e-01	4.1000e+00
129	IHT000002	-1.6001	-0.0376	-0.6626	2.5572e-01	4.1000e+00
130	IHT000003	-1.6489	-0.0864	-0.7231	2.6707e-01	4.1000e+00
131	IHT000004	-1.3747	-0.0075	-0.6247	2.0640e-01	4.1000e+00
132	IHT000005	-1.1831	-0.2066	-0.6792	1.9765e-01	4.1000e+00
133	IHT000006	-1.4273	-0.4507	-0.9039	2.1043e-01	4.1000e+00
134	IHT000007	-1.0366	-0.0601	-0.6070	2.2668e-01	4.1000e+00
135	IHT000008	-1.1343	-0.1578	-0.6773	2.3875e-01	4.1000e+00
136	IHT000009	-1.1982	-0.2216	-0.6786	2.5146e-01	4.1000e+00
137	IHT000010	-0.9240	1.0291	0.0135	4.2499e-01	4.1000e+00
138	IHT000011	-0.4995	1.4536	0.3559	4.1552e-01	4.1000e+00
139	IHT000012	-0.7512	1.0066	0.0340	4.1851e-01	4.1000e+00
140	IHT000013	129.6311	131.5843	130.5257	4.3956e-01	4.3028e+00
141	IHT000014	179.4922	181.4453	180.3359	4.5066e-01	4.4791e+00
142	IHT000015	134.5215	136.2793	135.2519	4.1724e-01	4.3173e+00
143	IHT000016	125.4507	127.4039	126.3101	4.2682e-01	4.2902e+00
144	IHT000017	148.6704	151.6001	150.2056	6.5198e-01	4.3665e+00
145	IHT000018	151.3897	153.5381	152.5108	5.7292e-01	4.3745e+00
146	IHT000019	145.9397	148.4788	147.0062	5.2676e-01	4.3556e+00
147	IHT000020	150.3343	153.2640	151.6586	5.6811e-01	4.3715e+00
148	IHT000021	-2.2198	0.7099	-0.8409	6.0671e-01	4.1000e+00
149	IHT000022	130.8631	133.0116	131.7577	4.6201e-01	4.3065e+00
150	IHT000023	147.8215	149.9700	148.7433	4.3591e-01	4.3615e+00
151	IHT000024	112.8043	114.9527	113.6753	4.6052e-01	4.2547e+00
152	IHT000025	147.0778	149.4216	148.1442	4.8361e-01	4.3594e+00
153	IHT000026	148.6591	151.0028	149.5888	4.9056e-01	4.3644e+00
154	IHT000027	127.7006	130.0443	128.4194	4.6091e-01	4.2964e+00
155	IHT000028	129.6349	131.9787	130.5802	6.5359e-01	4.3029e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	147.9642	150.5033	149.0502	6.4496e-01	4.3625e+00
157	IHT000030	150.7662	153.5006	152.0630	6.9336e-01	4.3729e+00
158	IHT000031	148.6816	151.6113	150.1230	6.7875e-01	4.3662e+00
159	IHT000032	150.4883	153.6133	151.9141	7.2571e-01	4.3724e+00
160	IHT000033	150.2930	153.4180	151.8359	7.3531e-01	4.3721e+00
161	IHT000034	132.5796	134.9234	133.4663	5.5131e-01	4.3118e+00
162	IHT000035	174.0910	176.2395	175.2550	5.6766e-01	4.4589e+00
163	IHT000036	130.8669	132.8200	131.8044	5.1750e-01	4.3067e+00

Velocity 1 = 0.023600 (ft/sec)
 Velocity 2 = 0.035100 (ft/sec)
 Pressure Drop = 0.008300 (psi)
 Tsat in = 0.090485 (deg F) Tsat out = 0.205902 (deg F)
 Phi inner = 0.001000 (kBtu/hr-ft2) Phi outer = 0.550705 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF0000001	0.0296	0.0345
1	TRF0000002	0.0757	0.0880
2	TFM0000001	0.2620	0.2981
3	TIN0000001	0.2209	0.2529
4	TRV0000001	0.5033	0.5712
5	TSR0000001	2.7442	2.1740
6	TAO020136	0.0715	0.1243
7	TAO050136	0.6629	0.2753
8	TAO070136	1.1533	0.4769
9	TAO080136	0.3973	0.1450
10	TAO090136	0.5704	0.2047
11	TAO100136	0.6837	0.2523
12	TAO105136	0.7838	0.2840
13	TAO110136	0.1905	0.0677
14	TAO115136	0.7298	0.2608
15	TAO120136	0.1809	0.0626
16	TAO125136	37.5740	14.6740
17	TAO130136	0.6694	0.2354
18	TAO120048	0.7076	0.6996
19	TAO130048	0.6791	0.2359
20	TAO120224	0.0348	0.0120
21	TAO130224	0.3186	0.1152
22	TAO120312	0.2215	0.0767
23	TAO130312	0.0782	0.0270
24	TRT020000	0.5478	0.2149
25	TRT070000	0.3176	0.1159
26	TRT100000	0.3009	0.1049
27	TRT120000	0.3673	0.1281
28	TRT125000	28.5828	10.8964
29	TRT130000	0.3961	0.1384
30	EMPTY	0.0229	0.0575
31	TAF050136	0.4252	0.2673
32	TAF070136	0.5054	0.2862
33	TAF080136	0.0170	0.0064
34	TAF090136	0.2331	0.2685
35	TAF100136	0.6735	0.3316
36	TAF105136	1.1780	0.5662
37	TAF110136	1.0871	0.5082
38	TAF115136	1.3582	0.6183
39	TAF120136	0.3368	0.1266
40	TAF125136	1.1180	0.4809
41	TAF130136	0.8632	0.3668
42	TAF120048	1.6350	0.7198
43	TAF130048	1.0313	0.4303
44	TAF120224	0.9979	0.4517
45	TAF130224	0.9134	0.4031

#	Name	Abs Diff	%Diff
46	EMPTY	0.0230	0.0604
47	EMPTY	0.0230	0.0576
48	TAI130048	0.3063	0.1369
49	TAI130136	0.7712	0.3455
50	TAI130224	1.0158	0.4682
51	TAI130312	1.0587	0.4950
52	TRR130000	0.3445	0.1886
53	TSI000001	0.1165	0.1640
54	TSI000002	0.0770	0.0822
55	TSO000001	0.1094	0.1554
56	TSO000002	0.1661	0.1935
57	TAF020136	0.2839	0.2469
58	TAF120312	0.7029	0.3072
59	TAF130312	0.2953	0.1144
60	EMPTY	0.0098	0.2208
61	EMPTY	0.0103	0.2332
62	EMPTY	0.0111	0.2525
63	EMPTY	0.0113	0.2576
64	EMPTY	0.0034	0.1636
65	EMPTY	0.0044	0.2105
66	EMPTY	0.0031	0.1478
67	EMPTY	0.0027	0.1281
68	EMPTY	0.0036	0.1705
69	EMPTY	0.0022	0.1037
70	EMPTY	0.0046	0.2161
71	EMPTY	0.0040	0.1866
72	EMPTY	0.0045	0.2095
73	EMPTY	0.0042	0.1945
74	EMPTY	0.0026	0.1200
75	EMPTY	0.0031	0.1424
76	EMPTY	0.0040	0.1833
77	EMPTY	0.0047	0.2144
78	EMPTY	0.0045	0.2039
79	EMPTY	0.0044	0.1980
80	PAN020136	0.6973	5.5810
81	PAN050136	0.0732	0.3007
82	PAN070136	1.0987	5.7421
83	PAN080136	1.3840	12.8004
84	PAN090136	2.3926	21.7850
85	PAN100136	0.0016	0.0132
86	PAN105136	6.8268	127.1617
87	PAN110136	0.8194	75.7862
88	PAN115136	2.9190	690.2341
89	PAN120136	0.8377	20.1948
90	PAN125136	0.1053	4.2226
91	PAN130136	1.5045	26.7848
92	PAN120048	4.5502	224.6125
93	PAN130048	2.7939	155.0788
94	PAN120224	2.2125	196.2480
95	PAN130224	0.2609	168.5401
96	PAN120312	0.0534	26.7000
97	PAN130312	0.5814	4927.1187
98	PAB000136	0.0614	0.1521
99	PAB100136	0.3396	0.7544
100	PAB125136	0.1538	0.3393

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0293	0.0728
102	PRV000001	0.0245	0.1249
103	PSR000001	0.1172	0.2619
104	PFM000001	0.0293	1.1829
105	PAN000136	0.2289	0.1692
106	PFM000002	0.0436	1.7421
107	EMPTY	0.0018	163.6364
108	EMPTY	4.0449	3256.7632
109	EMPTY	0.0021	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0117	0.0080
113	VPW000002	0.0469	0.0277
114	VPW000003	0.0195	18.1733
115	VPW000004	0.0312	0.0209
116	VPW000005	0.0078	0.0039
117	VPW000006	0.0156	9.5354
118	IPW000001	18.0004	2.3573
119	IPW000002	12.6040	0.6889
120	IPW000003	20.1240	101.9375
121	IPW000004	6.7382	1.2715
122	IPW000005	0.0195	0.0055
123	IPW000006	0.0782	13.9245
124	EMPTY	0.0009	4.4118
125	EMPTY	0.0001	0.7194
126	EMPTY	0.0016	9.1954
127	EMPTY	0.0006	4.1958
128	IHT000001	0.0703	8.6163
129	IHT000002	0.0625	8.6195
130	IHT000003	0.0664	8.4104
131	IHT000004	0.0898	12.5682
132	IHT000005	0.0781	10.3130
133	IHT000006	0.0976	9.7454
134	IHT000007	0.1210	16.6209
135	IHT000008	0.0820	10.7994
136	IHT000009	0.1133	14.3074
137	IHT000010	0.0039	22.4138
138	IHT000011	0.0390	12.3067
139	IHT000012	0.0000	0.0000
140	IHT000013	0.0196	0.0150
141	IHT000014	0.0313	0.0174
142	IHT000015	0.0274	0.0202
143	IHT000016	0.0351	0.0278
144	IHT000017	0.2969	0.1980
145	IHT000018	0.0508	0.0333
146	IHT000019	0.0195	0.0133
147	IHT000020	0.0625	0.0412
148	IHT000021	0.0547	6.1076
149	IHT000022	0.0352	0.0267
150	IHT000023	0.0664	0.0447
151	IHT000024	0.0469	0.0413
152	IHT000025	0.0313	0.0211
153	IHT000026	0.0312	0.0209
154	IHT000027	0.0195	0.0152
155	IHT000028	0.0039	0.0030

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0507	0.0340
157	IHT000030	0.0547	0.0360
158	IHT000031	0.0859	0.0573
159	IHT000032	0.0664	0.0437
160	IHT000033	0.0469	0.0309
161	IHT000034	0.0235	0.0176
162	IHT000035	0.0156	0.0089
163	IHT000036	0.0195	0.0148

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Velocity 1 = 3.8686 (ft/sec) (+/- 11.4097 %)
Velocity 2 = 3.8702 (ft/sec) (+/- 4.3904 %)
Pressure drop = -4.8118 (psi)
Tsats in = 268.0352 (deg F) Tsats out = 275.7689 (deg F)
Phi inner = -0.0009 (kBtu/hr-ft2) (+/- 711.4663 %)
Phi outer = 200.1279 (kBtu/hr-ft2) (+/- 1.3395 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.1635	85.7979	85.5484	1.7969e-01	1.9002e+00
1	TRF000002	85.3732	86.0041	85.8401	1.4895e-01	1.9002e+00
2	TFM000001	87.5022	88.6556	88.1146	2.0694e-01	1.9002e+00
3	TIN000001	87.2693	87.9005	87.5887	1.5614e-01	1.9002e+00
4	TRV000001	87.6726	88.9285	88.4307	2.5084e-01	1.9002e+00
5	TSR000001	125.2894	128.3293	126.6438	7.6972e-01	1.9022e+00
6	TAO020136	54.1080	59.2880	57.0669	1.2845e+00	1.9001e+00
7	TAO050136	245.4548	247.4109	246.3713	4.4994e-01	1.9208e+00
8	TAO070136	246.5498	251.1551	248.5509	9.8936e-01	1.9214e+00
9	TAO080136	278.0587	279.2487	278.6885	2.4851e-01	1.9291e+00
10	TAO090136	282.7306	284.0129	283.2766	2.6872e-01	1.9304e+00
11	TAO100136	275.2991	278.4228	276.7542	7.0399e-01	1.9286e+00
12	TAO105136	280.6431	282.7579	281.6693	4.9260e-01	1.9299e+00
13	TAO110136	284.7444	286.2852	285.4349	3.8617e-01	1.9310e+00
14	TAO115136	283.7885	286.9053	284.9695	5.8822e-01	1.9309e+00
15	TAO120136	291.0238	292.3939	291.7988	3.6716e-01	1.9329e+00
16	TAO125136	215.7203	219.0559	217.4979	6.9184e-01	1.9146e+00
17	TAO130136	287.1362	289.1262	288.0992	4.0772e-01	1.9318e+00
18	TAO120048	103.4395	104.5800	104.0491	3.0384e-01	1.9008e+00
19	TAO130048	287.0883	289.0012	288.2286	4.2430e-01	1.9318e+00
20	TAO120224	290.2072	292.4886	291.4633	4.7888e-01	1.9328e+00
21	TAO130224	278.3016	280.3943	279.2257	6.1409e-01	1.9293e+00
22	TAO120312	289.7648	291.6858	290.9215	4.2001e-01	1.9326e+00
23	TAO130312	289.4659	291.1984	290.3233	3.5382e-01	1.9324e+00
24	TRT020000	260.1037	262.8045	261.5685	5.3284e-01	1.9246e+00
25	TRT070000	276.7885	277.9926	277.4553	2.5444e-01	1.9288e+00
26	TRT100000	288.9304	290.2992	289.7042	2.8385e-01	1.9322e+00
27	TRT120000	288.4709	290.4794	289.3405	4.2268e-01	1.9321e+00
28	TRT125000	255.7732	456.4185	425.8859	5.9384e+01	1.9835e+00
29	TRT130000	289.0938	290.7349	290.0742	3.5688e-01	1.9324e+00
30	EMPTY	39.3761	40.2940	39.8168	2.1166e-01	1.9011e+00
31	TAF050136	161.6917	165.8347	163.5626	1.0938e+00	1.9059e+00
32	TAF070136	178.2565	183.5100	180.7685	1.0934e+00	1.9082e+00
33	TAF080136	266.0084	267.5722	266.7262	3.8992e-01	1.9259e+00
34	TAF090136	88.8930	89.9419	89.3755	2.4231e-01	1.9003e+00
35	TAF100136	208.3770	212.7956	210.6720	1.0290e+00	1.9133e+00
36	TAF105136	213.7823	219.2695	216.5395	1.1407e+00	1.9144e+00
37	TAF110136	220.6099	225.5332	222.9019	1.1762e+00	1.9157e+00
38	TAF115136	225.5745	232.5656	229.0728	1.4237e+00	1.9170e+00
39	TAF120136	268.1068	272.3360	269.6049	7.1673e-01	1.9267e+00
40	TAF125136	237.6720	245.4086	241.2856	1.5647e+00	1.9197e+00
41	TAF130136	241.7473	246.9892	244.6165	1.0999e+00	1.9204e+00
42	TAF120048	234.3027	239.9919	236.7853	1.3163e+00	1.9186e+00
43	TAF130048	244.9312	249.2336	247.2549	9.1666e-01	1.9211e+00
44	TAF120224	226.1151	232.1695	229.1289	1.7464e+00	1.9170e+00
45	TAF130224	231.6033	237.1079	234.3760	1.4292e+00	1.9181e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1216	2.1392e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9545	1.6219e-01	1.9011e+00
48	TAI130048	231.6877	236.4084	234.2228	1.1713e+00	1.9181e+00
49	TAI130136	232.0336	234.2005	233.0062	4.8130e-01	1.9178e+00
50	TAI130224	225.2330	227.7060	226.2758	5.0102e-01	1.9164e+00
51	TAI130312	221.4686	223.9444	222.6384	4.6724e-01	1.9156e+00
52	TRR130000	188.4050	190.4416	189.3754	4.6511e-01	1.9096e+00
53	TSI000001	70.9999	71.7447	71.3411	1.7472e-01	1.9000e+00
54	TSI000002	94.9726	96.0156	95.3650	2.5487e-01	1.9004e+00
55	TSO000001	70.1691	71.0248	70.6785	1.9273e-01	1.9000e+00
56	TSO000002	86.0209	86.8630	86.4130	2.1687e-01	1.9002e+00
57	TAF020136	116.1535	121.1048	117.9746	9.7108e-01	1.9015e+00
58	TAF120312	232.9391	238.3167	235.7600	1.3296e+00	1.9184e+00
59	TAF130312	259.4522	262.7899	261.0927	8.4167e-01	1.9244e+00
60	EMPTY	4.5020	4.5361	4.5188	7.7147e-03	0.0000e+00
61	EMPTY	4.4873	4.5068	4.4981	3.9815e-03	0.0000e+00
62	EMPTY	4.4727	4.4824	4.4774	3.1950e-03	0.0000e+00
63	EMPTY	4.4629	4.4727	4.4683	3.1583e-03	0.0000e+00
64	EMPTY	2.1094	2.1143	2.1097	1.1714e-03	0.0000e+00
65	EMPTY	2.1191	2.1240	2.1233	1.7115e-03	0.0000e+00
66	EMPTY	2.1240	2.1338	2.1289	9.8648e-04	0.0000e+00
67	EMPTY	2.1387	2.1436	2.1391	1.3381e-03	0.0000e+00
68	EMPTY	2.1387	2.1484	2.1437	1.3811e-03	0.0000e+00
69	EMPTY	2.1533	2.1533	2.1533	0.0000e+00	0.0000e+00
70	EMPTY	2.1533	2.1631	2.1589	1.9754e-03	0.0000e+00
71	EMPTY	2.1729	2.1875	2.1734	2.3428e-03	0.0000e+00
72	EMPTY	2.1777	2.1826	2.1786	1.8950e-03	0.0000e+00
73	EMPTY	2.1875	2.1924	2.1888	2.1635e-03	0.0000e+00
74	EMPTY	2.1924	2.1973	2.1965	1.8082e-03	0.0000e+00
75	EMPTY	2.2021	2.2070	2.2062	1.8082e-03	0.0000e+00
76	EMPTY	2.2070	2.2119	2.2117	9.6655e-04	0.0000e+00
77	EMPTY	2.2217	2.2266	2.2218	6.9053e-04	0.0000e+00
78	EMPTY	2.2363	2.2363	2.2363	0.0000e+00	0.0000e+00
79	EMPTY	2.2510	2.2510	2.2510	0.0000e+00	0.0000e+00
80	PAN020136	-15.9350	-12.5018	-14.6777	6.3445e-01	8.7077e-01
81	PAN050136	-27.0297	-21.8417	-24.8325	1.0921e+00	1.6811e+00
82	PAN070136	-25.4085	-20.4493	-22.7900	1.2639e+00	8.7186e-01
83	PAN080136	-14.0791	-11.6377	-13.5877	5.9481e-01	8.7066e-01
84	PAN090136	-13.2045	-13.0519	-13.1435	5.1121e-02	8.7062e-01
85	PAN100136	-12.1600	-12.0837	-12.1127	3.7408e-02	8.7053e-01
86	PAN105136	-6.7850	22.5882	5.6845	7.2177e+00	8.7012e-01
87	PAN110136	-7.4378	25.5975	5.4635	9.9963e+00	8.7011e-01
88	PAN115136	-7.6022	24.6702	4.3745	8.3577e+00	8.7007e-01
89	PAN120136	-6.1013	0.3074	-5.4924	1.3956e+00	8.7011e-01
90	PAN125136	-6.1116	14.5641	-4.1523	4.4846e+00	8.7006e-01
91	PAN130136	12.7566	35.1870	22.7404	5.1999e+00	8.7186e-01
92	PAN120048	-12.0279	17.8793	0.6475	6.6169e+00	8.7000e-01
93	PAN130048	-3.0223	24.2910	9.1039	6.8690e+00	8.7030e-01
94	PAN120224	-12.5501	31.6241	5.8535	1.2677e+01	8.7012e-01
95	PAN130224	-8.4846	2.3492	-2.6481	2.8357e+00	8.7003e-01
96	PAN120312	-12.4681	15.3792	-0.7356	8.1816e+00	8.7000e-01
97	PAN130312	-8.8558	22.4247	0.2613	6.5533e+00	8.7000e-01
98	PAB000136	40.3433	40.6180	40.4495	6.3699e-02	5.8875e-01
99	PAB100136	45.0407	45.8647	45.4252	1.6388e-01	5.9101e-01
100	PAB125136	45.4808	46.6252	45.9899	2.5084e-01	5.9129e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7696	40.8683	40.0992	1.6952e-01	7.5667e-01
102	PRV000001	19.6068	19.6068	19.6068	5.7801e-06	7.5160e-01
103	PSR000001	44.8777	44.9998	44.9094	5.4088e-02	7.5836e-01
104	PFM000001	2.0722	2.3469	2.2150	7.2017e-02	5.0003e-01
105	PAN000136	-142.8480	-117.2132	-133.2166	4.5711e+00	4.9313e+00
106	PFM000002	2.1656	2.2663	2.2169	1.9299e-02	2.0008e-01
107	EMPTY	-0.0049	0.0049	-0.0014	4.1899e-03	0.0000e+00
108	EMPTY	-7.6660	9.9951	-4.6451	4.2980e+00	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	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.8505	146.0224	145.2881	2.7212e-01	1.1900e+00
113	VPW000002	168.6862	169.4674	169.1158	1.5784e-01	1.2983e+00
114	VPW000003	-0.1427	0.4432	0.1151	1.0763e-01	8.1000e-01
115	VPW000004	148.7342	149.5155	149.1991	2.0462e-01	1.2073e+00
116	VPW000005	197.7502	198.7267	198.1798	2.3675e-01	1.4388e+00
117	VPW000006	-0.0864	0.3042	0.1675	1.1334e-01	8.1000e-01
118	IPW000001	790.7367	796.5938	793.3527	1.7907e+00	1.0242e+01
119	IPW000002	1790.7399	1800.4962	1795.5001	2.1288e+00	1.6334e+01
120	IPW000003	-18.7125	-14.8125	-17.5425	1.1819e+00	8.1012e+00
121	IPW000004	537.2971	541.2034	538.8887	1.0195e+00	4.7036e+00
122	IPW000005	352.9075	354.8605	353.8839	5.5798e-01	3.4374e+00
123	IPW000006	-0.3662	0.6104	-0.2099	2.5034e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0196	3.4863e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0151	2.8334e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0161	3.5908e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.9508e-03	0.0000e+00
128	IHT000001	-1.5738	-0.4019	-0.8941	2.3424e-01	4.1000e+00
129	IHT000002	-1.4048	-0.2329	-0.8071	2.6296e-01	4.1000e+00
130	IHT000003	-1.4536	-0.2817	-0.8715	2.6614e-01	4.1000e+00
131	IHT000004	-1.3747	-0.2028	-0.8044	2.5827e-01	4.1000e+00
132	IHT000005	-1.3784	-0.2066	-0.8433	2.6707e-01	4.1000e+00
133	IHT000006	-1.6226	-0.4507	-1.0914	2.7063e-01	4.1000e+00
134	IHT000007	-1.4273	-0.2554	-0.7905	2.8402e-01	4.1000e+00
135	IHT000008	-1.5249	-0.1578	-0.8257	2.7078e-01	4.1000e+00
136	IHT000009	-1.5888	-0.0263	-0.8505	2.8805e-01	4.1000e+00
137	IHT000010	-0.7287	0.6385	-0.1427	3.0565e-01	4.1000e+00
138	IHT000011	-0.3042	1.0630	0.1762	3.3531e-01	4.1000e+00
139	IHT000012	-0.7512	0.8113	-0.1106	3.2787e-01	4.1000e+00
140	IHT000013	129.4358	131.7796	130.4554	4.7889e-01	4.3025e+00
141	IHT000014	179.2969	181.6406	180.1875	5.0093e-01	4.4785e+00
142	IHT000015	134.3262	136.4746	135.1816	4.5998e-01	4.3171e+00
143	IHT000016	125.4507	127.5992	126.2046	4.6523e-01	4.2898e+00
144	IHT000017	148.2798	150.4282	149.4009	4.8458e-01	4.3637e+00
145	IHT000018	150.9991	153.7335	152.1553	5.0198e-01	4.3732e+00
146	IHT000019	146.1351	148.4788	147.1976	4.7377e-01	4.3562e+00
147	IHT000020	150.7249	152.8733	151.8539	4.6903e-01	4.3722e+00
148	IHT000021	-1.8292	0.7099	-0.4737	5.8315e-01	4.1000e+00
149	IHT000022	131.0584	133.0116	132.0585	4.6629e-01	4.3074e+00
150	IHT000023	147.6262	149.9700	149.0714	4.6354e-01	4.3626e+00
151	IHT000024	112.6089	114.9527	113.8472	4.8905e-01	4.2551e+00
152	IHT000025	147.0778	149.2263	148.2340	4.9417e-01	4.3597e+00
153	IHT000026	148.4638	150.6122	149.6396	4.5930e-01	4.3645e+00
154	IHT000027	127.7006	129.6537	128.5170	4.6133e-01	4.2967e+00
155	IHT000028	129.0490	132.1740	130.3849	6.1303e-01	4.3023e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	147.7689	150.5033	148.7338	5.7644e-01	4.3614e+00
157	IHT000030	150.7662	153.5006	151.7466	6.2076e-01	4.3718e+00
158	IHT000031	148.6816	151.6113	149.8262	5.9058e-01	4.3652e+00
159	IHT000032	150.4883	153.4180	151.5742	5.9078e-01	4.3712e+00
160	IHT000033	150.2930	153.4180	151.5117	6.0690e-01	4.3710e+00
161	IHT000034	132.1890	134.9234	133.3179	5.4432e-01	4.3113e+00
162	IHT000035	173.8957	176.6301	175.0441	5.1545e-01	4.4580e+00
163	IHT000036	130.4763	133.2106	131.6598	4.9507e-01	4.3062e+00

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Velocity 1 = 3.8608 (ft/sec) (+/- 11.4560 %)
Velocity 2 = 3.8605 (ft/sec) (+/- 4.4098 %)
Pressure drop = -4.7546 (psi)
Tsats in = 268.0690 (deg F) Tsats out = 275.5199 (deg F)
Phi inner = -0.0005 (kBtu/hr-ft2) (+/- 800.4678 %)
Phi outer = 200.0002 (kBtu/hr-ft2) (+/- 1.3401 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	85.1635	85.7979	85.5018	1.8622e-01	1.9002e+00
1	TRF0000002	85.5835	86.0041	85.7517	1.4091e-01	1.9002e+00
2	TFM0000001	87.9210	88.7610	88.2946	1.7622e-01	1.9002e+00
3	TIN0000001	87.4791	88.0055	87.7486	1.3644e-01	1.9002e+00
4	TRV0000001	88.1948	89.0339	88.7312	2.1437e-01	1.9002e+00
5	TSR0000001	128.0232	130.4526	129.0613	6.7595e-01	1.9023e+00
6	TAO020136	52.4847	58.8567	56.6871	1.2911e+00	1.9001e+00
7	TAO050136	245.4526	247.6879	246.8773	4.5356e-01	1.9210e+00
8	TAO070136	245.7024	252.0939	248.9081	1.3226e+00	1.9214e+00
9	TAO080136	278.4238	279.6141	279.1376	2.5673e-01	1.9292e+00
10	TAO090136	283.1874	285.3828	284.2057	5.0494e-01	1.9307e+00
11	TAO100136	275.2057	278.0547	276.4746	7.0083e-01	1.9285e+00
12	TAO105136	280.7350	282.9410	281.7466	5.4108e-01	1.9300e+00
13	TAO110136	285.0149	286.3799	285.5396	3.1087e-01	1.9310e+00
14	TAO115136	284.6135	286.9044	285.5524	5.4671e-01	1.9310e+00
15	TAO120136	291.2982	292.6671	292.0067	3.4483e-01	1.9329e+00
16	TAO125136	218.1046	220.6716	219.3179	5.2738e-01	1.9150e+00
17	TAO130136	287.1362	289.8407	288.3362	4.9897e-01	1.9318e+00
18	TAO120048	107.4732	108.7138	107.9821	2.8060e-01	1.9010e+00
19	TAO130048	287.8171	289.2739	288.6581	3.1623e-01	1.9319e+00
20	TAO120224	290.7548	292.9444	291.6420	4.3001e-01	1.9328e+00
21	TAO130224	278.4815	280.9378	279.3561	5.3166e-01	1.9293e+00
22	TAO120312	289.8569	291.9601	291.2067	4.2183e-01	1.9327e+00
23	TAO130312	289.6482	291.3805	290.3923	3.9630e-01	1.9324e+00
24	TRT020000	261.2223	263.1767	262.1122	5.2156e-01	1.9247e+00
25	TRT070000	277.0658	278.4554	277.6852	3.6186e-01	1.9288e+00
26	TRT100000	289.5684	290.6634	290.0500	2.5719e-01	1.9323e+00
27	TRT120000	289.0192	290.4799	289.5959	3.1650e-01	1.9322e+00
28	TRT125000	319.5928	456.4185	451.9460	2.1901e+01	1.9959e+00
29	TRT130000	289.0024	291.1899	290.2197	4.2419e-01	1.9324e+00
30	EMPTY	39.3761	40.2940	39.8168	2.2639e-01	1.9011e+00
31	TAF050136	160.8006	166.4255	163.8976	1.1074e+00	1.9059e+00
32	TAF070136	178.8391	183.4119	181.1649	1.0835e+00	1.9083e+00
33	TAF080136	266.0078	267.9392	266.8504	4.1019e-01	1.9259e+00
34	TAF090136	90.9867	92.2428	91.6271	3.0172e-01	1.9003e+00
35	TAF100136	206.3555	213.3707	209.6301	1.6193e+00	1.9131e+00
36	TAF105136	215.0115	219.4611	217.1902	1.0562e+00	1.9145e+00
37	TAF110136	221.6506	226.3834	223.6590	1.0898e+00	1.9158e+00
38	TAF115136	227.6549	233.1285	230.3792	1.3711e+00	1.9172e+00
39	TAF120136	268.5663	272.1524	269.9760	6.5792e-01	1.9268e+00
40	TAF125136	239.2586	245.5945	242.3213	1.5021e+00	1.9199e+00
41	TAF130136	242.3081	247.0819	245.2038	1.0975e+00	1.9206e+00
42	TAF120048	235.1576	241.3180	238.0711	1.5054e+00	1.9189e+00
43	TAF130048	245.3057	249.8862	248.1073	1.0150e+00	1.9213e+00
44	TAF120224	226.9676	232.1680	229.4659	1.2281e+00	1.9171e+00
45	TAF130224	232.7437	238.7175	234.9948	1.3450e+00	1.9183e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.0894	2.2756e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9775	1.4579e-01	1.9011e+00
48	TAI130048	232.8211	236.6912	235.0458	9.9971e-01	1.9183e+00
49	TAI130136	232.1281	234.3893	233.3299	5.0081e-01	1.9179e+00
50	TAI130224	225.5187	228.2760	226.7398	5.7836e-01	1.9165e+00
51	TAI130312	222.2307	224.3246	223.2819	4.9673e-01	1.9158e+00
52	TRR130000	188.7930	190.1517	189.5613	3.0427e-01	1.9096e+00
53	TSI000001	71.0005	71.8516	71.4469	1.8873e-01	1.9000e+00
54	TSI000002	94.9726	96.3275	95.6021	2.9905e-01	1.9004e+00
55	TSO000001	70.3832	71.3463	70.8115	2.4633e-01	1.9000e+00
56	TSO000002	86.0214	87.0737	86.5306	2.4641e-01	1.9002e+00
57	TAF020136	115.8435	120.5905	118.2269	9.2849e-01	1.9016e+00
58	TAF120312	232.8441	239.5417	236.4956	1.3497e+00	1.9186e+00
59	TAF130312	259.6386	263.4393	261.6003	9.9645e-01	1.9246e+00
60	EMPTY	4.5117	4.5557	4.5342	1.0625e-02	0.0000e+00
61	EMPTY	4.5020	4.5264	4.5131	6.6935e-03	0.0000e+00
62	EMPTY	4.4873	4.5020	4.4931	4.6990e-03	0.0000e+00
63	EMPTY	4.4727	4.4922	4.4826	4.2954e-03	0.0000e+00
64	EMPTY	2.1143	2.1240	2.1169	2.6488e-03	0.0000e+00
65	EMPTY	2.1240	2.1338	2.1293	1.6624e-03	0.0000e+00
66	EMPTY	2.1338	2.1387	2.1354	2.3008e-03	0.0000e+00
67	EMPTY	2.1436	2.1484	2.1456	2.4344e-03	0.0000e+00
68	EMPTY	2.1484	2.1533	2.1497	2.1635e-03	0.0000e+00
69	EMPTY	2.1582	2.1631	2.1591	1.8950e-03	0.0000e+00
70	EMPTY	2.1631	2.1680	2.1654	2.4642e-03	0.0000e+00
71	EMPTY	2.1777	2.1826	2.1794	2.3365e-03	0.0000e+00
72	EMPTY	2.1826	2.1875	2.1842	2.3008e-03	0.0000e+00
73	EMPTY	2.1924	2.1973	2.1948	2.4662e-03	0.0000e+00
74	EMPTY	2.1973	2.2021	2.2019	1.1714e-03	0.0000e+00
75	EMPTY	2.2070	2.2119	2.2110	1.8950e-03	0.0000e+00
76	EMPTY	2.2119	2.2217	2.2167	1.2041e-03	0.0000e+00
77	EMPTY	2.2266	2.2314	2.2270	1.3381e-03	0.0000e+00
78	EMPTY	2.2363	2.2412	2.2411	6.9053e-04	0.0000e+00
79	EMPTY	2.2510	2.2607	2.2561	1.3811e-03	0.0000e+00
80	PAN020136	-17.1557	-1.4392	-14.0307	3.0487e+00	8.7071e-01
81	PAN050136	-26.5720	-23.2150	-24.7470	7.7680e-01	1.6811e+00
82	PAN070136	-25.9425	-20.9834	-24.2518	1.1219e+00	8.7211e-01
83	PAN080136	-14.0791	-10.7984	-13.7068	5.9210e-01	8.7067e-01
84	PAN090136	-13.2045	-13.0519	-13.1541	5.0207e-02	8.7062e-01
85	PAN100136	-12.2363	-4.6832	-11.8578	1.2518e+00	8.7050e-01
86	PAN105136	-4.9540	26.9369	13.0682	7.6219e+00	8.7061e-01
87	PAN110136	-7.4378	17.2051	2.0089	7.6849e+00	8.7001e-01
88	PAN115136	-6.3052	20.0163	5.5219	6.8429e+00	8.7011e-01
89	PAN120136	-6.1013	-2.6680	-5.7915	7.3072e-01	8.7012e-01
90	PAN125136	-6.0353	24.9401	-3.7129	5.6063e+00	8.7005e-01
91	PAN130136	5.8138	31.3723	17.7309	4.2924e+00	8.7113e-01
92	PAN120048	-3.1015	24.3643	12.3877	6.9672e+00	8.7055e-01
93	PAN130048	-4.3193	22.9940	7.7016	6.7503e+00	8.7021e-01
94	PAN120224	-12.5501	32.9211	5.7742	1.3209e+01	8.7012e-01
95	PAN130224	-8.4083	1.3573	-3.1928	2.4982e+00	8.7004e-01
96	PAN120312	-12.4681	23.6952	-1.6481	9.7154e+00	8.7001e-01
97	PAN130312	-10.3054	18.8389	1.0959	6.5307e+00	8.7000e-01
98	PAB000136	40.2975	41.0300	40.4724	1.3296e-01	5.8876e-01
99	PAB100136	45.4069	45.9104	45.6761	1.2668e-01	5.9113e-01
100	PAB125136	44.9773	46.3506	45.8022	2.4772e-01	5.9119e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.8917	40.8683	40.2140	1.7913e-01	7.5671e-01
102	PRV0000001	19.4847	19.6068	19.5043	4.5206e-02	7.5158e-01
103	PCR0000001	44.7556	45.1218	44.9143	7.0836e-02	7.5836e-01
104	PFM0000001	2.0722	2.3469	2.2059	6.1929e-02	5.0003e-01
105	PAN000136	-140.1014	-112.1778	-131.6328	4.5224e+00	4.9310e+00
106	PFM0000002	2.1656	2.2327	2.2055	1.8221e-02	2.0008e-01
107	EMPTY	-0.0049	0.0049	0.0019	3.8066e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-3.9891	5.3417e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0004	2.9330e-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	VPW0000001	145.0458	145.8271	145.4365	1.9331e-01	1.1906e+00
113	VPW0000002	169.0768	169.4674	169.2056	1.1578e-01	1.2988e+00
114	VPW0000003	-0.1427	0.2479	0.0956	9.8963e-02	8.1000e-01
115	VPW0000004	148.7342	149.7108	149.2069	1.7241e-01	1.2073e+00
116	VPW0000005	197.7502	198.5314	198.2579	1.5282e-01	1.4391e+00
117	VPW0000006	0.1089	0.4995	0.2105	1.0617e-01	8.1000e-01
118	IPW0000001	779.0226	786.8320	782.7319	1.6850e+00	1.0191e+01
119	IPW0000002	1800.4962	1814.1552	1806.1943	2.5802e+00	1.6408e+01
120	IPW0000003	-14.8125	-8.9625	-11.5365	1.2729e+00	8.1005e+00
121	IPW0000004	532.4143	535.3440	533.6055	6.8459e-01	4.6659e+00
122	IPW0000005	352.4193	353.8840	353.1223	4.0861e-01	3.4325e+00
123	IPW0000006	-1.3427	-0.3662	-0.7763	3.4681e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0177	4.2875e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.5362e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0127	3.6911e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0142	3.1583e-03	0.0000e+00
128	IHT0000001	-1.3784	-0.2066	-0.7183	2.6730e-01	4.1000e+00
129	IHT0000002	-1.4048	-0.2329	-0.6704	2.6340e-01	4.1000e+00
130	IHT0000003	-1.4536	-0.2817	-0.7075	2.5782e-01	4.1000e+00
131	IHT0000004	-1.1794	-0.2028	-0.6208	2.0124e-01	4.1000e+00
132	IHT0000005	-1.3784	-0.2066	-0.6831	2.2027e-01	4.1000e+00
133	IHT0000006	-1.6226	-0.2554	-0.8804	2.3675e-01	4.1000e+00
134	IHT0000007	-1.2320	-0.0601	-0.6109	2.4544e-01	4.1000e+00
135	IHT0000008	-1.3296	-0.3531	-0.6578	2.2377e-01	4.1000e+00
136	IHT0000009	-1.5888	-0.2216	-0.6786	2.5146e-01	4.1000e+00
137	IHT0000010	-0.7287	0.8338	0.0682	4.2101e-01	4.1000e+00
138	IHT0000011	-0.3042	1.2583	0.3989	4.2499e-01	4.1000e+00
139	IHT0000012	-0.5559	1.2019	0.0808	4.0781e-01	4.1000e+00
140	IHT0000013	129.8265	131.5843	130.5960	4.5405e-01	4.3030e+00
141	IHT0000014	179.4922	181.6406	180.3203	4.4039e-01	4.4790e+00
142	IHT0000015	134.5215	136.4746	135.3183	4.3555e-01	4.3175e+00
143	IHT0000016	125.4507	127.7945	126.4429	4.3376e-01	4.2905e+00
144	IHT0000017	149.4516	151.7954	150.4634	5.4489e-01	4.3674e+00
145	IHT0000018	151.1944	153.7335	152.4795	4.5522e-01	4.3744e+00
146	IHT0000019	145.9397	148.2835	147.0297	4.9613e-01	4.3557e+00
147	IHT0000020	150.5296	152.8733	151.7054	4.8886e-01	4.3717e+00
148	IHT0000021	-2.0245	0.1240	-0.7628	4.9632e-01	4.1000e+00
149	IHT0000022	131.0584	133.0116	131.9257	4.1603e-01	4.3070e+00
150	IHT0000023	148.0168	149.7746	148.7511	3.9372e-01	4.3615e+00
151	IHT0000024	112.8043	114.9527	113.6831	4.5378e-01	4.2547e+00
152	IHT0000025	147.2731	149.2263	148.1285	4.6837e-01	4.3594e+00
153	IHT0000026	148.6591	150.8075	149.5888	5.0000e-01	4.3644e+00
154	IHT0000027	127.7006	129.4584	128.4975	4.5990e-01	4.2966e+00
155	IHT0000028	129.2443	132.1740	130.6857	6.3612e-01	4.3032e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	147.7689	150.3080	149.0424	5.7621e-01	4.3625e+00
157	IHT000030	150.9615	153.6959	152.0826	6.1865e-01	4.3730e+00
158	IHT000031	148.8770	151.6113	150.1152	5.9662e-01	4.3662e+00
159	IHT000032	150.6836	153.6133	151.9258	6.2485e-01	4.3724e+00
160	IHT000033	150.4883	153.4180	151.8203	6.2476e-01	4.3721e+00
161	IHT000034	132.3843	134.7281	133.4859	4.8770e-01	4.3118e+00
162	IHT000035	174.2863	176.0442	175.2120	4.9569e-01	4.4587e+00
163	IHT000036	130.6716	132.6247	131.7458	4.9951e-01	4.3065e+00

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Velocity 1 = 0.007800 (ft/sec)

Velocity 2 = 0.009700 (ft/sec)

Pressure Drop = 0.057200 (psi)

Tsat in = 0.033813 (deg F) Tsat out = 0.248993 (deg F)

Phi inner = 0.000400 (kBtu/hr-ft2) Phi outer = 0.127701 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0466	0.0545
1	TRF000002	0.0884	0.1030
2	TFM000001	0.1800	0.2043
3	TIN000001	0.1599	0.1826
4	TRV000001	0.3005	0.3398
5	TSR000001	2.4175	1.9089
6	TAO020136	0.3798	0.6655
7	TAO050136	0.5060	0.2054
8	TAO070136	0.3572	0.1437
9	TAO080136	0.4491	0.1611
10	TAO090136	0.9291	0.3280
11	TAO100136	0.2796	0.1010
12	TAO105136	0.0773	0.0274
13	TAO110136	0.1047	0.0367
14	TAO115136	0.5829	0.2045
15	TAO120136	0.2079	0.0713
16	TAO125136	1.8200	0.8368
17	TAO130136	0.2370	0.0823
18	TAO120048	3.9330	3.7799
19	TAO130048	0.4295	0.1490
20	TAO120224	0.1787	0.0613
21	TAO130224	0.1304	0.0467
22	TAO120312	0.2852	0.0980
23	TAO130312	0.0690	0.0238
24	TRT020000	0.5437	0.2079
25	TRT070000	0.2299	0.0829
26	TRT100000	0.3458	0.1194
27	TRT120000	0.2554	0.0883
28	TRT125000	26.0601	6.1190
29	TRT130000	0.1455	0.0502
30	EMPTY	0.0000	0.0000
31	TAF050136	0.3350	0.2048
32	TAF070136	0.3964	0.2193
33	TAF080136	0.1242	0.0466
34	TAF090136	2.2516	2.5193
35	TAF100136	1.0419	0.4946
36	TAF105136	0.6507	0.3005
37	TAF110136	0.7571	0.3397
38	TAF115136	1.3064	0.5703
39	TAF120136	0.3711	0.1377
40	TAF125136	1.0357	0.4292
41	TAF130136	0.5873	0.2401
42	TAF120048	1.2858	0.5430
43	TAF130048	0.8524	0.3447
44	TAF120224	0.3370	0.1471
45	TAF130224	0.6188	0.2640

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#	Name	Abs Diff	%Diff
46	EMPTY	0.0322	0.0845
47	EMPTY	0.0230	0.0576
48	TAI130048	0.8230	0.3514
49	TAI130136	0.3237	0.1389
50	TAI130224	0.4640	0.2051
51	TAI130312	0.6435	0.2890
52	TRR130000	0.1859	0.0982
53	TSI000001	0.1058	0.1483
54	TSI000002	0.2371	0.2486
55	TSO000001	0.1330	0.1882
56	TSO000002	0.1176	0.1361
57	TAF020136	0.2523	0.2139
58	TAF120312	0.7356	0.3120
59	TAF130312	0.5076	0.1944
60	EMPTY	0.0154	0.3408
61	EMPTY	0.0150	0.3335
62	EMPTY	0.0157	0.3507
63	EMPTY	0.0143	0.3200
64	EMPTY	0.0072	0.3413
65	EMPTY	0.0060	0.2826
66	EMPTY	0.0065	0.3053
67	EMPTY	0.0065	0.3039
68	EMPTY	0.0060	0.2799
69	EMPTY	0.0058	0.2694
70	EMPTY	0.0065	0.3011
71	EMPTY	0.0060	0.2761
72	EMPTY	0.0056	0.2570
73	EMPTY	0.0060	0.2741
74	EMPTY	0.0054	0.2458
75	EMPTY	0.0048	0.2176
76	EMPTY	0.0050	0.2261
77	EMPTY	0.0052	0.2340
78	EMPTY	0.0048	0.2146
79	EMPTY	0.0051	0.2266
80	PAN020136	0.6470	4.4080
81	PAN050136	0.0855	0.3443
82	PAN070136	1.4618	6.4142
83	PAN080136	0.1191	0.8765
84	PAN090136	0.0106	0.0806
85	PAN100136	0.2549	2.1044
86	PAN105136	7.3837	129.8918
87	PAN110136	3.4546	63.2305
88	PAN115136	1.1474	26.2293
89	PAN120136	0.2991	5.4457
90	PAN125136	0.4394	10.5821
91	PAN130136	5.0095	22.0291
92	PAN120048	11.7402	1813.1584
93	PAN130048	1.4023	15.4033
94	PAN120224	0.0793	1.3547
95	PAN130224	0.5447	20.5695
96	PAN120312	0.9125	124.0484
97	PAN130312	0.8346	319.4030
98	PAB000136	0.0229	0.0566
99	PAB100136	0.2509	0.5523
100	PAB125136	0.1877	0.4081

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1148	0.2863
102	PRV000001	0.1025	0.5228
103	PSR000001	0.0049	0.0109
104	PFM000001	0.0091	0.4108
105	PAN000136	1.5838	1.1889
106	PFM000002	0.0114	0.5142
107	EMPTY	0.0033	235.7143
108	EMPTY	0.6560	14.1224
109	EMPTY	0.0005	500.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.1484	0.1021
113	VPW000002	0.0898	0.0531
114	VPW000003	0.0195	16.9418
115	VPW000004	0.0078	0.0052
116	VPW000005	0.0781	0.0394
117	VPW000006	0.0430	25.6716
118	IPW000001	10.6208	1.3387
119	IPW000002	10.6942	0.5956
120	IPW000003	6.0060	34.2369
121	IPW000004	5.2831	0.9804
122	IPW000005	0.7616	0.2152
123	IPW000006	0.5664	269.8428
124	EMPTY	0.0019	9.6939
125	EMPTY	0.0021	13.9073
126	EMPTY	0.0034	21.1180
127	EMPTY	0.0018	11.2500
128	IHT000001	0.1758	19.6622
129	IHT000002	0.1367	16.9372
130	IHT000003	0.1640	18.8181
131	IHT000004	0.1836	22.8245
132	IHT000005	0.1602	18.9968
133	IHT000006	0.2110	19.3330
134	IHT000007	0.1796	22.7198
135	IHT000008	0.1679	20.3343
136	IHT000009	0.1719	20.2116
137	IHT000010	0.2109	147.7926
138	IHT000011	0.2227	126.3905
139	IHT000012	0.1914	173.0560
140	IHT000013	0.1406	0.1078
141	IHT000014	0.1328	0.0737
142	IHT000015	0.1367	0.1011
143	IHT000016	0.2383	0.1888
144	IHT000017	1.0625	0.7112
145	IHT000018	0.3242	0.2131
146	IHT000019	0.1679	0.1141
147	IHT000020	0.1485	0.0978
148	IHT000021	0.2891	61.0302
149	IHT000022	0.1328	0.1006
150	IHT000023	0.3203	0.2149
151	IHT000024	0.1641	0.1441
152	IHT000025	0.1055	0.0712
153	IHT000026	0.0508	0.0339
154	IHT000027	0.0195	0.0152
155	IHT000028	0.3008	0.2307

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#	Name	Abs Diff	%Diff
156	IHT000029	0.3086	0.2075
157	IHT000030	0.3360	0.2214
158	IHT000031	0.2890	0.1929
159	IHT000032	0.3516	0.2320
160	IHT000033	0.3086	0.2037
161	IHT000034	0.1680	0.1260
162	IHT000035	0.1679	0.0959
163	IHT000036	0.0860	0.0653

Velocity 1 = 25.9530 (ft/sec) (+/- 1.6889 %)
 Velocity 2 = 13.4138 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 21.6782 (psi)
 Tsat in = 272.7809 (deg F) Tsat out = 233.6247 (deg F)
 Phi inner = 0.0047 (kBtu/hr-ft2) (+/- 127.7214 %)
 Phi outer = 0.0077 (kBtu/hr-ft2) (+/- 121.6563 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.8399	73.4806	73.1902	1.8183e-01	1.9000e+00
1	TRF000002	73.1115	73.5362	73.4088	1.2870e-01	1.9000e+00
2	TFM000001	85.7628	86.6039	86.1706	2.2429e-01	1.9002e+00
3	TIN000001	85.6903	86.2179	86.0153	1.3936e-01	1.9002e+00
4	TRV000001	85.6518	86.5963	86.1142	2.0653e-01	1.9002e+00
5	TSR000001	85.6964	86.3279	85.9369	1.3612e-01	1.9002e+00
6	TAO020136	78.3850	79.4453	78.9874	2.4646e-01	1.9001e+00
7	TAO050136	86.0744	86.8104	86.4115	1.6140e-01	1.9002e+00
8	TAO070136	86.0320	86.7705	86.3865	1.9965e-01	1.9002e+00
9	TAO080136	85.8770	86.6130	86.2517	1.6576e-01	1.9002e+00
10	TAO090136	86.0647	86.8013	86.4102	1.8129e-01	1.9002e+00
11	TAO100136	85.8750	86.6119	86.3087	1.6681e-01	1.9002e+00
12	TAO105136	86.3726	87.3205	86.8529	2.1601e-01	1.9002e+00
13	TAO110136	86.2972	87.0324	86.6550	1.5994e-01	1.9002e+00
14	TAO115136	85.8938	86.9469	86.5635	2.3273e-01	1.9002e+00
15	TAO120136	86.0112	86.7483	86.4198	1.6951e-01	1.9002e+00
16	TAO125136	86.1269	86.9681	86.5979	1.8655e-01	1.9002e+00
17	TAO130136	85.8258	86.5601	86.2332	1.7104e-01	1.9002e+00
18	TAO120048	74.2830	75.4508	74.8689	3.3234e-01	1.9000e+00
19	TAO130048	85.8196	86.4505	86.1107	1.5256e-01	1.9002e+00
20	TAO120224	85.7298	86.4671	86.1091	1.6196e-01	1.9002e+00
21	TAO130224	85.6802	86.6214	86.2023	2.1842e-01	1.9002e+00
22	TAO120312	85.5054	86.4538	86.0575	1.8007e-01	1.9002e+00
23	TAO130312	85.6414	86.3783	86.0457	1.5225e-01	1.9002e+00
24	TRT020000	86.0524	86.8962	86.5123	2.0184e-01	1.9002e+00
25	TRT070000	86.0258	86.7653	86.4188	1.6398e-01	1.9002e+00
26	TRT100000	86.3384	87.0737	86.6702	1.6749e-01	1.9002e+00
27	TRT120000	86.1002	86.7321	86.4709	1.3149e-01	1.9002e+00
28	TRT125000	87.6157	102.2428	94.1363	3.3296e+00	1.9004e+00
29	TRT130000	85.7435	86.5850	86.1644	1.6323e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.5230	2.2127e-01	1.9011e+00
31	TAF050136	86.2082	86.7352	86.5034	1.4998e-01	1.9002e+00
32	TAF070136	79.7980	80.6421	80.3468	2.1895e-01	1.9001e+00
33	TAF080136	85.9481	86.7871	86.4144	1.7611e-01	1.9002e+00
34	TAF090136	73.6334	74.5890	74.1979	2.6641e-01	1.9000e+00
35	TAF100136	85.7872	86.7357	86.3732	1.6374e-01	1.9002e+00
36	TAF105136	85.9172	86.8588	86.3896	2.4552e-01	1.9002e+00
37	TAF110136	85.9025	86.5338	86.2225	1.3081e-01	1.9002e+00
38	TAF115136	86.3452	87.1862	86.7323	1.9027e-01	1.9002e+00
39	TAF120136	86.0794	86.6065	86.4081	1.2149e-01	1.9002e+00
40	TAF125136	86.1355	87.3881	86.6454	2.6399e-01	1.9002e+00
41	TAF130136	86.0796	86.6067	86.3832	1.3222e-01	1.9002e+00
42	TAF120048	86.3109	87.1567	86.7758	1.8975e-01	1.9002e+00
43	TAF130048	85.9972	86.6291	86.3300	1.4932e-01	1.9002e+00
44	TAF120224	85.8907	86.9413	86.4712	2.0160e-01	1.9002e+00
45	TAF130224	85.5553	86.1886	85.9776	1.2244e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0848	2.1732e-01	1.9010e+00
47	EMPTY	39.1464	39.1464	39.1465	1.5414e-05	1.9010e+00
48	TAI130048	86.0531	87.1054	86.6214	2.8565e-01	1.9002e+00
49	TAI130136	85.4206	86.2618	85.9464	1.7622e-01	1.9002e+00
50	TAI130224	86.5243	87.6836	87.1233	3.0802e-01	1.9002e+00
51	TAI130312	85.8274	86.7756	86.3710	2.0562e-01	1.9002e+00
52	TRR130000	84.6105	85.4497	85.0313	2.2536e-01	1.9002e+00
53	TSI000001	77.8066	78.3372	78.0321	1.4753e-01	1.9000e+00
54	TSI000002	74.1044	75.1641	74.6432	2.7797e-01	1.9000e+00
55	TSO000001	72.3392	73.1929	72.7913	1.8107e-01	1.9000e+00
56	TSO000002	80.7627	81.3976	81.0675	1.8449e-01	1.9001e+00
57	TAF020136	85.5904	86.2252	85.7941	1.4307e-01	1.9002e+00
58	TAF120312	85.5615	86.6137	86.1509	2.7685e-01	1.9002e+00
59	TAF130312	85.4075	86.0396	85.7616	1.6700e-01	1.9002e+00
60	EMPTY	0.4883	0.4932	0.4888	1.4797e-03	0.0000e+00
61	EMPTY	0.5029	0.5078	0.5031	9.6655e-04	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5168	1.8082e-03	0.0000e+00
63	EMPTY	0.5273	0.5371	0.5322	1.3951e-03	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3435	2.3365e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3659	1.1714e-03	0.0000e+00
66	EMPTY	0.3809	0.3857	0.3810	6.9053e-04	0.0000e+00
67	EMPTY	0.3955	0.4102	0.4004	1.7086e-03	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4148	9.6655e-04	0.0000e+00
69	EMPTY	0.4248	0.4395	0.4326	2.7902e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4485	1.7115e-03	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4718	2.3941e-03	0.0000e+00
72	EMPTY	0.4785	0.4883	0.4844	2.4164e-03	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5043	2.2146e-03	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5222	1.1714e-03	0.0000e+00
75	EMPTY	0.5371	0.5469	0.5381	2.2058e-03	0.0000e+00
76	EMPTY	0.5518	0.5566	0.5522	1.4797e-03	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5720	1.7115e-03	0.0000e+00
78	EMPTY	0.5957	0.6055	0.5959	1.3811e-03	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6156	1.3381e-03	0.0000e+00
80	PAN020136	79.3546	80.4990	79.9772	2.2567e-01	8.9268e-01
81	PAN050136	149.2741	151.4103	150.3025	4.5809e-01	1.7215e+00
82	PAN070136	83.2253	84.4460	83.7990	2.5525e-01	8.9487e-01
83	PAN080136	40.1366	40.9758	40.5471	1.5861e-01	8.7589e-01
84	PAN090136	37.1787	38.0180	37.7067	1.5555e-01	8.7509e-01
85	PAN100136	45.7926	46.5556	46.1207	1.6403e-01	8.7761e-01
86	PAN105136	24.3415	24.8755	24.5856	1.1327e-01	8.7217e-01
87	PAN110136	31.0774	31.6878	31.3765	1.2121e-01	8.7353e-01
88	PAN115136	33.5628	34.1731	33.8542	1.1808e-01	8.7411e-01
89	PAN120136	37.5022	38.1126	37.7967	1.3614e-01	8.7512e-01
90	PAN125136	22.8068	23.3409	23.0250	1.0225e-01	8.7190e-01
91	PAN130136	11.2440	11.5491	11.3904	9.2276e-02	8.7047e-01
92	PAN120048	28.6353	29.2457	28.9191	1.4380e-01	8.7300e-01
93	PAN130048	57.8545	58.6937	58.2695	1.9262e-01	8.8211e-01
94	PAN120224	61.4109	62.1738	61.7221	1.8931e-01	8.8358e-01
95	PAN130224	44.4018	45.0885	44.7345	1.5004e-01	8.7716e-01
96	PAN120312	31.5932	32.2799	31.9381	1.5355e-01	8.7366e-01
97	PAN130312	53.7932	54.6324	54.3044	1.7181e-01	8.8053e-01
98	PAB000136	43.5240	44.0275	43.7785	9.5288e-02	5.9024e-01
99	PAB100136	27.6422	27.8711	27.7576	5.5674e-02	5.8414e-01
100	PAB125136	22.2353	22.4184	22.3022	4.0534e-02	5.8267e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	43.2546	44.2312	43.6843	1.9766e-01	7.5791e-01
102	PRV000001	18.7420	18.9861	18.8641	2.4662e-02	7.5148e-01
103	PSR000001	19.6691	19.9132	19.7765	4.7052e-02	7.5163e-01
104	PFM000001	102.6236	104.9124	103.9053	5.5397e-01	5.6345e-01
105	PAN000136	600.1725	600.1725	600.1723	2.4662e-04	5.1437e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0146	0.0099	1.2041e-03	0.0000e+00
108	EMPTY	-10.0000	2.5732	-5.8168	3.7430e+00	0.0000e+00
109	EMPTY	0.0049	0.0195	0.0070	2.9856e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0044	1.4797e-03	0.0000e+00
112	VPW000001	-1.0479	-0.6573	-0.8253	1.0447e-01	8.1002e-01
113	VPW000002	-1.0404	-0.6498	-0.7670	1.0440e-01	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6857	1.2027e-01	8.1001e-01
115	VPW000004	-0.8752	-0.2892	-0.6134	1.4012e-01	8.1001e-01
116	VPW000005	-1.4686	-1.2733	-1.3631	9.8332e-02	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4888	1.0206e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.7242	1.2473e+00	8.1004e+00
119	IPW000002	-12.2331	-6.3793	-10.0477	1.4559e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-11.1075	1.2613e+00	8.1005e+00
121	IPW000004	-2.7419	-1.7654	-2.0486	2.8058e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5900	3.0705e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2900	3.4751e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0098	-0.0201	3.6433e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0129	3.0819e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0171	2.6562e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	2.9594e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0308	7.1136e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0337	7.3716e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0473	7.8918e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0348	9.6735e-02	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0659	1.0470e-01	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0297	1.0595e-01	4.1000e+00
134	IHT000007	-0.0601	0.1352	-0.0366	6.4113e-02	4.1000e+00
135	IHT000008	-0.3531	0.0376	-0.1109	9.3043e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0380	9.1779e-02	4.1000e+00
137	IHT000010	-0.1427	0.0526	-0.0841	9.0412e-02	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0699	7.8918e-02	4.1000e+00
139	IHT000012	-0.3606	0.0301	-0.0949	1.0259e-01	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0804	9.8648e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0273	8.8321e-02	4.1000e+00
142	IHT000015	-0.0488	0.1465	-0.0293	5.9189e-02	4.1000e+00
143	IHT000016	-0.1352	0.0601	-0.0532	9.7377e-02	4.1000e+00
144	IHT000017	-0.3530	0.4282	0.0532	2.8683e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	-0.0165	9.6655e-02	4.1000e+00
146	IHT000019	0.0413	0.6273	0.3108	1.1084e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0368	9.0412e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0341	1.0595e-01	4.1000e+00
149	IHT000022	0.0037	0.3944	0.1483	1.0297e-01	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1653	1.1838e-01	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.3364	1.1864e-01	4.1000e+00
152	IHT000025	0.2028	0.5935	0.3122	1.1942e-01	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0419	9.5357e-02	4.1000e+00
154	IHT000027	-0.2291	0.3568	0.0131	1.0106e-01	4.1000e+00
155	IHT000028	-0.2479	0.1427	0.0021	1.3111e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.1127	-0.0436	9.6655e-02	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0162	1.0705e-01	4.1000e+00
158	IHT000031	-0.3418	0.2441	-0.0645	1.1897e-01	4.1000e+00
159	IHT000032	-0.2930	0.0977	-0.0469	9.5112e-02	4.1000e+00
160	IHT000033	-0.0977	0.0976	-0.0469	8.6541e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0688	9.9512e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0285	1.0440e-01	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0823	1.1306e-01	4.1000e+00

Velocity 1 = 25.9449 (ft/sec) (+/- 1.6889 %)
Velocity 2 = 13.4138 (ft/sec) (+/- 1.7033 %)
Pressure drop = 21.6782 (psi)
Tsat in = 272.7171 (deg F) Tsat out = 233.5288 (deg F)
Phi inner = 0.0045 (kBtu/hr-ft2) (+/- 133.0224 %)
Phi outer = 0.0076 (kBtu/hr-ft2) (+/- 122.1854 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.8399	73.4806	73.1973	1.6535e-01	1.9000e+00
1	TRF000002	73.1115	73.5362	73.3802	1.0416e-01	1.9000e+00
2	TFM000001	85.7628	86.4982	86.1875	1.5750e-01	1.9002e+00
3	TIN000001	85.6909	86.2179	85.9661	1.3735e-01	1.9002e+00
4	TRV000001	85.6518	86.4912	86.1599	1.7570e-01	1.9002e+00
5	TSR000001	85.5928	86.2228	85.9952	1.3782e-01	1.9002e+00
6	TAO020136	78.4914	79.5515	79.0494	2.4739e-01	1.9001e+00
7	TAO050136	86.0755	86.7054	86.3970	1.2925e-01	1.9002e+00
8	TAO070136	85.9263	86.6654	86.3249	1.8938e-01	1.9002e+00
9	TAO080136	85.8789	86.6130	86.1613	1.6026e-01	1.9002e+00
10	TAO090136	86.0658	86.8003	86.3787	1.6663e-01	1.9002e+00
11	TAO100136	86.0858	86.6119	86.3047	1.2482e-01	1.9002e+00
12	TAO105136	86.3726	87.1102	86.8005	1.9976e-01	1.9002e+00
13	TAO110136	86.4022	86.9274	86.6366	1.3732e-01	1.9002e+00
14	TAO115136	86.1042	86.7362	86.4634	2.0585e-01	1.9002e+00
15	TAO120136	86.0117	86.7472	86.4196	1.7383e-01	1.9002e+00
16	TAO125136	86.1274	86.8631	86.5541	1.6372e-01	1.9002e+00
17	TAO130136	85.9315	86.5601	86.2075	1.2905e-01	1.9002e+00
18	TAO120048	74.3897	75.3448	74.8809	2.5865e-01	1.9000e+00
19	TAO130048	85.7153	86.3468	86.0611	1.4225e-01	1.9002e+00
20	TAO120224	85.8349	86.4671	86.1126	1.4682e-01	1.9002e+00
21	TAO130224	85.7829	86.5164	86.1789	1.7239e-01	1.9002e+00
22	TAO120312	85.7162	86.4538	86.0602	1.7042e-01	1.9002e+00
23	TAO130312	85.7465	86.3783	85.9983	1.3377e-01	1.9002e+00
24	TRT020000	86.0524	86.7910	86.4722	1.8827e-01	1.9002e+00
25	TRT070000	86.0258	86.6602	86.3946	1.4336e-01	1.9002e+00
26	TRT100000	86.2327	87.0737	86.6256	2.0175e-01	1.9002e+00
27	TRT120000	85.9966	86.8371	86.4356	1.3526e-01	1.9002e+00
28	TRT125000	91.2643	112.3079	98.8839	5.1612e+00	1.9006e+00
29	TRT130000	85.7435	86.4784	86.1152	1.6207e-01	1.9002e+00
30	EMPTY	38.9168	40.0646	39.5354	2.5325e-01	1.9011e+00
31	TAF050136	86.1039	86.7352	86.4880	1.4137e-01	1.9002e+00
32	TAF070136	79.9036	80.6421	80.3150	1.9951e-01	1.9001e+00
33	TAF080136	86.0532	86.6837	86.3685	1.5706e-01	1.9002e+00
34	TAF090136	73.7388	74.6949	74.2484	2.2809e-01	1.9000e+00
35	TAF100136	85.9980	86.6301	86.2906	1.4477e-01	1.9002e+00
36	TAF105136	86.0200	86.8566	86.4289	2.2573e-01	1.9002e+00
37	TAF110136	85.9025	86.4288	86.1884	1.3206e-01	1.9002e+00
38	TAF115136	86.2406	87.1862	86.7038	1.8168e-01	1.9002e+00
39	TAF120136	86.1845	86.7100	86.4105	1.0519e-01	1.9002e+00
40	TAF125136	86.0304	87.1798	86.5493	2.5018e-01	1.9002e+00
41	TAF130136	86.0806	86.6067	86.3466	1.2721e-01	1.9002e+00
42	TAF120048	86.3101	87.1567	86.7400	2.5017e-01	1.9002e+00
43	TAF130048	85.9972	86.5241	86.2833	1.4877e-01	1.9002e+00
44	TAF120224	86.1015	86.8373	86.4830	1.6707e-01	1.9002e+00
45	TAF130224	85.4497	86.0835	85.9281	1.2401e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1288	1.9912e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1746	7.6055e-02	1.9010e+00
48	TAI130048	85.9491	87.2104	86.5944	2.7968e-01	1.9002e+00
49	TAI130136	85.4218	86.3669	85.9186	2.0632e-01	1.9002e+00
50	TAI130224	86.6300	87.5781	87.0926	2.7597e-01	1.9002e+00
51	TAI130312	85.9330	86.7750	86.3499	1.9450e-01	1.9002e+00
52	TRR130000	84.6119	85.4518	84.9949	2.1990e-01	1.9002e+00
53	TSI000001	77.7014	78.3372	78.0409	1.4796e-01	1.9000e+00
54	TSI000002	74.2111	75.0592	74.6628	2.2958e-01	1.9000e+00
55	TSO000001	72.4455	73.1923	72.7875	1.7007e-01	1.9000e+00
56	TSO000002	80.6570	81.5031	81.0479	2.1592e-01	1.9001e+00
57	TAF020136	85.3796	86.2252	85.7702	1.8843e-01	1.9002e+00
58	TAF120312	85.7724	86.6137	86.1543	2.4330e-01	1.9002e+00
59	TAF130312	85.4084	85.9348	85.7046	1.3526e-01	1.9002e+00
60	EMPTY	0.4834	0.4932	0.4884	1.5727e-03	0.0000e+00
61	EMPTY	0.5029	0.5078	0.5031	9.7615e-04	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5164	2.1215e-03	0.0000e+00
63	EMPTY	0.5273	0.5371	0.5323	1.2165e-03	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3437	2.4037e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3660	9.7615e-04	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3808	6.9754e-04	0.0000e+00
67	EMPTY	0.4004	0.4004	0.4004	0.0000e+00	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4149	6.9754e-04	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4337	1.9103e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4490	9.7615e-04	0.0000e+00
71	EMPTY	0.4688	0.4785	0.4729	1.9934e-03	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4856	2.4538e-03	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5063	2.2737e-03	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5223	9.7615e-04	0.0000e+00
75	EMPTY	0.5371	0.5469	0.5390	2.6022e-03	0.0000e+00
76	EMPTY	0.5469	0.5566	0.5523	1.7954e-03	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5736	2.4621e-03	0.0000e+00
78	EMPTY	0.5957	0.5957	0.5957	0.0000e+00	0.0000e+00
79	EMPTY	0.6104	0.6201	0.6156	1.6787e-03	0.0000e+00
80	PAN020136	79.5072	80.3464	79.9400	2.0388e-01	8.9266e-01
81	PAN050136	149.5792	150.9525	150.2083	3.7198e-01	1.7215e+00
82	PAN070136	83.3015	84.2171	83.7842	2.2427e-01	8.9486e-01
83	PAN080136	40.2129	40.8233	40.5352	1.3511e-01	8.7588e-01
84	PAN090136	37.4076	38.0180	37.6816	1.3480e-01	8.7509e-01
85	PAN100136	45.8689	46.5556	46.1258	1.3459e-01	8.7761e-01
86	PAN105136	24.2652	24.7992	24.5703	1.3666e-01	8.7217e-01
87	PAN110136	31.1537	31.6115	31.3732	1.0049e-01	8.7353e-01
88	PAN115136	33.6391	34.0968	33.8539	1.0865e-01	8.7411e-01
89	PAN120136	37.5785	37.8837	37.7872	8.0585e-02	8.7511e-01
90	PAN125136	22.8068	23.1883	23.0154	8.6395e-02	8.7190e-01
91	PAN130136	11.1677	11.5491	11.3872	9.0316e-02	8.7047e-01
92	PAN120048	28.6353	29.2457	28.9296	1.1338e-01	8.7300e-01
93	PAN130048	57.9308	58.6937	58.2749	1.4947e-01	8.8211e-01
94	PAN120224	61.3346	62.0212	61.6553	1.5257e-01	8.8355e-01
95	PAN130224	44.5544	45.0885	44.7537	1.3649e-01	8.7716e-01
96	PAN120312	31.6695	32.2036	31.9638	1.2263e-01	8.7366e-01
97	PAN130312	53.9458	54.6324	54.2728	1.5728e-01	8.8052e-01
98	PAB000136	43.4782	43.9360	43.7323	9.8029e-02	5.9421e-01
99	PAB100136	27.6422	27.7796	27.7142	3.8527e-02	5.8412e-01
100	PAB125136	22.1895	22.3727	22.2634	4.0532e-02	5.8266e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	43.3767	44.1091	43.6084	1.6945e-01	7.5788e-01
102	PRV000001	18.8641	18.9861	18.8666	1.7439e-02	7.5148e-01
103	PSR000001	19.6691	19.7911	19.7064	5.6843e-02	7.5162e-01
104	PFM000001	102.8067	105.2786	103.8399	5.5815e-01	5.6338e-01
105	PAN000136	600.1725	600.1725	600.1723	2.4667e-04	5.1437e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6356e-06	2.1154e-01
107	EMPTY	0.0049	0.0195	0.0101	1.8400e-03	0.0000e+00
108	EMPTY	-10.0000	1.1133	-6.3032	3.8859e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0064	2.2737e-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	1.7263e-03	0.0000e+00
112	VPW000001	-1.0479	-0.6573	-0.8367	7.8092e-02	8.1002e-01
113	VPW000002	-0.8451	-0.4545	-0.7494	1.1362e-01	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6529	1.1146e-01	8.1001e-01
115	VPW000004	-0.8752	-0.2892	-0.6081	1.3633e-01	8.1001e-01
116	VPW000005	-1.4686	-1.2733	-1.3450	9.5132e-02	8.1004e-01
117	VPW000006	-1.8442	-1.0630	-1.4735	1.3369e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.7242	1.1956e+00	8.1004e+00
119	IPW000002	-14.1844	-6.3793	-10.0429	1.5236e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-11.1911	1.1258e+00	8.1005e+00
121	IPW000004	-2.2536	-1.7654	-2.0444	2.4414e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5918	2.3738e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.1399	2.9388e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0098	-0.0194	3.6607e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.5510e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0179	3.3634e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0152	3.0934e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0352	8.5810e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0575	9.1305e-02	4.1000e+00
130	IHT000003	-0.2817	0.3042	-0.0386	1.0188e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0274	1.0731e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0471	1.0299e-01	4.1000e+00
133	IHT000006	-0.0601	0.1352	0.0395	9.8648e-02	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0441	7.8092e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.1099	8.4860e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0343	7.9328e-02	4.1000e+00
137	IHT000010	-0.3380	0.2479	-0.0750	1.1658e-01	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0651	8.2338e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0816	9.7656e-02	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.1111	8.9148e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0040	9.3412e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0090	9.7490e-02	4.1000e+00
143	IHT000016	-0.1352	0.2554	-0.0395	1.1362e-01	4.1000e+00
144	IHT000017	-0.3530	0.4282	0.0974	2.6805e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0225	1.2607e-01	4.1000e+00
146	IHT000019	0.0413	0.6273	0.2884	1.0378e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0683	8.3705e-02	4.1000e+00
148	IHT000021	-0.0714	0.1240	-0.0036	9.3931e-02	4.1000e+00
149	IHT000022	0.0037	0.3944	0.1273	1.1059e-01	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1413	7.5987e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.3494	1.0204e-01	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2945	9.8483e-02	4.1000e+00
153	IHT000026	-0.1690	0.0263	-0.0056	7.2937e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	-0.0218	4.7310e-02	4.1000e+00
155	IHT000028	-0.2479	0.3381	-0.0127	1.0533e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.3080	-0.0268	1.0548e-01	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0328	1.0941e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0349	1.0548e-01	4.1000e+00
159	IHT000032	-0.0976	0.0977	-0.0290	9.3931e-02	4.1000e+00
160	IHT000033	-0.0977	0.0976	-0.0339	9.2540e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0256	1.0092e-01	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0437	1.0268e-01	4.1000e+00
163	IHT000036	-0.1878	0.0075	-0.0842	9.8483e-02	4.1000e+00

Velocity 1 = 0.008099 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.000000 (psi)

Tsat in = 0.063812 (deg F) Tsat out = 0.095901 (deg F)

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

#	Name	Abs Diff	%Diff
0	TRF000001	0.0071	0.0097
1	TRF000002	0.0286	0.0390
2	TFM000001	0.0169	0.0196
3	TIN000001	0.0492	0.0572
4	TRV000001	0.0457	0.0531
5	TSR000001	0.0583	0.0678
6	TAO020136	0.0620	0.0785
7	TAO050136	0.0145	0.0168
8	TAO070136	0.0616	0.0713
9	TAO080136	0.0904	0.1048
10	TAO090136	0.0315	0.0365
11	TAO100136	0.0040	0.0046
12	TAO105136	0.0524	0.0603
13	TAO110136	0.0184	0.0212
14	TAO115136	0.1001	0.1156
15	TAO120136	0.0002	0.0002
16	TAO125136	0.0438	0.0506
17	TAO130136	0.0257	0.0298
18	TAO120048	0.0120	0.0160
19	TAO130048	0.0496	0.0576
20	TAO120224	0.0035	0.0041
21	TAO130224	0.0234	0.0271
22	TAO120312	0.0027	0.0031
23	TAO130312	0.0474	0.0551
24	TRT020000	0.0401	0.0464
25	TRT070000	0.0242	0.0280
26	TRT100000	0.0446	0.0515
27	TRT120000	0.0353	0.0408
28	TRT125000	4.7476	5.0433
29	TRT130000	0.0492	0.0571
30	EMPTY	0.0124	0.0314
31	TAF050136	0.0154	0.0178
32	TAF070136	0.0318	0.0396
33	TAF080136	0.0459	0.0531
34	TAF090136	0.0505	0.0681
35	TAF100136	0.0826	0.0956
36	TAF105136	0.0393	0.0455
37	TAF110136	0.0341	0.0396
38	TAF115136	0.0285	0.0329
39	TAF120136	0.0024	0.0028
40	TAF125136	0.0961	0.1109
41	TAF130136	0.0366	0.0424
42	TAF120048	0.0358	0.0413
43	TAF130048	0.0467	0.0541
44	TAF120224	0.0118	0.0136
45	TAF130224	0.0495	0.0576

#	Name	Abs Diff	%Diff
46	EMPTY	0.0440	0.1155
47	EMPTY	0.0281	0.0718
48	TAI130048	0.0270	0.0312
49	TAI130136	0.0278	0.0323
50	TAI130224	0.0307	0.0352
51	TAI130312	0.0211	0.0244
52	TRR130000	0.0364	0.0428
53	TSI000001	0.0088	0.0113
54	TSI000002	0.0196	0.0263
55	TSO000001	0.0038	0.0052
56	TSO000002	0.0196	0.0242
57	TAF020136	0.0239	0.0279
58	TAF120312	0.0034	0.0039
59	TAF130312	0.0570	0.0665
60	EMPTY	0.0004	0.0818
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0004	0.0774
63	EMPTY	0.0001	0.0188
64	EMPTY	0.0002	0.0582
65	EMPTY	0.0001	0.0273
66	EMPTY	0.0002	0.0525
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0001	0.0241
69	EMPTY	0.0011	0.2543
70	EMPTY	0.0005	0.1115
71	EMPTY	0.0011	0.2332
72	EMPTY	0.0012	0.2477
73	EMPTY	0.0020	0.3966
74	EMPTY	0.0001	0.0192
75	EMPTY	0.0009	0.1672
76	EMPTY	0.0001	0.0181
77	EMPTY	0.0016	0.2797
78	EMPTY	0.0002	0.0336
79	EMPTY	0.0000	0.0000
80	PAN020136	0.0372	0.0465
81	PAN050136	0.0942	0.0627
82	PAN070136	0.0148	0.0177
83	PAN080136	0.0119	0.0294
84	PAN090136	0.0251	0.0666
85	PAN100136	0.0051	0.0111
86	PAN105136	0.0153	0.0622
87	PAN110136	0.0033	0.0105
88	PAN115136	0.0003	0.0009
89	PAN120136	0.0095	0.0251
90	PAN125136	0.0096	0.0417
91	PAN130136	0.0032	0.0281
92	PAN120048	0.0105	0.0363
93	PAN130048	0.0054	0.0093
94	PAN120224	0.0668	0.1082
95	PAN130224	0.0192	0.0429
96	PAN120312	0.0257	0.0805
97	PAN130312	0.0316	0.0582
98	PAB000136	0.0462	0.1055
99	PAB100136	0.0434	0.1564
100	PAB125136	0.0388	0.1740

1100 Wayne Avenue, Suite 1100
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301/587-8202

MANUFACTURED TO AIIM STANDARDS
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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0759	0.1737
102	PRV000001	0.0025	0.0133
103	PSR000001	0.0701	0.3545
104	PFM000001	0.0654	0.0629
105	PAN000136	0.0000	0.0000
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	2.0202
108	EMPTY	0.4864	8.3620
109	EMPTY	0.0006	8.5714
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	4.5455
112	VPW000001	0.0114	1.3813
113	VPW000002	0.0176	2.2947
114	VPW000003	0.0328	4.7834
115	VPW000004	0.0053	0.8640
116	VPW000005	0.0181	1.3279
117	VPW000006	0.0153	1.0277
118	IPW000001	0.0000	0.0000
119	IPW000002	0.0048	0.0478
120	IPW000003	0.0836	0.7526
121	IPW000004	0.0042	0.2050
122	IPW000005	0.0018	0.0501
123	IPW000006	0.1501	6.5546
124	EMPTY	0.0007	3.4826
125	EMPTY	0.0001	0.7752
126	EMPTY	0.0008	4.6784
127	EMPTY	0.0014	8.4337
128	IHT000001	0.0044	14.2857
129	IHT000002	0.0238	70.6231
130	IHT000003	0.0087	18.3932
131	IHT000004	0.0074	21.2644
132	IHT000005	0.0188	28.5281
133	IHT000006	0.0098	32.9966
134	IHT000007	0.0075	20.4918
135	IHT000008	0.0010	0.9017
136	IHT000009	0.0037	9.7368
137	IHT000010	0.0091	10.8204
138	IHT000011	0.0048	6.8670
139	IHT000012	0.0133	14.0147
140	IHT000013	0.0307	38.1841
141	IHT000014	0.0233	85.3480
142	IHT000015	0.0203	69.2833
143	IHT000016	0.0137	25.7519
144	IHT000017	0.0442	83.0827
145	IHT000018	0.0390	236.3636
146	IHT000019	0.0224	7.2072
147	IHT000020	0.0315	85.5978
148	IHT000021	0.0377	110.5572
149	IHT000022	0.0210	14.1605
150	IHT000023	0.0240	14.5191
151	IHT000024	0.0130	3.8645
152	IHT000025	0.0177	5.6694
153	IHT000026	0.0475	113.3652
154	IHT000027	0.0349	266.4122
155	IHT000028	0.0148	704.7620

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0168	38.5321
157	IHT000030	0.0166	102.4691
158	IHT000031	0.0296	45.8915
159	IHT000032	0.0170	36.2473
160	IHT000033	0.0130	27.7185
161	IHT000034	0.0432	62.7907
162	IHT000035	0.0152	53.3333
163	IHT000036	0.0019	2.3086

Velocity 1 = 23.9560 (ft/sec) (+/- 1.6954 %)
 Velocity 2 = 13.4143 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 18.0638 (psi)
 Tsat in = 266.9377 (deg F) Tsat out = 232.7036 (deg F)
 Phi inner = 0.0047 (kBtu/hr-ft2) (+/- 129.8679 %)
 Phi outer = 0.0075 (kBtu/hr-ft2) (+/- 122.7575 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.8399	73.4806	73.2073	1.9791e-01	1.9000e+00
1	TRF000002	73.1115	73.5362	73.4173	1.2254e-01	1.9000e+00
2	TFM000001	86.2884	87.0235	86.6702	1.9661e-01	1.9002e+00
3	TIN000001	86.1114	86.7441	86.4237	1.7149e-01	1.9002e+00
4	TRV000001	85.9655	87.0148	86.5999	2.3963e-01	1.9002e+00
5	TSR000001	85.9058	86.6407	86.2970	1.6302e-01	1.9002e+00
6	TAO020136	78.5976	79.6571	79.1950	2.3425e-01	1.9001e+00
7	TAO050136	86.3885	87.2282	86.8253	1.7534e-01	1.9002e+00
8	TAO070136	86.2435	87.2983	86.7621	2.1403e-01	1.9002e+00
9	TAO080136	86.0860	86.9250	86.5150	2.0316e-01	1.9002e+00
10	TAO090136	86.3794	87.2204	86.8378	1.8228e-01	1.9002e+00
11	TAO100136	86.2947	87.1355	86.7494	1.5823e-01	1.9002e+00
12	TAO105136	86.7934	87.7411	87.2863	2.3236e-01	1.9002e+00
13	TAO110136	86.7139	87.3434	87.0134	1.6969e-01	1.9002e+00
14	TAO115136	86.2093	87.2624	86.9253	2.3489e-01	1.9002e+00
15	TAO120136	86.4315	87.1678	86.8316	1.8890e-01	1.9002e+00
16	TAO125136	86.4412	87.3873	87.0047	2.0980e-01	1.9002e+00
17	TAO130136	86.3452	86.9742	86.6228	1.3509e-01	1.9002e+00
18	TAO120048	74.1769	75.4508	74.8859	2.8555e-01	1.9000e+00
19	TAO130048	86.0291	86.6605	86.4208	1.5324e-01	1.9002e+00
20	TAO120224	86.1501	86.8872	86.5546	1.6107e-01	1.9002e+00
21	TAO130224	86.0944	87.0377	86.5814	2.2137e-01	1.9002e+00
22	TAO120312	86.1372	86.7697	86.5165	1.7290e-01	1.9002e+00
23	TAO130312	86.0608	86.7974	86.4399	1.5332e-01	1.9002e+00
24	TRT020000	86.4741	87.5282	86.9676	2.2279e-01	1.9002e+00
25	TRT070000	86.4490	87.0823	86.8334	1.5635e-01	1.9002e+00
26	TRT100000	86.6525	87.4926	87.1269	1.8756e-01	1.9002e+00
27	TRT120000	86.6251	87.2567	86.8781	1.6870e-01	1.9002e+00
28	TRT125000	83.0205	284.2243	157.2827	6.3845e+01	1.9051e+00
29	TRT130000	86.0580	86.7947	86.5000	1.6865e-01	1.9002e+00
30	EMPTY	38.9168	40.0646	39.4954	2.3759e-01	1.9011e+00
31	TAF050136	86.6269	87.2579	86.9347	1.7343e-01	1.9002e+00
32	TAF070136	80.0081	80.9576	80.5569	2.2916e-01	1.9001e+00
33	TAF080136	86.3652	87.1005	86.7690	1.7384e-01	1.9002e+00
34	TAF090136	73.2083	74.3770	73.8333	3.0910e-01	1.9000e+00
35	TAF100136	86.3138	87.1570	86.7524	1.6816e-01	1.9002e+00
36	TAF105136	86.4369	87.2754	86.8565	2.2823e-01	1.9002e+00
37	TAF110136	86.3211	86.9523	86.6160	1.7354e-01	1.9002e+00
38	TAF115136	86.7645	87.5002	87.2102	2.0946e-01	1.9002e+00
39	TAF120136	86.4979	87.1283	86.8350	1.2771e-01	1.9002e+00
40	TAF125136	86.4468	87.4914	86.9331	2.6748e-01	1.9002e+00
41	TAF130136	86.4990	87.0258	86.7774	1.4376e-01	1.9002e+00
42	TAF120048	86.8387	87.4736	87.1691	1.9864e-01	1.9002e+00
43	TAF130048	86.3120	87.0487	86.6995	1.6936e-01	1.9002e+00
44	TAF120224	86.5200	87.4661	86.9116	2.0802e-01	1.9002e+00
45	TAF130224	85.8726	86.6108	86.3534	1.7853e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	2.0902e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1878	8.9118e-02	1.9010e+00
48	TAI130048	86.5785	87.5248	87.0626	2.5302e-01	1.9002e+00
49	TAI130136	85.8397	86.7857	86.4241	1.8145e-01	1.9002e+00
50	TAI130224	87.0514	88.1041	87.5950	2.6164e-01	1.9002e+00
51	TAI130312	86.3537	87.1957	86.8087	1.9883e-01	1.9002e+00
52	TRR130000	84.9242	85.9741	85.4167	2.6850e-01	1.9002e+00
53	TSI000001	78.0176	78.6527	78.3359	1.4346e-01	1.9000e+00
54	TSI000002	73.8922	75.1646	74.6009	2.5905e-01	1.9000e+00
55	TSO000001	72.2319	72.8722	72.5521	1.6131e-01	1.9000e+00
56	TSO000002	80.7627	81.6087	81.3251	2.0531e-01	1.9001e+00
57	TAF020136	85.8031	86.5435	86.2005	1.6480e-01	1.9002e+00
58	TAF120312	86.0875	87.1385	86.6464	2.8113e-01	1.9002e+00
59	TAF130312	85.7226	86.5644	86.1521	1.7890e-01	1.9002e+00
60	EMPTY	0.4932	0.5029	0.4984	1.6624e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5128	6.9053e-04	0.0000e+00
62	EMPTY	0.5225	0.5371	0.5263	2.6635e-03	0.0000e+00
63	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
64	EMPTY	0.3369	0.3516	0.3466	1.5566e-03	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3688	2.4642e-03	0.0000e+00
66	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
67	EMPTY	0.4004	0.4053	0.4048	1.4797e-03	0.0000e+00
68	EMPTY	0.4150	0.4199	0.4183	2.3365e-03	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4351	1.4797e-03	0.0000e+00
70	EMPTY	0.4492	0.4541	0.4525	2.3008e-03	0.0000e+00
71	EMPTY	0.4639	0.4785	0.4737	1.8429e-03	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4884	6.9053e-04	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5079	6.9053e-04	0.0000e+00
74	EMPTY	0.5176	0.5273	0.5238	2.4244e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5421	6.9053e-04	0.0000e+00
76	EMPTY	0.5566	0.5664	0.5568	1.3811e-03	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5764	9.6655e-04	0.0000e+00
78	EMPTY	0.5908	0.6055	0.6004	1.6972e-03	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6231	2.3941e-03	0.0000e+00
80	PAN020136	66.0795	67.0713	66.5235	2.0372e-01	8.8575e-01
81	PAN050136	123.6393	125.1652	124.3595	3.5154e-01	1.7085e+00
82	PAN070136	68.7294	69.7212	69.0895	2.2071e-01	8.8698e-01
83	PAN080136	32.9650	33.4227	33.1893	1.2561e-01	8.7395e-01
84	PAN090136	30.6174	31.0752	30.8433	1.0335e-01	8.7341e-01
85	PAN100136	37.8581	38.6210	38.2533	1.5312e-01	8.7524e-01
86	PAN105136	20.1453	20.5268	20.3421	9.6370e-02	8.7149e-01
87	PAN110136	25.8894	26.2709	26.1290	8.7207e-02	8.7245e-01
88	PAN115136	28.0696	28.6800	28.3519	9.5329e-02	8.7288e-01
89	PAN120136	31.2461	31.7039	31.5010	1.0410e-01	8.7356e-01
90	PAN125136	18.6869	19.1447	18.9677	9.9224e-02	8.7129e-01
91	PAN130136	8.9551	9.4892	9.2222	1.0369e-01	8.7031e-01
92	PAN120048	22.9896	23.5236	23.2734	1.0459e-01	8.7194e-01
93	PAN130048	48.1651	48.8518	48.4947	1.5215e-01	8.7841e-01
94	PAN120224	51.0349	51.5689	51.2714	1.5433e-01	8.7939e-01
95	PAN130224	36.6961	37.2302	36.9784	1.3979e-01	8.7490e-01
96	PAN120312	25.7186	26.1763	25.9551	1.1964e-01	8.7242e-01
97	PAN130312	44.7905	45.4009	45.1323	1.6402e-01	8.7729e-01
98	PAB000136	39.5414	39.8619	39.7117	7.3429e-02	5.8844e-01
99	PAB100136	26.4063	26.5436	26.4731	4.5505e-02	5.8376e-01
100	PAB125136	21.8691	22.0064	21.9314	4.3141e-02	5.8259e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.1042	39.7146	39.4924	1.6670e-01	7.5647e-01
102	PRV000001	18.7420	18.8641	18.8152	6.0409e-02	7.5147e-01
103	PSR000001	19.6691	19.7911	19.7863	2.4164e-02	7.5163e-01
104	PFM000001	87.5173	89.4400	88.4695	4.3220e-01	5.4673e-01
105	PAN000136	497.1757	503.5844	500.1054	1.4884e+00	5.0764e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0146	0.0097	1.2041e-03	0.0000e+00
108	EMPTY	-10.0000	3.0371	-7.6607	2.9918e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0054	1.4797e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0041	1.8082e-03	0.0000e+00
112	VPW000001	-1.0479	-0.6573	-0.7979	9.6976e-02	8.1001e-01
113	VPW000002	-0.8451	-0.4545	-0.7748	1.0259e-01	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6779	1.0297e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6603	1.0625e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.3280	1.0470e-01	8.1004e-01
117	VPW000006	-1.6489	-1.0630	-1.5005	1.2823e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.8413	1.0737e+00	8.1004e+00
119	IPW000002	-12.2331	-6.3793	-9.5794	1.1668e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-11.1465	1.2851e+00	8.1005e+00
121	IPW000004	-2.7419	-1.7654	-2.0388	2.6396e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.6291	3.2431e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.1728	3.8523e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0199	3.2479e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.5420e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0177	3.1023e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0172	3.7226e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0269	8.6810e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0571	9.0412e-02	4.1000e+00
130	IHT000003	-0.4770	0.1089	-0.0434	1.0654e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0387	9.1354e-02	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0542	9.8963e-02	4.1000e+00
133	IHT000006	-0.2554	0.1352	0.0180	1.1161e-01	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0484	7.2866e-02	4.1000e+00
135	IHT000008	-0.3531	0.0376	-0.1109	9.3043e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0458	9.8648e-02	4.1000e+00
137	IHT000010	-0.1427	0.2479	-0.0490	1.0617e-01	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0660	8.1729e-02	4.1000e+00
139	IHT000012	-0.3606	0.0301	-0.0910	1.0358e-01	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0687	1.0259e-01	4.1000e+00
141	IHT000014	-0.3906	0.5859	-0.0078	1.4743e-01	4.1000e+00
142	IHT000015	-0.4395	0.1465	-0.0488	9.6655e-02	4.1000e+00
143	IHT000016	-0.1352	0.0601	-0.0727	9.2034e-02	4.1000e+00
144	IHT000017	-0.5484	0.6235	0.0571	2.9594e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	-0.0283	1.1712e-01	4.1000e+00
146	IHT000019	0.2366	0.4319	0.2835	8.4262e-02	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0759	9.0412e-02	4.1000e+00
148	IHT000021	-0.0714	0.1240	0.0263	9.8648e-02	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1366	9.2034e-02	4.1000e+00
150	IHT000023	-0.0300	0.1653	0.1301	7.5798e-02	4.1000e+00
151	IHT000024	-0.4770	0.1089	-0.3207	1.0440e-01	4.1000e+00
152	IHT000025	0.2028	0.3981	0.3239	9.5764e-02	4.1000e+00
153	IHT000026	-0.1690	0.0263	0.0028	6.4113e-02	4.1000e+00
154	IHT000027	-0.2291	0.1615	0.0014	9.4125e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	-0.0213	1.0705e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.1127	-0.0553	8.8321e-02	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0123	1.1844e-01	4.1000e+00
158	IHT000031	-0.3418	0.2441	-0.0527	1.3805e-01	4.1000e+00
159	IHT000032	-0.2930	0.0977	-0.0078	1.0595e-01	4.1000e+00
160	IHT000033	-0.0977	0.0976	-0.0313	9.3461e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0219	8.6810e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0403	1.1844e-01	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0745	1.0507e-01	4.1000e+00

Velocity 1 = 23.9458 (ft/sec) (+/- 1.6954 %)
Velocity 2 = 13.4143 (ft/sec) (+/- 1.7033 %)
Pressure drop = 18.0727 (psi)
Tsat in = 266.9541 (deg F) Tsat out = 232.7068 (deg F)
Phi inner = 0.0046 (kBtu/hr-ft2) (+/- 130.2265 %)
Phi outer = 0.0077 (kBtu/hr-ft2) (+/- 121.3900 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.8399	73.4806	73.2191	1.6465e-01	1.9000e+00
1	TRF000002	73.1115	73.5362	73.3542	1.1468e-01	1.9000e+00
2	TFM000001	86.2878	87.0235	86.6780	2.1004e-01	1.9002e+00
3	TIN000001	86.1120	86.7441	86.4022	1.6163e-01	1.9002e+00
4	TRV000001	86.0712	86.9111	86.5765	1.7065e-01	1.9002e+00
5	TSR000001	85.9064	86.6407	86.3092	1.5046e-01	1.9002e+00
6	TAO020136	78.5976	79.5515	79.1554	2.3774e-01	1.9001e+00
7	TAO050136	86.4941	87.2282	86.8213	1.6524e-01	1.9002e+00
8	TAO070136	86.3491	87.0874	86.8009	2.0429e-01	1.9002e+00
9	TAO080136	86.2967	86.9250	86.5641	1.4035e-01	1.9002e+00
10	TAO090136	86.3800	87.2204	86.8172	2.0019e-01	1.9002e+00
11	TAO100136	86.4004	87.0314	86.7393	1.4109e-01	1.9002e+00
12	TAO105136	86.6880	87.6356	87.2492	2.2054e-01	1.9002e+00
13	TAO110136	86.7156	87.4489	87.0427	1.6479e-01	1.9002e+00
14	TAO115136	86.6306	87.2624	86.9765	1.8971e-01	1.9002e+00
15	TAO120136	86.5377	87.1684	86.8505	1.5542e-01	1.9002e+00
16	TAO125136	86.6513	87.3863	87.0696	1.8987e-01	1.9002e+00
17	TAO130136	86.4503	86.8692	86.6070	1.3159e-01	1.9002e+00
18	TAO120048	74.2830	75.3448	74.9177	2.8621e-01	1.9000e+00
19	TAO130048	86.2398	86.7655	86.4991	1.3063e-01	1.9002e+00
20	TAO120224	86.2558	86.7822	86.5692	1.4647e-01	1.9002e+00
21	TAO130224	86.2000	87.3489	86.6909	2.3743e-01	1.9002e+00
22	TAO120312	86.1368	86.7697	86.5179	1.4070e-01	1.9002e+00
23	TAO130312	86.0619	86.6924	86.3984	1.3745e-01	1.9002e+00
24	TRT020000	86.5792	87.3177	86.9950	1.8059e-01	1.9002e+00
25	TRT070000	86.5540	87.1882	86.8544	1.2812e-01	1.9002e+00
26	TRT100000	86.7575	87.3876	87.0767	1.7653e-01	1.9002e+00
27	TRT120000	86.5214	87.2567	86.8662	1.4559e-01	1.9002e+00
28	TRT125000	106.3606	261.5834	164.2787	3.6234e+01	1.9060e+00
29	TRT130000	86.1636	87.0033	86.5283	1.6201e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.5401	2.2474e-01	1.9011e+00
31	TAF050136	86.5232	87.3629	86.9472	1.5147e-01	1.9002e+00
32	TAF070136	80.2199	80.8521	80.5401	2.0121e-01	1.9001e+00
33	TAF080136	86.5753	87.0983	86.7791	1.5760e-01	1.9002e+00
34	TAF090136	73.3159	74.2704	73.8222	2.3441e-01	1.9000e+00
35	TAF100136	86.4189	87.1570	86.7872	1.6952e-01	1.9002e+00
36	TAF105136	86.2291	87.2732	86.8138	2.2951e-01	1.9002e+00
37	TAF110136	86.4268	86.9523	86.6304	1.4598e-01	1.9002e+00
38	TAF115136	86.7651	87.5002	87.1466	1.8265e-01	1.9002e+00
39	TAF120136	86.6035	87.0247	86.8182	1.0939e-01	1.9002e+00
40	TAF125136	86.5524	87.5970	87.0363	2.7504e-01	1.9002e+00
41	TAF130136	86.4994	87.0258	86.7894	1.1072e-01	1.9002e+00
42	TAF120048	86.7346	87.5794	87.1825	2.0742e-01	1.9002e+00
43	TAF130048	86.4176	87.0487	86.7438	1.5509e-01	1.9002e+00
44	TAF120224	86.6257	87.2565	86.9388	1.7216e-01	1.9002e+00
45	TAF130224	86.0833	86.6108	86.3742	1.0222e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0866	2.1414e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1793	9.3751e-02	1.9010e+00
48	TAI130048	86.4740	87.7353	87.0511	3.4046e-01	1.9002e+00
49	TAI130136	86.0499	86.7857	86.3654	1.8179e-01	1.9002e+00
50	TAI130224	86.8413	88.1046	87.5589	2.9604e-01	1.9002e+00
51	TAI130312	86.3540	87.1957	86.8029	2.0469e-01	1.9002e+00
52	TRR130000	85.0315	85.9746	85.4843	2.2183e-01	1.9002e+00
53	TSI000001	78.0182	78.7590	78.3144	1.3827e-01	1.9000e+00
54	TSI000002	74.1056	75.1646	74.6736	2.3545e-01	1.9000e+00
55	TSO000001	72.1258	72.8722	72.5153	1.7092e-01	1.9000e+00
56	TSO000002	80.9737	81.6087	81.2828	2.0669e-01	1.9001e+00
57	TAF020136	85.9082	86.7551	86.2563	1.8316e-01	1.9002e+00
58	TAF120312	86.0874	87.0335	86.6193	2.5223e-01	1.9002e+00
59	TAF130312	85.8277	86.4593	86.1437	1.6065e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.4987	1.7263e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5129	9.7615e-04	0.0000e+00
62	EMPTY	0.5225	0.5322	0.5272	1.5727e-03	0.0000e+00
63	EMPTY	0.5371	0.5469	0.5419	1.2165e-03	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3468	6.9754e-04	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3684	2.4538e-03	0.0000e+00
66	EMPTY	0.3809	0.3857	0.3856	6.9754e-04	0.0000e+00
67	EMPTY	0.4004	0.4053	0.4046	1.7263e-03	0.0000e+00
68	EMPTY	0.4150	0.4199	0.4173	2.4621e-03	0.0000e+00
69	EMPTY	0.4297	0.4395	0.4347	1.2165e-03	0.0000e+00
70	EMPTY	0.4492	0.4541	0.4520	2.4414e-03	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4743	1.7263e-03	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4885	9.7615e-04	0.0000e+00
73	EMPTY	0.5029	0.5127	0.5082	1.6787e-03	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5240	2.2737e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5421	6.9754e-04	0.0000e+00
76	EMPTY	0.5566	0.5664	0.5568	1.3951e-03	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5764	9.7615e-04	0.0000e+00
78	EMPTY	0.5957	0.6006	0.6005	6.9754e-04	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6237	2.1781e-03	0.0000e+00
80	PAN020136	66.0032	66.8424	66.4718	1.9389e-01	8.8573e-01
81	PAN050136	123.6393	125.0126	124.4552	3.3190e-01	1.7086e+00
82	PAN070136	68.7294	69.7212	69.1638	2.2090e-01	8.8702e-01
83	PAN080136	32.8887	33.5753	33.1907	1.5648e-01	8.7395e-01
84	PAN090136	30.6174	31.0752	30.8214	9.6490e-02	8.7341e-01
85	PAN100136	38.0107	38.5447	38.3283	1.3338e-01	8.7526e-01
86	PAN105136	20.0690	20.5268	20.3399	1.1451e-01	8.7148e-01
87	PAN110136	25.8894	26.3472	26.1167	1.0388e-01	8.7245e-01
88	PAN115136	28.1459	28.7563	28.3623	1.3608e-01	8.7288e-01
89	PAN120136	31.3224	31.7802	31.5497	1.0388e-01	8.7357e-01
90	PAN125136	18.6869	19.1447	18.9594	8.8097e-02	8.7129e-01
91	PAN130136	9.0314	9.5655	9.2152	1.0892e-01	8.7031e-01
92	PAN120048	23.0659	23.6762	23.3041	1.3363e-01	8.7195e-01
93	PAN130048	48.2414	48.7755	48.5108	1.3406e-01	8.7841e-01
94	PAN120224	51.1112	51.7215	51.3681	1.6459e-01	8.7943e-01
95	PAN130224	36.7724	37.3065	37.0293	1.2813e-01	8.7491e-01
96	PAN120312	25.7186	26.1763	25.9428	1.0835e-01	8.7241e-01
97	PAN130312	44.7905	45.4772	45.1767	1.6438e-01	8.7730e-01
98	PAB000136	39.5872	39.9076	39.7226	8.5108e-02	5.8844e-01
99	PAB100136	26.4063	26.5824	26.4801	4.2632e-02	5.8377e-01
100	PAB125136	21.8691	22.0064	21.9327	3.8318e-02	5.8259e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2263	39.7146	39.5128	1.4647e-01	7.5648e-01
102	PRV000001	18.7420	18.8641	18.8417	4.7758e-02	7.5148e-01
103	PSR000001	19.6691	19.7911	19.7837	2.9569e-02	7.5163e-01
104	PFM000001	87.7920	89.2569	88.3936	3.8025e-01	5.4666e-01
105	PAN000136	497.1757	503.5844	500.3520	1.4488e+00	5.0765e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6356e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0096	9.7615e-04	0.0000e+00
108	EMPTY	-10.0000	-5.2734	-8.1886	1.6252e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0060	2.0584e-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	1.9883e-03	0.0000e+00
112	VPW000001	-1.0479	-0.6573	-0.8247	9.7656e-02	8.1002e-01
113	VPW000002	-1.0404	-0.6498	-0.8212	9.4620e-02	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6649	1.1546e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6639	1.1161e-01	8.1001e-01
116	VPW000005	-1.4686	-0.8827	-1.3012	1.1960e-01	8.1004e-01
117	VPW000006	-1.6489	-1.4536	-1.5413	9.8153e-02	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-10.0430	1.0040e+00	8.1004e+00
119	IPW000002	-12.2331	-6.3793	-9.4456	1.2595e+00	8.1003e+00
120	IPW000003	-12.8625	-8.9625	-10.9125	1.0531e+00	8.1005e+00
121	IPW000004	-2.7419	-1.7654	-2.0344	2.8299e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.4922	3.0701e-01	2.0002e+00
123	IPW000006	-3.2959	-1.3427	-2.2296	4.0698e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0194	3.5224e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.0781e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0146	-0.0171	2.4662e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	2.9526e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0352	8.5810e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0455	6.8582e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0306	8.9148e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0195	7.3601e-02	4.1000e+00
132	IHT000005	-0.2066	-0.0113	-0.0671	8.9148e-02	4.1000e+00
133	IHT000006	-0.2554	0.1352	0.0196	1.0486e-01	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0521	6.8582e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0780	9.6990e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0382	8.3705e-02	4.1000e+00
137	IHT000010	-0.3380	0.0526	-0.0750	1.0204e-01	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0651	9.1482e-02	4.1000e+00
139	IHT000012	-0.3606	0.0301	-0.0895	1.0409e-01	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.1031	8.6187e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0120	7.3601e-02	4.1000e+00
142	IHT000015	-0.2442	0.3418	-0.0209	8.9148e-02	4.1000e+00
143	IHT000016	-0.3305	0.0601	-0.0714	1.0076e-01	4.1000e+00
144	IHT000017	-0.3530	0.4282	0.0575	2.8540e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	-0.0094	9.2189e-02	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2765	1.0533e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0723	8.7680e-02	4.1000e+00
148	IHT000021	-0.2667	0.1240	-0.0036	1.0204e-01	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1393	9.0949e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1294	1.0299e-01	4.1000e+00
151	IHT000024	-0.4770	-0.2817	-0.3494	9.3931e-02	4.1000e+00
152	IHT000025	0.0075	0.3981	0.3025	1.0640e-01	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0024	8.5810e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	-0.0179	5.4032e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	-0.0326	9.9629e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.1127	-0.0508	1.2937e-02	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0288	1.0746e-01	4.1000e+00
158	IHT000031	-0.3418	0.2441	-0.0309	1.2556e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	-0.0099	1.0594e-01	4.1000e+00
160	IHT000033	-0.2930	0.0976	-0.0299	1.0204e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0296	8.8783e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0238	9.1482e-02	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0642	1.1755e-01	4.1000e+00

Velocity 1 = 0.010199 (ft/sec)
 Velocity 2 = 0.000000 (ft/sec)
 Pressure Drop = 0.008900 (psi)
 Tsat in = 0.016388 (deg F) Tsat out = 0.003204 (deg F)
 Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000200 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0118	0.0161
1	TRF000002	0.0631	0.0859
2	TFM000001	0.0078	0.0090
3	TIN000001	0.0215	0.0249
4	TRV000001	0.0234	0.0270
5	TSR000001	0.0122	0.0141
6	TAO020136	0.0396	0.0500
7	TAO050136	0.0040	0.0046
8	TAO070136	0.0388	0.0447
9	TAO080136	0.0491	0.0568
10	TAO090136	0.0206	0.0237
11	TAO100136	0.0101	0.0116
12	TAO105136	0.0371	0.0425
13	TAO110136	0.0293	0.0337
14	TAO115136	0.0512	0.0589
15	TAO120136	0.0189	0.0218
16	TAO125136	0.0649	0.0746
17	TAO130136	0.0158	0.0182
18	TAO120048	0.0318	0.0425
19	TAO130048	0.0783	0.0906
20	TAO120224	0.0146	0.0169
21	TAO130224	0.1095	0.1265
22	TAO120312	0.0014	0.0016
23	TAO130312	0.0415	0.0480
24	TRT020000	0.0274	0.0315
25	TRT070000	0.0210	0.0242
26	TRT100000	0.0502	0.0576
27	TRT120000	0.0119	0.0137
28	TRT125000	6.9960	4.4480
29	TRT130000	0.0283	0.0327
30	EMPTY	0.0447	0.1132
31	TAF050136	0.0125	0.0144
32	TAF070136	0.0168	0.0209
33	TAF080136	0.0101	0.0116
34	TAF090136	0.0111	0.0150
35	TAF100136	0.0348	0.0401
36	TAF105136	0.0427	0.0492
37	TAF110136	0.0144	0.0166
38	TAF115136	0.0636	0.0729
39	TAF120136	0.0168	0.0193
40	TAF125136	0.1032	0.1187
41	TAF130136	0.0120	0.0138
42	TAF120048	0.0134	0.0154
43	TAF130048	0.0443	0.0511
44	TAF120224	0.0272	0.0313
45	TAF130224	0.0208	0.0241

#	Name	Abs Diff	%Diff
46	EMPTY	0.0258	0.0677
47	EMPTY	0.0085	0.0217
48	TAI130048	0.0115	0.0132
49	TAI130136	0.0587	0.0679
50	TAI130224	0.0361	0.0412
51	TAI130312	0.0058	0.0067
52	TRR130000	0.0676	0.0791
53	TSI000001	0.0215	0.0274
54	TSI000002	0.0727	0.0975
55	TSO000001	0.0368	0.0507
56	TSO000002	0.0423	0.0520
57	TAF020136	0.0558	0.0647
58	TAF120312	0.0271	0.0313
59	TAF130312	0.0084	0.0098
60	EMPTY	0.0003	0.0602
61	EMPTY	0.0001	0.0195
62	EMPTY	0.0009	0.1710
63	EMPTY	0.0001	0.0185
64	EMPTY	0.0002	0.0577
65	EMPTY	0.0004	0.1085
66	EMPTY	0.0001	0.0259
67	EMPTY	0.0002	0.0494
68	EMPTY	0.0010	0.2391
69	EMPTY	0.0004	0.0919
70	EMPTY	0.0005	0.1105
71	EMPTY	0.0006	0.1267
72	EMPTY	0.0001	0.0205
73	EMPTY	0.0003	0.0591
74	EMPTY	0.0002	0.0382
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0000	0.0000
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0001	0.0167
79	EMPTY	0.0006	0.0963
80	PAN020136	0.0517	0.0777
81	PAN050136	0.0957	0.0770
82	PAN070136	0.0743	0.1075
83	PAN080136	0.0014	0.0042
84	PAN090136	0.0219	0.0710
85	PAN100136	0.0750	0.1961
86	PAN105136	0.0022	0.0108
87	PAN110136	0.0123	0.0471
88	PAN115136	0.0104	0.0367
89	PAN120136	0.0487	0.1546
90	PAN125136	0.0083	0.0438
91	PAN130136	0.0070	0.0759
92	PAN120048	0.0307	0.1319
93	PAN130048	0.0161	0.0332
94	PAN120224	0.0967	0.1886
95	PAN130224	0.0509	0.1376
96	PAN120312	0.0123	0.0474
97	PAN130312	0.0444	0.0984
98	PAB000136	0.0109	0.0274
99	PAB100136	0.0070	0.0264
100	PAB125136	0.0013	0.0059

#	Name	Abs Diff	%Diff
101	PIN000001	0.0204	0.0516
102	PRV000001	0.0265	0.1408
103	PSR000001	0.0026	0.0131
104	PFM000001	0.0759	0.0858
105	PAN000136	0.2466	0.0493
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.0309
108	EMPTY	0.5279	6.8910
109	EMPTY	0.0006	11.1111
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	4.8781
112	VPW000001	0.0268	3.3588
113	VPW000002	0.0464	5.9886
114	VPW000003	0.0130	1.9177
115	VPW000004	0.0036	0.5452
116	VPW000005	0.0268	2.0181
117	VPW000006	0.0408	2.7191
118	IPW000001	0.2017	2.0495
119	IPW000002	0.1338	1.3968
120	IPW000003	0.2340	2.0993
121	IPW000004	0.0044	0.2158
122	IPW000005	0.1369	3.7723
123	IPW000006	0.0568	2.6141
124	EMPTY	0.0005	2.5126
125	EMPTY	0.0002	1.4184
126	EMPTY	0.0006	3.3898
127	EMPTY	0.0013	7.5581
128	IHT000001	0.0083	30.8550
129	IHT000002	0.0116	20.3152
130	IHT000003	0.0128	29.4931
131	IHT000004	0.0192	49.6124
132	IHT000005	0.0129	23.8007
133	IHT000006	0.0016	8.8889
134	IHT000007	0.0037	7.6446
135	IHT000008	0.0329	29.6664
136	IHT000009	0.0076	16.5939
137	IHT000010	0.0260	53.0612
138	IHT000011	0.0009	1.3636
139	IHT000012	0.0015	1.6483
140	IHT000013	0.0344	50.0728
141	IHT000014	0.0042	53.8462
142	IHT000015	0.0279	57.1721
143	IHT000016	0.0013	1.7882
144	IHT000017	0.0004	0.7005
145	IHT000018	0.0189	66.7844
146	IHT000019	0.0070	2.4691
147	IHT000020	0.0036	4.7431
148	IHT000021	0.0299	113.6882
149	IHT000022	0.0027	1.9766
150	IHT000023	0.0007	0.5380
151	IHT000024	0.0287	8.9492
152	IHT000025	0.0214	6.6070
153	IHT000026	0.0004	14.2857
154	IHT000027	0.0193	1378.5714
155	IHT000028	0.0113	53.0517

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0045	8.1374
157	IHT000030	0.0165	134.1463
158	IHT000031	0.0218	41.3662
159	IHT000032	0.0021	26.9231
160	IHT000033	0.0014	4.4728
161	IHT000034	0.0077	35.1598
162	IHT000035	0.0165	40.9429
163	IHT000036	0.0103	13.8255

Velocity 1 = 21.9866 (ft/sec) (+/- 1.7051 %)
 Velocity 2 = 13.4151 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 14.6157 (psi)
 Tsat in = 260.9944 (deg F) Tsat out = 231.5552 (deg F)
 Phi inner = 0.0047 (kBtu/hr-ft2) (+/- 129.6540 %)
 Phi outer = 0.0078 (kBtu/hr-ft2) (+/- 120.8304 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.0535	73.4806	73.2628	1.7520e-01	1.9000e+00
1	TRF000002	73.1115	73.5362	73.3579	1.3808e-01	1.9000e+00
2	TFM000001	86.9171	87.7576	87.3772	1.9194e-01	1.9002e+00
3	TIN000001	86.6382	87.2698	87.0108	1.4768e-01	1.9002e+00
4	TRV000001	86.5949	87.7478	87.1629	2.1300e-01	1.9002e+00
5	TSR000001	86.4300	87.3737	86.8600	1.7123e-01	1.9002e+00
6	TAO020136	78.8095	79.8688	79.3583	2.7966e-01	1.9001e+00
7	TAO050136	87.1209	87.8546	87.4417	1.4902e-01	1.9002e+00
8	TAO070136	87.0872	87.8250	87.4563	2.0782e-01	1.9002e+00
9	TAO080136	86.8181	87.4480	87.1436	1.7109e-01	1.9002e+00
10	TAO090136	87.1137	87.8486	87.4560	1.9647e-01	1.9002e+00
11	TAO100136	87.0296	87.6604	87.3220	1.5933e-01	1.9002e+00
12	TAO105136	87.4251	88.2664	87.9235	2.3830e-01	1.9002e+00
13	TAO110136	87.3411	87.8653	87.6070	1.5000e-01	1.9002e+00
14	TAO115136	86.9462	88.1031	87.5667	2.3585e-01	1.9002e+00
15	TAO120136	86.9572	87.7982	87.3547	1.7290e-01	1.9002e+00
16	TAO125136	87.2807	88.1202	87.7278	2.2012e-01	1.9002e+00
17	TAO130136	86.9670	87.5951	87.2296	1.7570e-01	1.9002e+00
18	TAO120048	74.7074	75.8748	75.2360	3.4659e-01	1.9000e+00
19	TAO130048	86.7628	87.3932	87.0342	1.5470e-01	1.9002e+00
20	TAO120224	86.8859	87.5170	87.1448	1.5062e-01	1.9002e+00
21	TAO130224	86.8246	87.6619	87.2663	2.1332e-01	1.9002e+00
22	TAO120312	86.6639	87.5059	87.1333	1.7820e-01	1.9002e+00
23	TAO130312	86.6908	87.4259	87.0122	1.5527e-01	1.9002e+00
24	TRT020000	87.2121	87.9494	87.6357	2.0576e-01	1.9002e+00
25	TRT070000	87.0840	87.7165	87.4319	1.7479e-01	1.9002e+00
26	TRT100000	87.2810	88.1207	87.7197	2.0401e-01	1.9002e+00
27	TRT120000	87.1504	87.8859	87.4888	1.5062e-01	1.9002e+00
28	TRT125000	79.1375	80.0856	79.6204	2.2641e-01	1.9001e+00
29	TRT130000	86.8977	87.8424	87.2862	1.9825e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5138	2.7043e-01	1.9011e+00
31	TAF050136	87.1510	87.9902	87.6021	1.9336e-01	1.9002e+00
32	TAF070136	80.4298	81.3773	80.9706	1.9840e-01	1.9001e+00
33	TAF080136	87.0962	87.7255	87.4047	1.6328e-01	1.9002e+00
34	TAF090136	73.6334	74.8009	74.2130	2.5925e-01	1.9000e+00
35	TAF100136	87.0514	87.7885	87.3653	1.7219e-01	1.9002e+00
36	TAF105136	86.9593	88.1083	87.4545	2.3670e-01	1.9002e+00
37	TAF110136	86.8452	87.5796	87.2123	1.6875e-01	1.9002e+00
38	TAF115136	87.2891	88.2334	87.7277	2.2509e-01	1.9002e+00
39	TAF120136	87.2309	87.8609	87.4644	1.3822e-01	1.9002e+00
40	TAF125136	86.9692	88.1183	87.6477	2.3601e-01	1.9002e+00
41	TAF130136	87.0238	87.5494	87.3202	1.5415e-01	1.9002e+00
42	TAF120048	87.3681	88.3183	87.8435	2.4984e-01	1.9002e+00
43	TAF130048	87.0471	87.6779	87.3395	1.7553e-01	1.9002e+00
44	TAF120224	87.1500	87.8851	87.5469	1.5921e-01	1.9002e+00
45	TAF130224	86.6116	87.2438	86.9424	1.6357e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	1.9242e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1878	8.9118e-02	1.9010e+00
48	TAI130048	86.9992	88.2600	87.6318	3.0403e-01	1.9002e+00
49	TAI130136	86.5737	87.4136	86.9833	2.0021e-01	1.9002e+00
50	TAI130224	87.6838	88.6310	88.2036	2.8476e-01	1.9002e+00
51	TAI130312	86.9851	87.8270	87.3829	2.0641e-01	1.9002e+00
52	TRR130000	85.4488	86.4982	86.0092	2.4595e-01	1.9002e+00
53	TSI000001	78.5459	79.4960	78.8697	1.8778e-01	1.9001e+00
54	TSI000002	74.5283	75.4821	75.0813	2.3272e-01	1.9000e+00
55	TSO000001	72.4461	73.4063	73.0070	2.0193e-01	1.9000e+00
56	TSO000002	81.5022	82.5581	81.9226	2.0404e-01	1.9001e+00
57	TAF020136	86.4388	87.2831	86.8249	1.8423e-01	1.9002e+00
58	TAF120312	86.7173	87.6629	87.2154	2.5434e-01	1.9002e+00
59	TAF130312	86.3528	87.0880	86.7754	1.5248e-01	1.9002e+00
60	EMPTY	0.5029	0.5176	0.5129	1.9631e-03	0.0000e+00
61	EMPTY	0.5273	0.5322	0.5274	6.9053e-04	0.0000e+00
62	EMPTY	0.5371	0.5469	0.5414	1.8821e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5564	9.6655e-04	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3517	6.9053e-04	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3735	2.4662e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3899	1.7115e-03	0.0000e+00
67	EMPTY	0.4053	0.4150	0.4087	2.4662e-03	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4230	2.3675e-03	0.0000e+00
69	EMPTY	0.4346	0.4443	0.4402	2.0598e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4565	2.4662e-03	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4796	2.0432e-03	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4934	9.6655e-04	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5130	1.1714e-03	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5291	2.3675e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5468	6.9053e-04	0.0000e+00
76	EMPTY	0.5615	0.5615	0.5615	0.0000e+00	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5813	9.6655e-04	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6054	6.9053e-04	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6256	1.6028e-03	0.0000e+00
80	PAN020136	53.7961	54.5591	54.1563	1.8691e-01	8.8047e-01
81	PAN050136	99.3778	101.2089	100.3300	4.3110e-01	1.6986e+00
82	PAN070136	55.1491	56.3698	55.6496	2.4621e-01	8.8105e-01
83	PAN080136	26.2511	26.9378	26.5700	1.7889e-01	8.7253e-01
84	PAN090136	24.0562	24.8954	24.5048	1.4995e-01	8.7215e-01
85	PAN100136	30.5339	31.3731	30.8421	1.7773e-01	8.7341e-01
86	PAN105136	16.0254	16.7121	16.3382	1.2734e-01	8.7096e-01
87	PAN110136	20.9303	21.6170	21.2477	1.2074e-01	8.7162e-01
88	PAN115136	23.0342	23.5683	23.2814	1.3748e-01	8.7194e-01
89	PAN120136	25.6004	25.9819	25.7911	1.0253e-01	8.7239e-01
90	PAN125136	15.2537	15.6352	15.4643	9.5714e-02	8.7086e-01
91	PAN130136	6.9715	7.5056	7.2584	1.1995e-01	8.7019e-01
92	PAN120048	17.8779	18.6408	18.2181	1.5040e-01	8.7119e-01
93	PAN130048	39.2388	40.0017	39.6019	1.5610e-01	8.7562e-01
94	PAN120224	41.0404	41.8033	41.3684	1.5813e-01	8.7613e-01
95	PAN130224	30.2874	30.9741	30.6399	1.4202e-01	8.7337e-01
96	PAN120312	20.2254	20.8358	20.5245	1.3773e-01	8.7151e-01
97	PAN130312	36.7034	37.3137	36.9765	1.5497e-01	8.7490e-01
98	PAB000136	35.6962	36.0624	35.9223	8.6465e-02	5.8691e-01
99	PAB100136	25.1245	25.2619	25.1987	4.0195e-02	5.8341e-01
100	PAB125136	21.4113	21.5945	21.4754	4.7157e-02	5.8248e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	35.4421	36.1745	35.8205	1.7655e-01	7.5533e-01
102	PRV000001	18.8641	18.9861	18.8860	4.7374e-02	7.5148e-01
103	PSR000001	19.6691	19.7911	19.7545	5.6508e-02	7.5162e-01
104	PFM000001	73.6929	75.4324	74.4601	3.7356e-01	5.3353e-01
105	PAN000136	400.1298	408.8273	404.6434	1.8497e+00	5.0229e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0092	1.6028e-03	0.0000e+00
108	EMPTY	-10.0000	1.9531	-6.5872	3.4765e+00	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	0.0195	0.0034	3.3087e-03	0.0000e+00
112	VPW000001	-1.0479	-0.6573	-0.8331	9.8648e-02	8.1002e-01
113	VPW000002	-1.0404	-0.6498	-0.7748	1.0259e-01	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6701	9.8648e-02	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6486	9.9512e-02	8.1001e-01
116	VPW000005	-1.6639	-1.0780	-1.3670	1.1995e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.5005	1.1545e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.6852	1.2151e+00	8.1004e+00
119	IPW000002	-12.2331	-8.3306	-10.2819	1.3075e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-11.2245	1.2680e+00	8.1005e+00
121	IPW000004	-2.7419	-1.7654	-2.0193	2.6543e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5607	3.2175e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2314	3.5141e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0207	3.6326e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0147	2.8744e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0168	2.6396e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0177	3.2554e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0152	7.3716e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0493	9.1779e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0278	9.0412e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0270	1.0625e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0425	1.0705e-01	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0454	1.0595e-01	4.1000e+00
134	IHT000007	-0.0601	0.1352	-0.0171	8.1729e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0679	9.8332e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0224	9.2456e-02	4.1000e+00
137	IHT000010	-0.3380	0.0526	-0.0959	1.0106e-01	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0894	7.1136e-02	4.1000e+00
139	IHT000012	-0.3606	0.0301	-0.1028	1.1464e-01	4.1000e+00
140	IHT000013	-0.0563	0.1390	0.0765	9.2034e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0234	7.5283e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0293	7.1136e-02	4.1000e+00
143	IHT000016	-0.1352	0.0601	-0.0571	9.6655e-02	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.0571	2.8523e-01	4.1000e+00
145	IHT000018	-0.1728	0.4131	0.0069	1.2378e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2796	1.0654e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0642	6.7888e-02	4.1000e+00
148	IHT000021	-0.0714	0.1240	0.0068	9.6655e-02	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1287	9.4702e-02	4.1000e+00
150	IHT000023	-0.2254	0.3606	0.1496	1.0320e-01	4.1000e+00
151	IHT000024	-0.4770	-0.2817	-0.3793	9.8648e-02	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2849	9.7377e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	-0.0050	9.1354e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	0.0131	8.4262e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	0.0021	1.0470e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.1127	-0.0475	9.4125e-02	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0280	1.0654e-01	4.1000e+00
158	IHT000031	-0.3418	0.2441	-0.0566	1.2608e-01	4.1000e+00
159	IHT000032	-0.2930	0.2930	-0.0273	1.1679e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	-0.0274	1.0259e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0219	1.1049e-01	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0481	1.2633e-01	4.1000e+00
163	IHT000036	-0.3831	0.2028	-0.0316	1.1838e-01	4.1000e+00

Velocity 1 = 22.0152 (ft/sec) (+/- 1.7049 %)
Velocity 2 = 13.4151 (ft/sec) (+/- 1.7033 %)
Pressure drop = 14.6292 (psi)
Tsat in = 261.0219 (deg F) Tsat out = 231.5609 (deg F)
Phi inner = 0.0048 (kBtu/hr-ft2) (+/- 127.2373 %)
Phi outer = 0.0077 (kBtu/hr-ft2) (+/- 121.9051 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.0535	73.6941	73.2540	1.6546e-01	1.9000e+00
1	TRF000002	73.1115	73.5362	73.3716	1.3194e-01	1.9000e+00
2	TFM000001	87.0221	87.7576	87.3331	1.9741e-01	1.9002e+00
3	TIN000001	86.6382	87.2698	86.9862	1.4447e-01	1.9002e+00
4	TRV000001	86.5949	87.5367	87.1019	2.0086e-01	1.9002e+00
5	TSR000001	86.5342	87.2702	86.8687	1.5551e-01	1.9002e+00
6	TAO020136	78.9152	79.7632	79.4062	2.1375e-01	1.9001e+00
7	TAO050136	87.0159	87.7514	87.4013	1.6897e-01	1.9002e+00
8	TAO070136	87.1921	87.9305	87.4810	1.6913e-01	1.9002e+00
9	TAO080136	86.6093	87.5536	87.1055	1.5685e-01	1.9002e+00
10	TAO090136	87.1143	87.7437	87.5100	1.4557e-01	1.9002e+00
11	TAO100136	87.0305	87.5563	87.3215	1.3614e-01	1.9002e+00
12	TAO105136	87.4251	88.3711	87.8972	1.9800e-01	1.9002e+00
13	TAO110136	87.2361	87.8653	87.6039	1.4668e-01	1.9002e+00
14	TAO115136	87.2615	88.3134	87.6029	2.0754e-01	1.9002e+00
15	TAO120136	86.9572	87.6938	87.3991	1.6337e-01	1.9002e+00
16	TAO125136	87.2807	88.1212	87.6642	1.8731e-01	1.9002e+00
17	TAO130136	86.9670	87.7006	87.2327	1.5106e-01	1.9002e+00
18	TAO120048	74.7074	75.9813	75.2727	3.1402e-01	1.9000e+00
19	TAO130048	86.7628	87.3932	87.0461	1.4734e-01	1.9002e+00
20	TAO120224	86.8859	87.5170	87.1779	1.5518e-01	1.9002e+00
21	TAO130224	86.8246	87.6619	87.1925	1.9667e-01	1.9002e+00
22	TAO120312	86.8744	87.4011	87.1708	1.5595e-01	1.9002e+00
23	TAO130312	86.5857	87.3220	87.0273	1.3905e-01	1.9002e+00
24	TRT020000	87.3177	87.9494	87.6271	1.6289e-01	1.9002e+00
25	TRT070000	87.0840	87.7173	87.4497	1.4626e-01	1.9002e+00
26	TRT100000	87.1771	88.0169	87.6752	1.8618e-01	1.9002e+00
27	TRT120000	87.1504	87.8859	87.4914	1.6826e-01	1.9002e+00
28	TRT125000	78.9274	79.8775	79.4095	1.9362e-01	1.9001e+00
29	TRT130000	86.7927	87.5290	87.2770	1.4833e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5401	2.0426e-01	1.9011e+00
31	TAF050136	87.2560	87.8867	87.5366	1.5784e-01	1.9002e+00
32	TAF070136	80.6398	81.4833	80.9602	1.9555e-01	1.9001e+00
33	TAF080136	87.0962	87.8311	87.3706	1.3839e-01	1.9002e+00
34	TAF090136	73.7394	74.6949	74.2291	2.4485e-01	1.9000e+00
35	TAF100136	87.0514	87.6835	87.3330	1.5850e-01	1.9002e+00
36	TAF105136	86.9593	88.0034	87.5240	2.5301e-01	1.9002e+00
37	TAF110136	86.7402	87.6852	87.2326	1.7030e-01	1.9002e+00
38	TAF115136	87.3936	88.1285	87.7794	1.8699e-01	1.9002e+00
39	TAF120136	87.2309	87.7574	87.4628	1.1366e-01	1.9002e+00
40	TAF125136	87.1776	88.1183	87.6446	2.4497e-01	1.9002e+00
41	TAF130136	87.0238	87.6543	87.3498	1.5941e-01	1.9002e+00
42	TAF120048	87.4736	88.3180	87.8639	1.9894e-01	1.9002e+00
43	TAF130048	87.0471	87.7834	87.3176	1.3406e-01	1.9002e+00
44	TAF120224	87.1500	87.8851	87.4951	1.8307e-01	1.9002e+00
45	TAF130224	86.6116	87.3494	86.9470	1.6484e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0678	1.8300e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1511	3.2805e-02	1.9010e+00
48	TAI130048	87.1042	88.1545	87.6340	2.4710e-01	1.9002e+00
49	TAI130136	86.5744	87.3099	86.9937	1.9031e-01	1.9002e+00
50	TAI130224	87.7887	88.6310	88.1776	2.6757e-01	1.9002e+00
51	TAI130312	86.9851	88.0374	87.4253	1.9989e-01	1.9002e+00
52	TRR130000	85.5539	86.4982	86.0484	2.0871e-01	1.9002e+00
53	TSI000001	78.6516	79.2870	78.9128	1.4327e-01	1.9001e+00
54	TSI000002	74.6338	75.6936	75.1487	2.9709e-01	1.9000e+00
55	TSO000001	72.6592	73.4059	73.0337	1.7294e-01	1.9000e+00
56	TSO000002	81.5022	82.2422	81.9032	1.8292e-01	1.9001e+00
57	TAF020136	86.4388	87.1776	86.8091	1.7134e-01	1.9002e+00
58	TAF120312	86.7173	87.6636	87.2491	2.5302e-01	1.9002e+00
59	TAF130312	86.3528	87.0895	86.7690	1.6474e-01	1.9002e+00
60	EMPTY	0.5127	0.5176	0.5128	6.9754e-04	0.0000e+00
61	EMPTY	0.5273	0.5273	0.5273	0.0000e+00	0.0000e+00
62	EMPTY	0.5322	0.5469	0.5404	2.7091e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5559	1.7263e-03	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3518	9.7615e-04	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3725	2.2287e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3902	1.3508e-03	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4079	2.4621e-03	0.0000e+00
68	EMPTY	0.4150	0.4248	0.4220	2.6370e-03	0.0000e+00
69	EMPTY	0.4395	0.4443	0.4399	1.3508e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4555	2.2287e-03	0.0000e+00
71	EMPTY	0.4736	0.4834	0.4789	1.6787e-03	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4933	6.9754e-04	0.0000e+00
73	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5281	1.8234e-03	0.0000e+00
75	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
76	EMPTY	0.5518	0.5664	0.5613	1.7146e-03	0.0000e+00
77	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
78	EMPTY	0.5957	0.6055	0.6045	2.2241e-03	0.0000e+00
79	EMPTY	0.6250	0.6250	0.6250	0.0000e+00	0.0000e+00
80	PAN020136	53.5673	54.7117	54.1652	2.2098e-01	8.8048e-01
81	PAN050136	99.3778	101.6666	100.6453	4.3405e-01	1.6987e+00
82	PAN070136	55.3017	56.3698	55.7127	2.2719e-01	8.8108e-01
83	PAN080136	26.1748	26.8615	26.5314	1.6583e-01	8.7252e-01
84	PAN090136	23.9799	24.8191	24.5373	1.6423e-01	8.7216e-01
85	PAN100136	30.5339	31.2205	30.9605	1.6253e-01	8.7344e-01
86	PAN105136	16.1017	16.5595	16.3166	1.0173e-01	8.7096e-01
87	PAN110136	20.9303	21.5407	21.2978	1.3367e-01	8.7163e-01
88	PAN115136	23.0342	23.4920	23.3269	1.1268e-01	8.7195e-01
89	PAN120136	25.6004	26.1344	25.8511	1.2063e-01	8.7240e-01
90	PAN125136	15.3300	15.7115	15.5137	9.3335e-02	8.7086e-01
91	PAN130136	6.9715	7.4293	7.2704	1.0883e-01	8.7019e-01
92	PAN120048	17.9542	18.7171	18.3076	1.5705e-01	8.7120e-01
93	PAN130048	39.3913	39.9254	39.6919	1.3965e-01	8.7564e-01
94	PAN120224	41.1930	41.8033	41.4561	1.5184e-01	8.7615e-01
95	PAN130224	30.3637	31.1267	30.7623	1.5200e-01	8.7339e-01
96	PAN120312	20.2254	20.9121	20.5804	1.5924e-01	8.7152e-01
97	PAN130312	36.7034	37.3137	37.0490	1.5659e-01	8.7492e-01
98	PAB000136	35.6962	36.1082	35.9391	8.9724e-02	5.8692e-01
99	PAB100136	25.1245	25.2619	25.2077	4.1445e-02	5.8341e-01
100	PAB125136	21.3656	21.5487	21.4777	4.4872e-02	5.8248e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	35.5642	36.0524	35.7685	1.4823e-01	7.5531e-01
102	PRV000001	18.8641	18.9861	18.8715	2.9569e-02	7.5148e-01
103	PSR000001	19.6691	19.7911	19.7563	5.5717e-02	7.5162e-01
104	PFM000001	73.8760	75.3408	74.6551	3.7382e-01	5.3370e-01
105	PAN000136	400.5876	408.3696	405.0157	1.7714e+00	5.0231e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6356e-06	2.1154e-01
107	EMPTY	0.0049	0.0146	0.0095	1.5467e-03	0.0000e+00
108	EMPTY	-10.0000	2.9541	-6.3317	3.5008e+00	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	0.0025	2.4662e-03	0.0000e+00
112	VPW000001	-0.8526	-0.4620	-0.7848	1.0955e-01	8.1001e-01
113	VPW000002	-0.8451	-0.6498	-0.7893	8.9148e-02	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6888	1.1262e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6599	8.2141e-02	8.1001e-01
116	VPW000005	-1.4686	-1.2733	-1.3530	9.6990e-02	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.5014	1.0188e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.9234	1.1443e+00	8.1004e+00
119	IPW000002	-12.2331	-6.3793	-9.9633	1.3417e+00	8.1004e+00
120	IPW000003	-14.8125	-8.9625	-11.3105	1.3189e+00	8.1005e+00
121	IPW000004	-2.7419	-1.7654	-2.0245	2.6562e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5818	3.0469e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2695	3.8916e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0206	3.1934e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0140	2.9901e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0169	2.8370e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.4819e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0392	7.9736e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0495	8.3705e-02	4.1000e+00
130	IHT000003	-0.2817	0.1089	-0.0346	1.0378e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0394	1.0044e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0710	1.0701e-01	4.1000e+00
133	IHT000006	-0.0601	0.1352	0.0196	9.6990e-02	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0441	6.7148e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.1139	8.2338e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0422	6.7148e-02	4.1000e+00
137	IHT000010	-0.1427	0.0526	-0.0750	9.3931e-02	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0651	8.2338e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.1015	9.2540e-02	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0951	9.9792e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0199	9.1305e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0329	7.8092e-02	4.1000e+00
143	IHT000016	-0.3305	0.0601	-0.0515	1.0548e-01	4.1000e+00
144	IHT000017	-0.5484	0.4282	0.0535	2.5787e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	-0.0054	9.7656e-02	4.1000e+00
146	IHT000019	0.2366	0.4319	0.3004	9.2540e-02	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0564	8.9148e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0283	1.0640e-01	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1233	9.6150e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1294	8.6187e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.3335	1.0378e-01	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2945	9.8483e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0143	8.3705e-02	4.1000e+00
154	IHT000027	-0.2291	0.1615	-0.0179	6.7148e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	-0.0167	1.0299e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.3080	-0.0348	1.0188e-01	4.1000e+00
157	IHT000030	-0.2103	0.1803	0.0288	1.0746e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0349	1.1960e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	-0.0139	1.0548e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	-0.0060	1.0625e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0336	1.1616e-01	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0357	1.0806e-01	4.1000e+00
163	IHT000036	-0.1878	0.0075	-0.0682	9.6150e-02	4.1000e+00

Velocity 1 = 0.028599 (ft/sec)
 Velocity 2 = 0.000000 (ft/sec)
 Pressure Drop = 0.013500 (psi)
 Tsat in = 0.027527 (deg F) Tsat out = 0.005692 (deg F)
 Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0088	0.0120
1	TRF000002	0.0137	0.0187
2	TFM000001	0.0441	0.0505
3	TIN000001	0.0246	0.0283
4	TRV000001	0.0610	0.0700
5	TSR000001	0.0087	0.0100
6	TAO020136	0.0479	0.0604
7	TAO050136	0.0404	0.0462
8	TAO070136	0.0247	0.0282
9	TAO080136	0.0381	0.0437
10	TAO090136	0.0540	0.0617
11	TAO100136	0.0005	0.0006
12	TAO105136	0.0263	0.0299
13	TAO110136	0.0031	0.0035
14	TAO115136	0.0362	0.0413
15	TAO120136	0.0444	0.0508
16	TAO125136	0.0636	0.0725
17	TAO130136	0.0031	0.0036
18	TAO120048	0.0367	0.0488
19	TAO130048	0.0119	0.0137
20	TAO120224	0.0331	0.0380
21	TAO130224	0.0738	0.0846
22	TAO120312	0.0375	0.0430
23	TAO130312	0.0151	0.0174
24	TRT020000	0.0086	0.0098
25	TRT070000	0.0178	0.0204
26	TRT100000	0.0445	0.0507
27	TRT120000	0.0026	0.0030
28	TRT125000	0.2109	0.2649
29	TRT130000	0.0092	0.0105
30	EMPTY	0.0263	0.0666
31	TAF050136	0.0655	0.0748
32	TAF070136	0.0104	0.0128
33	TAF080136	0.0341	0.0390
34	TAF090136	0.0161	0.0217
35	TAF100136	0.0323	0.0370
36	TAF105136	0.0695	0.0795
37	TAF110136	0.0203	0.0233
38	TAF115136	0.0517	0.0589
39	TAF120136	0.0016	0.0018
40	TAF125136	0.0031	0.0035
41	TAF130136	0.0296	0.0339
42	TAF120048	0.0204	0.0232
43	TAF130048	0.0219	0.0251
44	TAF120224	0.0518	0.0592
45	TAF130224	0.0046	0.0053

#	Name	Abs Diff	%Diff
46	EMPTY	0.0308	0.0808
47	EMPTY	0.0367	0.0937
48	TAI130048	0.0022	0.0025
49	TAI130136	0.0104	0.0120
50	TAI130224	0.0260	0.0295
51	TAI130312	0.0424	0.0485
52	TRR130000	0.0392	0.0456
53	TSI000001	0.0431	0.0547
54	TSI000002	0.0674	0.0898
55	TSO000001	0.0267	0.0366
56	TSO000002	0.0194	0.0237
57	TAF020136	0.0158	0.0182
58	TAF120312	0.0337	0.0386
59	TAF130312	0.0064	0.0074
60	EMPTY	0.0001	0.0195
61	EMPTY	0.0001	0.0190
62	EMPTY	0.0010	0.1847
63	EMPTY	0.0005	0.0899
64	EMPTY	0.0001	0.0284
65	EMPTY	0.0010	0.2677
66	EMPTY	0.0003	0.0769
67	EMPTY	0.0008	0.1957
68	EMPTY	0.0010	0.2364
69	EMPTY	0.0003	0.0681
70	EMPTY	0.0010	0.2191
71	EMPTY	0.0007	0.1460
72	EMPTY	0.0001	0.0203
73	EMPTY	0.0003	0.0585
74	EMPTY	0.0010	0.1890
75	EMPTY	0.0001	0.0183
76	EMPTY	0.0002	0.0356
77	EMPTY	0.0002	0.0344
78	EMPTY	0.0009	0.1487
79	EMPTY	0.0006	0.0959
80	PAN020136	0.0089	0.0164
81	PAN050136	0.3153	0.3143
82	PAN070136	0.0631	0.1134
83	PAN080136	0.0386	0.1453
84	PAN090136	0.0325	0.1326
85	PAN100136	0.1184	0.3839
86	PAN105136	0.0216	0.1322
87	PAN110136	0.0501	0.2358
88	PAN115136	0.0455	0.1954
89	PAN120136	0.0600	0.2326
90	PAN125136	0.0494	0.3194
91	PAN130136	0.0120	0.1653
92	PAN120048	0.0895	0.4913
93	PAN130048	0.0900	0.2273
94	PAN120224	0.0877	0.2120
95	PAN130224	0.1224	0.3995
96	PAN120312	0.0559	0.2724
97	PAN130312	0.0725	0.1961
98	PAB000136	0.0168	0.0468
99	PAB100136	0.0090	0.0357
100	PAB125136	0.0023	0.0107

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0520	0.1452
102	PRV000001	0.0145	0.0768
103	PSR000001	0.0018	0.0091
104	PFM000001	0.1950	0.2619
105	PAN000136	0.3723	0.0920
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0003	3.2609
108	EMPTY	0.2555	3.8787
109	EMPTY	0.0001	1.8868
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0009	26.4706
112	VPW000001	0.0483	5.7976
113	VPW000002	0.0145	1.8715
114	VPW000003	0.0187	2.7906
115	VPW000004	0.0113	1.7422
116	VPW000005	0.0140	1.0241
117	VPW000006	0.0009	0.0600
118	IPW000001	0.2382	2.4594
119	IPW000002	0.3186	3.0987
120	IPW000003	0.0860	0.7662
121	IPW000004	0.0052	0.2575
122	IPW000005	0.0211	0.5926
123	IPW000006	0.0381	1.7074
124	EMPTY	0.0001	0.4831
125	EMPTY	0.0007	4.7619
126	EMPTY	0.0001	0.5952
127	EMPTY	0.0016	9.0395
128	IHT000001	0.0240	157.8947
129	IHT000002	0.0002	0.4057
130	IHT000003	0.0068	24.4604
131	IHT000004	0.0124	45.9259
132	IHT000005	0.0285	67.0588
133	IHT000006	0.0258	56.8282
134	IHT000007	0.0270	157.8947
135	IHT000008	0.0460	67.7467
136	IHT000009	0.0198	88.3929
137	IHT000010	0.0209	21.7935
138	IHT000011	0.0243	27.1812
139	IHT000012	0.0013	1.2646
140	IHT000013	0.0186	24.3137
141	IHT000014	0.0035	14.9573
142	IHT000015	0.0036	12.2867
143	IHT000016	0.0056	9.8074
144	IHT000017	0.0036	6.3047
145	IHT000018	0.0123	178.2609
146	IHT000019	0.0208	7.4392
147	IHT000020	0.0078	12.1495
148	IHT000021	0.0215	316.1765
149	IHT000022	0.0054	4.1958
150	IHT000023	0.0202	13.5027
151	IHT000024	0.0458	12.0749
152	IHT000025	0.0096	3.3696
153	IHT000026	0.0193	386.0000
154	IHT000027	0.0310	236.6412
155	IHT000028	0.0188	895.2381

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0127	26.7368
157	IHT000030	0.0008	2.8571
158	IHT000031	0.0217	38.3392
159	IHT000032	0.0134	49.0843
160	IHT000033	0.0214	78.1022
161	IHT000034	0.0117	53.4247
162	IHT000035	0.0124	25.7796
163	IHT000036	0.0366	115.8228

Velocity 1 = 19.9089 (ft/sec) (+/- 1.7212 %)
Velocity 2 = 13.4151 (ft/sec) (+/- 1.7033 %)
Pressure drop = 11.3072 (psi)
Tsat in = 254.6965 (deg F) Tsat out = 230.5400 (deg F)
Phi inner = 0.0045 (kBtu/hr-ft2) (+/- 132.1363 %)
Phi outer = 0.0075 (kBtu/hr-ft2) (+/- 123.5112 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.8399	73.4806	73.2414	1.6508e-01	1.9000e+00
1	TRF000002	73.1115	73.5362	73.3918	1.3862e-01	1.9000e+00
2	TFM000001	87.0221	87.6526	87.3415	1.9545e-01	1.9002e+00
3	TIN000001	86.5335	87.3745	86.9918	1.6566e-01	1.9002e+00
4	TRV000001	86.5949	87.2245	86.9516	1.5717e-01	1.9002e+00
5	TSR000001	86.9526	87.5828	87.2887	1.4847e-01	1.9002e+00
6	TAO020136	79.0209	80.0806	79.5933	2.4584e-01	1.9001e+00
7	TAO050136	87.0159	87.6458	87.4061	1.4830e-01	1.9002e+00
8	TAO070136	86.9816	87.9303	87.4667	2.2126e-01	1.9002e+00
9	TAO080136	86.7144	87.3425	87.0622	1.4430e-01	1.9002e+00
10	TAO090136	87.1143	87.7437	87.4748	1.7235e-01	1.9002e+00
11	TAO100136	86.9249	87.5554	87.3240	1.5455e-01	1.9002e+00
12	TAO105136	87.5300	88.3717	87.8499	2.3174e-01	1.9002e+00
13	TAO110136	87.2355	87.9679	87.6008	1.6950e-01	1.9002e+00
14	TAO115136	87.1559	87.8929	87.5393	2.0792e-01	1.9002e+00
15	TAO120136	87.0622	87.6926	87.3819	1.6017e-01	1.9002e+00
16	TAO125136	87.1758	88.0157	87.6837	1.8157e-01	1.9002e+00
17	TAO130136	86.9665	87.4896	87.2192	1.1783e-01	1.9002e+00
18	TAO120048	75.0250	76.0862	75.5731	2.6187e-01	1.9000e+00
19	TAO130048	86.7622	87.2883	87.0153	1.3597e-01	1.9002e+00
20	TAO120224	86.7809	87.4120	87.1678	1.4325e-01	1.9002e+00
21	TAO130224	86.9297	87.6619	87.2310	2.0531e-01	1.9002e+00
22	TAO120312	86.6633	87.5059	87.1311	1.8562e-01	1.9002e+00
23	TAO130312	86.6908	87.2165	87.0101	1.3600e-01	1.9002e+00
24	TRT020000	87.1065	87.9494	87.5914	1.9961e-01	1.9002e+00
25	TRT070000	87.0835	87.7165	87.4212	1.2612e-01	1.9002e+00
26	TRT100000	87.1771	88.1196	87.7344	2.3634e-01	1.9002e+00
27	TRT120000	87.1510	87.7804	87.5118	1.2047e-01	1.9002e+00
28	TRT125000	76.0886	76.9321	76.5105	1.6806e-01	1.9000e+00
29	TRT130000	87.0017	87.6329	87.2841	1.5229e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.5643	2.2093e-01	1.9011e+00
31	TAF050136	87.1510	87.8853	87.5539	1.8752e-01	1.9002e+00
32	TAF070136	80.8497	81.7968	81.2832	2.0573e-01	1.9001e+00
33	TAF080136	86.9928	87.7255	87.3943	1.6846e-01	1.9002e+00
34	TAF090136	73.9522	75.2247	74.5627	2.7732e-01	1.9000e+00
35	TAF100136	87.0514	87.6830	87.3252	1.5483e-01	1.9002e+00
36	TAF105136	86.8537	87.9001	87.4357	2.7038e-01	1.9002e+00
37	TAF110136	86.9488	87.5796	87.1935	1.4758e-01	1.9002e+00
38	TAF115136	87.3931	88.3378	87.7549	2.1307e-01	1.9002e+00
39	TAF120136	87.2303	87.6519	87.4623	1.1257e-01	1.9002e+00
40	TAF125136	87.0720	88.1183	87.5957	2.5482e-01	1.9002e+00
41	TAF130136	87.0232	87.5494	87.3013	1.4520e-01	1.9002e+00
42	TAF120048	87.3683	88.3188	87.8032	2.0744e-01	1.9002e+00
43	TAF130048	87.0465	87.6779	87.2996	1.4255e-01	1.9002e+00
44	TAF120224	87.1500	87.9897	87.5238	1.7368e-01	1.9002e+00
45	TAF130224	86.6110	87.1383	86.8769	1.4162e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0940	2.3726e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1694	8.3639e-02	1.9010e+00
48	TAI130048	87.1048	88.1551	87.6758	2.5822e-01	1.9002e+00
49	TAI130136	86.6788	87.3086	86.9854	2.1056e-01	1.9002e+00
50	TAI130224	87.3676	88.7359	88.1130	3.3404e-01	1.9002e+00
51	TAI130312	86.9851	87.7217	87.3934	1.9898e-01	1.9002e+00
52	TRR130000	85.6596	86.6017	86.0866	2.0628e-01	1.9002e+00
53	TSI000001	78.8625	79.4960	79.2259	1.4499e-01	1.9001e+00
54	TSI000002	74.5283	75.6936	75.2018	2.7961e-01	1.9000e+00
55	TSO000001	72.5529	73.4057	73.0219	1.7770e-01	1.9000e+00
56	TSO000002	80.8682	81.8192	81.3886	1.9772e-01	1.9001e+00
57	TAF020136	86.3328	87.1776	86.7931	2.0328e-01	1.9002e+00
58	TAF120312	86.7167	87.6629	87.1880	2.7262e-01	1.9002e+00
59	TAF130312	86.4579	86.9839	86.7649	1.4227e-01	1.9002e+00
60	EMPTY	0.5078	0.5127	0.5122	1.4797e-03	0.0000e+00
61	EMPTY	0.5225	0.5273	0.5271	1.1714e-03	0.0000e+00
62	EMPTY	0.5322	0.5420	0.5390	2.5894e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5534	2.3365e-03	0.0000e+00
64	EMPTY	0.3467	0.3564	0.3507	2.1364e-03	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3716	1.4797e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3869	2.1065e-03	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4057	1.3381e-03	0.0000e+00
68	EMPTY	0.4199	0.4199	0.4199	0.0000e+00	0.0000e+00
69	EMPTY	0.4395	0.4395	0.4395	0.0000e+00	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4546	1.4797e-03	0.0000e+00
71	EMPTY	0.4785	0.4785	0.4785	0.0000e+00	0.0000e+00
72	EMPTY	0.4883	0.4980	0.4932	9.8648e-04	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5126	6.9053e-04	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5274	6.9053e-04	0.0000e+00
75	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5611	1.3381e-03	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5810	6.9053e-04	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6034	2.4344e-03	0.0000e+00
79	EMPTY	0.6250	0.6250	0.6250	0.0000e+00	0.0000e+00
80	PAN020136	41.2839	42.1995	41.6975	2.7962e-01	8.7622e-01
81	PAN050136	77.2526	79.3888	78.4001	5.0864e-01	1.6914e+00
82	PAN070136	41.7976	43.1709	42.4889	3.4342e-01	8.7646e-01
83	PAN080136	19.9950	20.7580	20.3612	1.9799e-01	8.7149e-01
84	PAN090136	18.1815	18.7919	18.4577	1.4775e-01	8.7122e-01
85	PAN100136	23.0571	24.0489	23.5774	1.9233e-01	8.7199e-01
86	PAN105136	12.3633	12.8974	12.5327	1.3014e-01	8.7056e-01
87	PAN110136	16.2764	16.8104	16.5724	1.2583e-01	8.7099e-01
88	PAN115136	18.2277	18.8381	18.4886	1.2625e-01	8.7123e-01
89	PAN120136	20.2598	20.6413	20.4643	1.2180e-01	8.7150e-01
90	PAN125136	11.8205	12.3545	12.0921	1.1653e-01	8.7053e-01
91	PAN130136	5.0642	5.6745	5.3388	1.1535e-01	8.7010e-01
92	PAN120048	13.1477	13.7580	13.4879	1.5040e-01	8.7065e-01
93	PAN130048	30.9227	31.6094	31.2401	1.5595e-01	8.7350e-01
94	PAN120224	32.2666	33.2584	32.8464	2.1744e-01	8.7387e-01
95	PAN130224	23.3447	24.0313	23.6651	1.7574e-01	8.7201e-01
96	PAN120312	15.0374	15.8004	15.4143	1.7123e-01	8.7085e-01
97	PAN130312	28.6925	29.3791	29.0099	1.5821e-01	8.7302e-01
98	PAB000136	31.9426	32.5377	32.2694	1.2235e-01	5.8558e-01
99	PAB100136	23.8886	24.0717	24.0003	4.7302e-02	5.8310e-01
100	PAB125136	20.9994	21.1825	21.0781	4.9838e-02	5.8239e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	31.6579	32.3903	32.0925	1.9287e-01	7.5428e-01
102	PRV000001	18.8641	18.8641	18.8641	1.9267e-06	7.5148e-01
103	PSR000001	19.6691	19.7911	19.6886	4.5206e-02	7.5161e-01
104	PFM000001	59.9600	61.7910	60.9982	3.9567e-01	5.2274e-01
105	PAN000136	306.7460	318.6479	313.0448	2.7256e+00	4.9819e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0091	1.7115e-03	0.0000e+00
108	EMPTY	-10.0000	2.0361	-7.2907	3.2114e+00	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	-0.0049	0.0049	0.0020	2.6100e-03	0.0000e+00
112	VPW000001	-0.8526	-0.6573	-0.7784	9.5765e-02	8.1001e-01
113	VPW000002	-1.0404	-0.6498	-0.7943	1.0297e-01	8.1001e-01
114	VPW000003	-0.9240	-0.3380	-0.6544	1.1765e-01	8.1001e-01
115	VPW000004	-0.8752	-0.2892	-0.6408	1.4227e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.3241	1.1027e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.5083	1.3692e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.7633	1.1493e+00	8.1004e+00
119	IPW000002	-12.2331	-6.3793	-9.5794	1.4082e+00	8.1004e+00
120	IPW000003	-12.8625	-7.0125	-11.1075	1.3214e+00	8.1005e+00
121	IPW000004	-2.2536	-1.7654	-2.0388	2.4484e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5412	3.2476e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.1728	3.5908e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0195	3.8206e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0143	2.7621e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0165	2.9413e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	3.2851e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0659	9.6976e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0610	8.4997e-02	4.1000e+00
130	IHT000003	-0.2817	0.3042	-0.0473	1.1161e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0153	1.0410e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0620	1.1027e-01	4.1000e+00
133	IHT000006	-0.2554	0.3305	0.0102	1.0992e-01	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0484	8.2864e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.1109	8.4262e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0302	8.3612e-02	4.1000e+00
137	IHT000010	-0.1427	0.0526	-0.1037	7.8918e-02	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0894	8.1347e-02	4.1000e+00
139	IHT000012	-0.3606	0.2254	-0.1145	1.1027e-01	4.1000e+00
140	IHT000013	-0.0563	0.1390	0.0921	8.4262e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0156	9.5357e-02	4.1000e+00
142	IHT000015	-0.0488	0.1465	-0.0098	7.8918e-02	4.1000e+00
143	IHT000016	-0.3305	0.0601	-0.0610	1.0358e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.0688	3.4930e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0186	1.0799e-01	4.1000e+00
146	IHT000019	0.0413	0.6273	0.2991	1.0763e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0485	7.8523e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0302	1.1327e-01	4.1000e+00
149	IHT000022	-0.1916	0.3944	0.1248	1.3606e-01	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1379	9.6735e-02	4.1000e+00
151	IHT000024	-0.4770	0.1089	-0.3129	1.2701e-01	4.1000e+00
152	IHT000025	0.2028	0.5935	0.2966	1.1327e-01	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0146	8.2864e-02	4.1000e+00
154	IHT000027	-0.2291	0.1615	-0.0221	6.1257e-02	4.1000e+00
155	IHT000028	-0.0526	0.1427	0.0177	9.4702e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.1127	-0.0358	9.3043e-02	4.1000e+00
157	IHT000030	-0.2103	0.5709	0.0358	1.2359e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0137	1.1464e-01	4.1000e+00
159	IHT000032	-0.2930	0.2930	-0.0195	1.1838e-01	4.1000e+00
160	IHT000033	-0.0977	0.0976	-0.0313	9.3461e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0180	1.1334e-01	4.1000e+00
162	IHT000035	-0.3230	0.2629	0.0481	1.0625e-01	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0667	1.1765e-01	4.1000e+00

Velocity 1 = 19.9180 (ft/sec) (+/- 1.7211 %)
 Velocity 2 = 13.4150 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 11.3290 (psi)
 Tsat in = 254.7322 (deg F) Tsat out = 230.5850 (deg F)
 Phi inner = 0.0048 (kBtu/hr-ft2) (+/- 126.7759 %)
 Phi outer = 0.0073 (kBtu/hr-ft2) (+/- 124.6104 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.8399	73.4806	73.2322	1.8156e-01	1.9000e+00
1	TRF000002	73.1115	73.5362	73.3932	1.1781e-01	1.9000e+00
2	TFM000001	86.9171	87.6521	87.2389	1.7331e-01	1.9002e+00
3	TIN000001	86.6382	87.2698	86.9561	1.5119e-01	1.9002e+00
4	TRV000001	86.4912	87.4331	86.9183	2.0380e-01	1.9002e+00
5	TSR000001	87.0576	87.5828	87.2528	1.3382e-01	1.9002e+00
6	TAO020136	79.1271	79.9750	79.6050	2.3801e-01	1.9001e+00
7	TAO050136	87.0159	87.6458	87.3415	1.7554e-01	1.9002e+00
8	TAO070136	86.7712	87.7200	87.3690	2.1345e-01	1.9002e+00
9	TAO080136	86.6087	87.4480	87.0415	1.7978e-01	1.9002e+00
10	TAO090136	87.1137	87.8486	87.4330	1.8279e-01	1.9002e+00
11	TAO100136	86.9249	87.6604	87.2658	1.5701e-01	1.9002e+00
12	TAO105136	87.2148	88.1615	87.8328	2.1745e-01	1.9002e+00
13	TAO110136	87.2355	87.8653	87.5656	1.4664e-01	1.9002e+00
14	TAO115136	87.1562	87.8929	87.5342	2.0239e-01	1.9002e+00
15	TAO120136	86.9566	87.6926	87.3434	1.6673e-01	1.9002e+00
16	TAO125136	87.1758	88.0142	87.6556	1.8547e-01	1.9002e+00
17	TAO130136	86.8650	87.6965	87.1862	1.7146e-01	1.9002e+00
18	TAO120048	75.1316	76.0867	75.6275	2.7068e-01	1.9000e+00
19	TAO130048	86.6585	87.2883	87.0118	1.3182e-01	1.9002e+00
20	TAO120224	86.7809	87.4120	87.1221	1.5420e-01	1.9002e+00
21	TAO130224	86.8241	87.5570	87.1415	1.9957e-01	1.9002e+00
22	TAO120312	86.6633	87.4009	87.0720	1.5295e-01	1.9002e+00
23	TAO130312	86.7947	87.3204	87.0101	1.3743e-01	1.9002e+00
24	TRT020000	87.2121	87.9494	87.5497	1.9468e-01	1.9002e+00
25	TRT070000	87.1890	87.7165	87.3807	1.4070e-01	1.9002e+00
26	TRT100000	87.2815	88.1207	87.6752	1.9337e-01	1.9002e+00
27	TRT120000	87.1504	87.7810	87.4399	1.7104e-01	1.9002e+00
28	TRT125000	76.0881	76.7222	76.4223	1.6487e-01	1.9000e+00
29	TRT130000	87.0017	87.6329	87.2471	1.3644e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.5166	2.3811e-01	1.9011e+00
31	TAF050136	87.1504	87.8847	87.5066	1.6846e-01	1.9002e+00
32	TAF070136	80.8497	81.6914	81.2899	2.2191e-01	1.9001e+00
33	TAF080136	87.0956	87.7255	87.3323	1.3805e-01	1.9002e+00
34	TAF090136	73.7402	75.0128	74.5968	2.8795e-01	1.9000e+00
35	TAF100136	86.9458	87.5780	87.2728	1.6553e-01	1.9002e+00
36	TAF105136	86.9593	87.9001	87.3922	2.1227e-01	1.9002e+00
37	TAF110136	86.7416	87.5796	87.1813	1.6853e-01	1.9002e+00
38	TAF115136	87.2891	88.1285	87.7195	2.0688e-01	1.9002e+00
39	TAF120136	87.1268	87.6519	87.4414	1.2705e-01	1.9002e+00
40	TAF125136	86.8636	88.0134	87.5807	2.8018e-01	1.9002e+00
41	TAF130136	87.0232	87.6543	87.2642	1.3416e-01	1.9002e+00
42	TAF120048	87.2625	88.2125	87.8509	2.0332e-01	1.9002e+00
43	TAF130048	87.0465	87.4682	87.2747	1.1452e-01	1.9002e+00
44	TAF120224	87.0450	87.8851	87.4608	2.1316e-01	1.9002e+00
45	TAF130224	86.6110	87.0332	86.8436	1.1783e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0302	2.0990e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1511	5.7217e-02	1.9010e+00
48	TAI130048	87.1042	88.1551	87.6125	2.9105e-01	1.9002e+00
49	TAI130136	86.5737	87.3086	86.9339	1.9510e-01	1.9002e+00
50	TAI130224	87.6831	88.6310	88.0916	2.4370e-01	1.9002e+00
51	TAI130312	86.9851	87.8270	87.3352	1.9493e-01	1.9002e+00
52	TRR130000	85.5539	86.4982	86.0654	2.2925e-01	1.9002e+00
53	TSI000001	78.9676	79.4966	79.2398	1.5118e-01	1.9001e+00
54	TSI000002	74.6332	75.6936	75.2177	2.3794e-01	1.9000e+00
55	TSO000001	72.5519	73.4057	73.0032	2.0231e-01	1.9000e+00
56	TSO000002	80.9743	81.7142	81.3690	1.8781e-01	1.9001e+00
57	TAF020136	86.3322	87.0716	86.7529	1.6912e-01	1.9002e+00
58	TAF120312	86.7174	87.6623	87.1462	2.2565e-01	1.9002e+00
59	TAF130312	86.2480	86.9839	86.7133	1.8084e-01	1.9002e+00
60	EMPTY	0.5078	0.5127	0.5119	1.8234e-03	0.0000e+00
61	EMPTY	0.5225	0.5273	0.5271	9.7615e-04	0.0000e+00
62	EMPTY	0.5322	0.5420	0.5377	1.8997e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5538	2.4247e-03	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3514	9.7615e-04	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3713	9.7615e-04	0.0000e+00
66	EMPTY	0.3857	0.3955	0.3874	2.5511e-03	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4054	6.9754e-04	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4201	9.7615e-04	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4393	9.7615e-04	0.0000e+00
70	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4784	6.9754e-04	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4930	9.7615e-04	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5126	6.9754e-04	0.0000e+00
74	EMPTY	0.5225	0.5322	0.5273	9.9670e-04	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5466	1.1827e-03	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5612	1.1827e-03	0.0000e+00
77	EMPTY	0.5762	0.5859	0.5812	1.2165e-03	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6024	2.3783e-03	0.0000e+00
79	EMPTY	0.6250	0.6445	0.6255	2.8619e-03	0.0000e+00
80	PAN020136	41.2076	42.1995	41.6997	2.4528e-01	8.7622e-01
81	PAN050136	77.5578	79.3888	78.5107	3.4758e-01	1.6914e+00
82	PAN070136	41.9502	43.0946	42.5294	2.9912e-01	8.7647e-01
83	PAN080136	19.9187	20.6817	20.3702	1.7330e-01	8.7149e-01
84	PAN090136	18.1815	18.7919	18.5178	1.5173e-01	8.7123e-01
85	PAN100136	23.2859	23.8963	23.6332	1.4779e-01	8.7200e-01
86	PAN105136	12.2870	12.7448	12.5143	1.1705e-01	8.7056e-01
87	PAN110136	16.3527	16.8867	16.6033	1.2263e-01	8.7099e-01
88	PAN115136	18.3040	18.6855	18.4955	1.0345e-01	8.7123e-01
89	PAN120136	20.1835	20.7176	20.4980	1.0049e-01	8.7151e-01
90	PAN125136	11.7442	12.4308	12.1101	1.2061e-01	8.7053e-01
91	PAN130136	5.0642	5.6745	5.3522	1.2090e-01	8.7010e-01
92	PAN120048	13.0714	13.9106	13.5042	1.6138e-01	8.7065e-01
93	PAN130048	30.8464	31.5331	31.2793	1.7577e-01	8.7351e-01
94	PAN120224	32.3429	33.1058	32.8302	1.7538e-01	8.7386e-01
95	PAN130224	23.4210	24.1839	23.7791	1.9712e-01	8.7203e-01
96	PAN120312	15.0374	15.7241	15.4438	1.4391e-01	8.7086e-01
97	PAN130312	28.7688	29.3791	29.0522	1.3215e-01	8.7303e-01
98	PAB000136	32.0799	32.4919	32.2891	9.8446e-02	5.8559e-01
99	PAB100136	23.9343	24.1175	24.0072	4.5698e-02	5.8310e-01
100	PAB125136	20.9994	21.1825	21.0956	4.6009e-02	5.8239e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	31.6579	32.6345	32.1313	1.9242e-01	7.5429e-01
102	PRV000001	18.7420	18.8641	18.8566	2.9569e-02	7.5148e-01
103	PSR000001	19.6691	19.7911	19.7114	5.8707e-02	7.5162e-01
104	PFM000001	60.3262	61.9741	61.0549	3.4760e-01	5.2278e-01
105	PAN000136	308.1193	317.7324	313.6498	2.4274e+00	4.9821e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6356e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0092	1.6172e-03	0.0000e+00
108	EMPTY	-10.0000	1.3867	-7.0167	3.3551e+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	0.0020	2.4247e-03	0.0000e+00
112	VPW000001	-1.0479	-0.6573	-0.7729	1.0486e-01	8.1001e-01
113	VPW000002	-1.0404	-0.6498	-0.7733	1.0315e-01	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6968	1.0044e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6400	8.8965e-02	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.3291	1.1960e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.5174	1.1546e-01	8.1005e-01
118	IPW000001	-11.6766	-5.8195	-9.5648	1.0420e+00	8.1004e+00
119	IPW000002	-12.2331	-6.3793	-9.4456	1.1949e+00	8.1003e+00
120	IPW000003	-12.8625	-7.0125	-10.9921	1.3177e+00	8.1005e+00
121	IPW000004	-2.2536	-1.2771	-1.9846	2.6485e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5918	3.2559e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2794	3.8391e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0199	2.7902e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.3047e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0170	2.6600e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0165	3.1228e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0392	7.9736e-02	4.1000e+00
129	IHT000002	-0.2329	0.3531	-0.0455	8.8783e-02	4.1000e+00
130	IHT000003	-0.2817	0.1089	-0.0226	1.0076e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0155	8.8783e-02	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0591	9.3759e-02	4.1000e+00
133	IHT000006	-0.0601	0.1352	0.0196	9.6990e-02	4.1000e+00
134	IHT000007	-0.2554	0.3305	-0.0362	9.4620e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0860	9.5132e-02	4.1000e+00
136	IHT000009	-0.4169	0.1690	-0.0303	9.3412e-02	4.1000e+00
137	IHT000010	-0.3380	0.0526	-0.0869	9.7656e-02	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0730	7.6412e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0895	9.6150e-02	4.1000e+00
140	IHT000013	-0.0563	0.1390	0.0832	8.9148e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0199	7.1817e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0488	6.9053e-02	4.1000e+00
143	IHT000016	-0.1352	0.0601	-0.0635	9.5132e-02	4.1000e+00
144	IHT000017	-0.3530	0.4282	0.0416	2.4734e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	-0.0173	9.7490e-02	4.1000e+00
146	IHT000019	0.2366	0.6273	0.3482	1.0548e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0125	1.0746e-01	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0602	1.0836e-01	4.1000e+00
149	IHT000022	0.0037	0.3944	0.1512	1.0941e-01	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1493	9.6318e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.3056	7.5986e-02	4.1000e+00
152	IHT000025	0.2028	0.3981	0.3304	9.3931e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0103	7.8092e-02	4.1000e+00
154	IHT000027	-0.2291	0.1615	0.0021	8.6187e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	-0.0047	1.0941e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.1127	-0.0149	9.3931e-02	4.1000e+00
157	IHT000030	-0.2103	0.1803	0.0488	1.0836e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0150	1.1546e-01	4.1000e+00
159	IHT000032	-0.2930	0.2930	-0.0139	1.1960e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	-0.0060	1.0625e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0176	1.3369e-01	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0477	1.0731e-01	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0483	1.1276e-01	4.1000e+00

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Velocity 1 = 0.009100 (ft/sec)

Velocity 2 = 0.000100 (ft/sec)

Pressure Drop = 0.021800 (psi)

Tsat in = 0.035690 (deg F) Tsat out = 0.045013 (deg F)

Phi inner = 0.000300 (kBtu/hr-ft2) Phi outer = 0.000200 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0092	0.0126
1	TRF000002	0.0014	0.0019
2	TFM000001	0.1026	0.1175
3	TIN000001	0.0357	0.0410
4	TRV000001	0.0333	0.0383
5	TSR000001	0.0359	0.0411
6	TAO020136	0.0117	0.0147
7	TAO050136	0.0646	0.0739
8	TAO070136	0.0977	0.1117
9	TAO080136	0.0207	0.0238
10	TAO090136	0.0418	0.0478
11	TAO100136	0.0582	0.0666
12	TAO105136	0.0171	0.0195
13	TAO110136	0.0352	0.0402
14	TAO115136	0.0051	0.0058
15	TAO120136	0.0385	0.0441
16	TAO125136	0.0281	0.0320
17	TAO130136	0.0330	0.0378
18	TAO120048	0.0544	0.0720
19	TAO130048	0.0035	0.0040
20	TAO120224	0.0457	0.0524
21	TAO130224	0.0895	0.1026
22	TAO120312	0.0591	0.0678
23	TAO130312	0.0000	0.0000
24	TRT020000	0.0417	0.0476
25	TRT070000	0.0405	0.0463
26	TRT100000	0.0592	0.0675
27	TRT120000	0.0719	0.0822
28	TRT125000	0.0882	0.1153
29	TRT130000	0.0370	0.0424
30	EMPTY	0.0477	0.1206
31	TAF050136	0.0473	0.0540
32	TAF070136	0.0067	0.0082
33	TAF080136	0.0620	0.0709
34	TAF090136	0.0341	0.0457
35	TAF100136	0.0524	0.0600
36	TAF105136	0.0435	0.0498
37	TAF110136	0.0122	0.0140
38	TAF115136	0.0354	0.0403
39	TAF120136	0.0209	0.0239
40	TAF125136	0.0150	0.0171
41	TAF130136	0.0371	0.0425
42	TAF120048	0.0477	0.0543
43	TAF130048	0.0249	0.0285
44	TAF120224	0.0630	0.0720
45	TAF130224	0.0333	0.0383

#	Name	Abs Diff	%Diff
46	EMPTY	0.0638	0.1675
47	EMPTY	0.0183	0.0467
48	TAI130048	0.0633	0.0722
49	TAI130136	0.0515	0.0592
50	TAI130224	0.0214	0.0243
51	TAI130312	0.0582	0.0666
52	TRR130000	0.0212	0.0246
53	TSI000001	0.0139	0.0175
54	TSI000002	0.0159	0.0211
55	TSO000001	0.0187	0.0256
56	TSO000002	0.0196	0.0241
57	TAF020136	0.0402	0.0463
58	TAF120312	0.0418	0.0479
59	TAF130312	0.0516	0.0595
60	EMPTY	0.0003	0.0586
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0013	0.2412
63	EMPTY	0.0004	0.0723
64	EMPTY	0.0007	0.1996
65	EMPTY	0.0003	0.0807
66	EMPTY	0.0005	0.1292
67	EMPTY	0.0003	0.0739
68	EMPTY	0.0002	0.0476
69	EMPTY	0.0002	0.0455
70	EMPTY	0.0005	0.1100
71	EMPTY	0.0001	0.0209
72	EMPTY	0.0002	0.0406
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0001	0.0190
75	EMPTY	0.0003	0.0549
76	EMPTY	0.0001	0.0178
77	EMPTY	0.0002	0.0344
78	EMPTY	0.0010	0.1657
79	EMPTY	0.0005	0.0800
80	PAN020136	0.0022	0.0053
81	PAN050136	0.1106	0.1411
82	PAN070136	0.0405	0.0953
83	PAN080136	0.0090	0.0442
84	PAN090136	0.0601	0.3256
85	PAN100136	0.0558	0.2367
86	PAN105136	0.0184	0.1468
87	PAN110136	0.0309	0.1865
88	PAN115136	0.0069	0.0373
89	PAN120136	0.0337	0.1647
90	PAN125136	0.0180	0.1489
91	PAN130136	0.0134	0.2510
92	PAN120048	0.0163	0.1209
93	PAN130048	0.0392	0.1255
94	PAN120224	0.0162	0.0493
95	PAN130224	0.1140	0.4817
96	PAN120312	0.0295	0.1914
97	PAN130312	0.0423	0.1458
98	PAB000136	0.0197	0.0610
99	PAB100136	0.0069	0.0288
100	PAB125136	0.0175	0.0830

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0388	0.1209
102	PRV000001	0.0075	0.0398
103	PSR000001	0.0228	0.1158
104	PFM000001	0.0567	0.0930
105	PAN000136	0.6050	0.1933
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.0989
108	EMPTY	0.2740	3.7582
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0055	0.7066
113	VPW000002	0.0210	2.6438
114	VPW000003	0.0424	6.4792
115	VPW000004	0.0008	0.1248
116	VPW000005	0.0050	0.3776
117	VPW000006	0.0091	0.6033
118	IPW000001	0.1985	2.0331
119	IPW000002	0.1338	1.3968
120	IPW000003	0.1154	1.0389
121	IPW000004	0.0542	2.6584
122	IPW000005	0.0506	1.4289
123	IPW000006	0.1066	4.9061
124	EMPTY	0.0004	2.0513
125	EMPTY	0.0004	2.7972
126	EMPTY	0.0005	3.0303
127	EMPTY	0.0002	1.1976
128	IHT000001	0.0267	40.5159
129	IHT000002	0.0155	25.4098
130	IHT000003	0.0247	52.2199
131	IHT000004	0.0002	1.3072
132	IHT000005	0.0029	4.6774
133	IHT000006	0.0094	92.1569
134	IHT000007	0.0122	25.2066
135	IHT000008	0.0249	22.4527
136	IHT000009	0.0001	0.3311
137	IHT000010	0.0168	16.2006
138	IHT000011	0.0164	18.3445
139	IHT000012	0.0250	21.8341
140	IHT000013	0.0089	9.6634
141	IHT000014	0.0043	27.5641
142	IHT000015	0.0390	397.9592
143	IHT000016	0.0025	4.0984
144	IHT000017	0.0272	39.5349
145	IHT000018	0.0359	193.0108
146	IHT000019	0.0491	16.4159
147	IHT000020	0.0360	74.2268
148	IHT000021	0.0300	99.3377
149	IHT000022	0.0264	21.1538
150	IHT000023	0.0114	8.2669
151	IHT000024	0.0073	2.3330
152	IHT000025	0.0338	11.3958
153	IHT000026	0.0043	29.4521
154	IHT000027	0.0242	109.5023
155	IHT000028	0.0224	126.5537

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0209	58.3799
157	IHT000030	0.0130	36.3129
158	IHT000031	0.0013	9.4890
159	IHT000032	0.0056	28.7180
160	IHT000033	0.0253	80.8307
161	IHT000034	0.0004	2.2222
162	IHT000035	0.0004	0.8316
163	IHT000036	0.0184	27.5862

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sum1

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Velocity 1 = 17.9988 (ft/sec) (+/- 1.7454 %)
Velocity 2 = 13.4151 (ft/sec) (+/- 1.7033 %)
Pressure drop = 8.5552 (psi)
Tsats in = 249.0394 (deg F) Tsats out = 229.6827 (deg F)
Phi inner = 0.0045 (kBtu/hr-ft2) (+/- 131.4903 %)
Phi outer = 0.0077 (kBtu/hr-ft2) (+/- 121.9971 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.8399	73.6941	73.2970	1.8309e-01	1.9000e+00
1	TRF000002	73.1115	73.7485	73.4216	1.3019e-01	1.9000e+00
2	TFM000001	86.9179	87.7576	87.3124	1.9836e-01	1.9002e+00
3	TIN000001	86.6377	87.2698	86.9751	1.4892e-01	1.9002e+00
4	TRV000001	86.8041	87.5387	87.0858	1.6732e-01	1.9002e+00
5	TSR000001	86.8479	87.5828	87.1970	1.5664e-01	1.9002e+00
6	TAO020136	79.3390	80.3984	79.8390	2.5946e-01	1.9001e+00
7	TAO050136	87.0153	87.6458	87.3313	1.6406e-01	1.9002e+00
8	TAO070136	86.9818	87.8250	87.3992	1.9158e-01	1.9002e+00
9	TAO080136	86.6093	87.4480	86.9916	2.0725e-01	1.9002e+00
10	TAO090136	87.0081	87.7437	87.4248	1.7082e-01	1.9002e+00
11	TAO100136	86.9243	87.5563	87.2320	1.6834e-01	1.9002e+00
12	TAO105136	87.2142	88.2664	87.8541	2.1760e-01	1.9002e+00
13	TAO110136	87.2355	87.8653	87.5555	1.6655e-01	1.9002e+00
14	TAO115136	87.1562	87.9979	87.5436	2.2723e-01	1.9002e+00
15	TAO120136	86.8522	87.5883	87.3106	1.6827e-01	1.9002e+00
16	TAO125136	87.1752	88.2251	87.6588	2.2443e-01	1.9002e+00
17	TAO130136	86.7600	87.4937	87.1289	1.6515e-01	1.9002e+00
18	TAO120048	75.1316	76.2986	75.7937	2.9731e-01	1.9000e+00
19	TAO130048	86.7622	87.2896	87.0030	1.3941e-01	1.9002e+00
20	TAO120224	86.7809	87.5170	87.1134	1.4781e-01	1.9002e+00
21	TAO130224	86.8241	87.6619	87.1691	2.0690e-01	1.9002e+00
22	TAO120312	86.6639	87.6114	87.0765	1.8152e-01	1.9002e+00
23	TAO130312	86.5851	87.3220	86.9349	1.7183e-01	1.9002e+00
24	TRT020000	87.0014	87.9494	87.5829	1.8332e-01	1.9002e+00
25	TRT070000	87.0835	87.6107	87.3450	1.2281e-01	1.9002e+00
26	TRT100000	87.1765	88.0152	87.6676	2.0598e-01	1.9002e+00
27	TRT120000	87.1498	87.6762	87.4533	1.6540e-01	1.9002e+00
28	TRT125000	75.0345	75.5645	75.3144	1.5387e-01	1.9000e+00
29	TRT130000	86.7921	87.5290	87.2047	1.7103e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.5000	2.1858e-01	1.9011e+00
31	TAF050136	87.1510	87.9902	87.5333	1.8695e-01	1.9002e+00
32	TAF070136	81.0596	82.0065	81.5018	2.0726e-01	1.9001e+00
33	TAF080136	86.8872	87.7250	87.3114	1.9280e-01	1.9002e+00
34	TAF090136	74.0570	75.1195	74.6350	2.9084e-01	1.9000e+00
35	TAF100136	86.9458	87.6835	87.2874	1.6558e-01	1.9002e+00
36	TAF105136	86.8543	87.9001	87.4071	2.1937e-01	1.9002e+00
37	TAF110136	86.7396	87.5796	87.1854	1.6635e-01	1.9002e+00
38	TAF115136	87.2885	88.0240	87.6421	2.1589e-01	1.9002e+00
39	TAF120136	87.0212	87.7574	87.3790	1.6431e-01	1.9002e+00
40	TAF125136	86.8636	88.0128	87.5378	2.6192e-01	1.9002e+00
41	TAF130136	87.0232	87.5504	87.2932	1.2965e-01	1.9002e+00
42	TAF120048	87.2631	88.2125	87.7524	2.3139e-01	1.9002e+00
43	TAF130048	86.8367	87.5738	87.2956	1.5873e-01	1.9002e+00
44	TAF120224	87.0450	87.8851	87.4569	1.8838e-01	1.9002e+00
45	TAF130224	86.3999	87.2438	86.8769	1.5686e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1078	1.9287e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1786	8.0489e-02	1.9010e+00
48	TAI130048	86.8948	88.2600	87.6718	2.9012e-01	1.9002e+00
49	TAI130136	86.4694	87.3086	86.9396	2.1219e-01	1.9002e+00
50	TAI130224	87.5776	88.6310	88.0667	2.8354e-01	1.9002e+00
51	TAI130312	86.8801	87.8272	87.3051	2.1780e-01	1.9002e+00
52	TRR130000	85.5539	86.6023	86.1330	2.5236e-01	1.9002e+00
53	TSI000001	79.1779	79.9192	79.5887	1.7433e-01	1.9001e+00
54	TSI000002	75.1629	76.1163	75.5700	2.5612e-01	1.9000e+00
55	TSO000001	72.8725	73.7259	73.3633	2.3401e-01	1.9000e+00
56	TSO000002	81.6077	82.3472	81.9375	1.6613e-01	1.9001e+00
57	TAF020136	86.3322	87.0716	86.7549	1.5970e-01	1.9002e+00
58	TAF120312	86.6130	87.7679	87.1882	2.8240e-01	1.9002e+00
59	TAF130312	86.3528	87.0895	86.6979	1.6997e-01	1.9002e+00
60	EMPTY	0.5029	0.5127	0.5105	2.6396e-03	0.0000e+00
61	EMPTY	0.5225	0.5273	0.5248	2.4642e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5374	1.1714e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5521	1.1714e-03	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3500	2.3008e-03	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3712	6.9053e-04	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3865	1.8082e-03	0.0000e+00
67	EMPTY	0.4053	0.4053	0.4053	0.0000e+00	0.0000e+00
68	EMPTY	0.4199	0.4199	0.4199	0.0000e+00	0.0000e+00
69	EMPTY	0.4395	0.4492	0.4396	1.3811e-03	0.0000e+00
70	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4782	1.1714e-03	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4927	1.4797e-03	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5124	1.1714e-03	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5274	6.9053e-04	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5464	1.4797e-03	0.0000e+00
76	EMPTY	0.5518	0.5615	0.5607	2.0598e-03	0.0000e+00
77	EMPTY	0.5762	0.5859	0.5805	1.8821e-03	0.0000e+00
78	EMPTY	0.5957	0.6055	0.6010	1.6624e-03	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6251	6.9053e-04	0.0000e+00
80	PAN020136	32.5864	33.7308	33.2105	2.1117e-01	8.7395e-01
81	PAN050136	56.8058	58.9420	57.7549	4.1162e-01	1.6862e+00
82	PAN070136	30.9639	32.2609	31.6566	2.4363e-01	8.7359e-01
83	PAN080136	14.6544	15.4174	14.9596	1.7909e-01	8.7080e-01
84	PAN090136	13.2224	13.9091	13.5596	1.5343e-01	8.7066e-01
85	PAN100136	17.350	18.0979	17.7226	1.5324e-01	8.7113e-01
86	PAN105136	9.0827	9.6167	9.3756	1.1259e-01	8.7032e-01
87	PAN110136	12.6143	13.1483	12.8767	1.1955e-01	8.7060e-01
88	PAN115136	14.1078	14.6419	14.4206	1.0817e-01	8.7075e-01
89	PAN120136	15.8348	16.2925	16.0820	9.8165e-02	8.7093e-01
90	PAN125136	8.9213	9.3028	9.1410	9.5813e-02	8.7030e-01
91	PAN130136	3.5383	3.9960	3.7229	1.0577e-01	8.7005e-01
92	PAN120048	9.0278	9.8670	9.4932	1.3894e-01	8.7032e-01
93	PAN130048	23.6748	24.3614	24.0593	1.4124e-01	8.7208e-01
94	PAN120224	25.0949	25.8579	25.5008	1.5058e-01	8.7233e-01
95	PAN130224	17.5464	18.2330	17.8591	1.3371e-01	8.7114e-01
96	PAN120312	10.7650	11.3753	11.1281	1.3487e-01	8.7044e-01
97	PAN130312	21.9786	22.5127	22.2487	1.2636e-01	8.7178e-01
98	PAB000136	29.1044	29.4706	29.2793	8.3588e-02	5.8460e-01
99	PAB100136	22.9273	23.1104	23.0234	5.0865e-02	5.8285e-01
100	PAB125136	20.6789	20.8620	20.7467	4.7374e-02	5.8231e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	28.8503	29.5827	29.1872	1.5512e-01	7.5354e-01
102	PRV000001	18.9861	19.2303	19.0960	4.4460e-02	7.5152e-01
103	PSR000001	19.6691	19.7911	19.7301	6.1655e-02	7.5162e-01
104	PFM000001	49.3399	50.4385	49.8049	2.6408e-01	5.1527e-01
105	PAN000136	230.7573	240.8281	236.8547	2.2718e+00	4.9555e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	-0.0049	0.0098	0.0083	2.8334e-03	0.0000e+00
108	EMPTY	-10.0000	2.0996	-6.5046	3.5063e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0046	1.5314e-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	VPW000001	-0.8526	-0.6573	-0.8174	7.5798e-02	8.1001e-01
113	VPW000002	-0.8451	-0.6498	-0.7709	9.5765e-02	8.1001e-01
114	VPW000003	-0.9240	-0.3380	-0.6622	1.0885e-01	8.1001e-01
115	VPW000004	-0.8752	-0.2892	-0.6408	1.3087e-01	8.1001e-01
116	VPW000005	-1.4686	-1.2733	-1.3397	9.3461e-02	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4692	1.1049e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.7633	1.2775e+00	8.1004e+00
119	IPW000002	-12.2331	-8.3306	-10.2428	1.4479e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-11.0295	1.2085e+00	8.1005e+00
121	IPW000004	-2.2536	-1.2771	-1.9997	2.6543e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5119	2.8741e-01	2.0002e+00
123	IPW000006	-2.8076	-1.8310	-2.2021	3.2057e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0208	3.2434e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.7124e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0171	3.4527e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0156	2.7902e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0425	8.2393e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0298	6.7888e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0239	9.2034e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0427	1.0942e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0542	9.8963e-02	4.1000e+00
133	IHT000006	-0.2554	0.3305	0.0415	1.1327e-01	4.1000e+00
134	IHT000007	-0.0601	0.1352	-0.0445	5.3525e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0914	9.3461e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0263	1.0440e-01	4.1000e+00
137	IHT000010	-0.3380	0.0526	-0.1037	8.8233e-02	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0738	8.5454e-02	4.1000e+00
139	IHT000012	-0.3606	0.0301	-0.1028	1.0014e-01	4.1000e+00
140	IHT000013	-0.0563	0.1390	0.0999	7.8918e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0078	8.7880e-02	4.1000e+00
142	IHT000015	-0.0488	0.1465	0.0019	8.6541e-02	4.1000e+00
143	IHT000016	-0.1352	0.2554	-0.0297	1.0595e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.0766	2.7621e-01	4.1000e+00
145	IHT000018	-0.1728	0.4131	0.0381	1.2378e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2640	7.9017e-02	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0642	7.8523e-02	4.1000e+00
148	IHT000021	-0.0714	0.1240	0.0185	9.8332e-02	4.1000e+00
149	IHT000022	-0.1916	0.1991	0.1092	1.0595e-01	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1457	7.1136e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.3520	1.0992e-01	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2888	9.7935e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	-0.0050	9.9512e-02	4.1000e+00
154	IHT000027	-0.2291	0.1615	-0.0182	6.6498e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	0.0099	1.0014e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.1127	-0.0319	9.5112e-02	4.1000e+00
157	IHT000030	-0.0150	0.1803	0.0475	9.2034e-02	4.1000e+00
158	IHT000031	-0.3418	0.2441	-0.0449	1.1327e-01	4.1000e+00
159	IHT000032	-0.0976	0.0977	-0.0078	9.8332e-02	4.1000e+00
160	IHT000033	-0.2930	0.2930	-0.0274	1.0992e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0180	9.8648e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0520	8.6810e-02	4.1000e+00
163	IHT000036	-0.1878	0.5935	-0.0355	1.3833e-01	4.1000e+00

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Velocity 1 = 18.0189 (ft/sec) (+/- 1.7451 %)
Velocity 2 = 13.4150 (ft/sec) (+/- 1.7033 %)
Pressure drop = 8.5526 (psi)
Tsats in = 248.9874 (deg F) Tsats out = 229.6644 (deg F)
Phi inner = 0.0045 (kBtu/hr-ft2) (+/- 131.7679 %)
Phi outer = 0.0074 (kBtu/hr-ft2) (+/- 123.6901 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.8399	73.4806	73.2322	1.7625e-01	1.9000e+00
1	TRF000002	73.1115	73.7485	73.3759	1.5343e-01	1.9000e+00
2	TFM000001	86.9171	87.6521	87.2517	1.8017e-01	1.9002e+00
3	TIN000001	86.6382	87.2698	86.9003	1.5367e-01	1.9002e+00
4	TRV000001	86.4898	87.5387	87.0463	2.3174e-01	1.9002e+00
5	TSR000001	86.7429	87.5828	87.1631	1.8304e-01	1.9002e+00
6	TAO020136	79.4446	80.2922	79.8643	2.1067e-01	1.9001e+00
7	TAO050136	86.8070	87.6452	87.2520	1.5370e-01	1.9002e+00
8	TAO070136	86.8768	87.8250	87.3260	1.9930e-01	1.9002e+00
9	TAO080136	86.5080	87.3430	86.9435	1.9450e-01	1.9002e+00
10	TAO090136	87.0081	87.8486	87.4115	2.2298e-01	1.9002e+00
11	TAO100136	86.8193	87.6604	87.2187	1.5463e-01	1.9002e+00
12	TAO105136	87.4245	88.0562	87.7899	1.8976e-01	1.9002e+00
13	TAO110136	87.1328	87.8653	87.5103	1.5386e-01	1.9002e+00
14	TAO115136	86.9462	87.7877	87.4699	2.1629e-01	1.9002e+00
15	TAO120136	86.7466	87.7982	87.2577	2.0247e-01	1.9002e+00
16	TAO125136	87.1758	88.2251	87.6470	2.1121e-01	1.9002e+00
17	TAO130136	86.7600	87.3882	87.1143	1.6782e-01	1.9002e+00
18	TAO120048	75.0256	76.2980	75.7400	2.5780e-01	1.9000e+00
19	TAO130048	86.5529	87.1840	86.9477	1.3830e-01	1.9002e+00
20	TAO120224	86.6759	87.4120	87.0578	1.6022e-01	1.9002e+00
21	TAO130224	86.6165	87.5570	87.1159	2.4137e-01	1.9002e+00
22	TAO120312	86.6633	87.5057	87.0419	1.8343e-01	1.9002e+00
23	TAO130312	86.5851	87.2165	86.9117	1.7054e-01	1.9002e+00
24	TRT020000	87.2121	87.9494	87.5368	1.6764e-01	1.9002e+00
25	TRT070000	87.0832	87.7165	87.3376	1.5951e-01	1.9002e+00
26	TRT100000	87.0709	87.9113	87.5897	1.8107e-01	1.9002e+00
27	TRT120000	87.0448	87.7804	87.3629	1.7089e-01	1.9002e+00
28	TRT125000	74.8243	75.7752	75.3088	2.1027e-01	1.9000e+00
29	TRT130000	86.7921	87.4234	87.1786	1.6117e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.5354	2.0536e-01	1.9011e+00
31	TAF050136	86.9418	87.7812	87.4895	1.7168e-01	1.9002e+00
32	TAF070136	80.9535	82.0065	81.4225	2.2322e-01	1.9001e+00
33	TAF080136	86.8872	87.7255	87.2939	1.7203e-01	1.9002e+00
34	TAF090136	74.0576	75.2247	74.5189	2.5487e-01	1.9000e+00
35	TAF100136	86.9458	87.7885	87.2857	2.0193e-01	1.9002e+00
36	TAF105136	86.8543	87.6919	87.3411	2.3411e-01	1.9002e+00
37	TAF110136	86.8452	87.3705	87.1343	1.4149e-01	1.9002e+00
38	TAF115136	87.1842	88.0240	87.6511	2.0546e-01	1.9002e+00
39	TAF120136	87.0212	87.6519	87.3688	1.5627e-01	1.9002e+00
40	TAF125136	87.0726	88.0134	87.4871	2.5825e-01	1.9002e+00
41	TAF130136	87.0232	87.4449	87.2385	1.2708e-01	1.9002e+00
42	TAF120048	87.2625	88.2119	87.6785	2.5983e-01	1.9002e+00
43	TAF130048	86.8373	87.4682	87.2448	1.4663e-01	1.9002e+00
44	TAF120224	87.0444	87.8851	87.3881	1.7383e-01	1.9002e+00
45	TAF130224	86.6110	87.1388	86.8350	1.3712e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0725	2.1192e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1699	7.0231e-02	1.9010e+00
48	TAI130048	86.9987	88.0496	87.5182	2.7404e-01	1.9002e+00
49	TAI130136	86.3638	87.4136	86.8441	2.0203e-01	1.9002e+00
50	TAI130224	87.3676	88.5249	88.0015	3.0496e-01	1.9002e+00
51	TAI130312	86.8795	87.6168	87.2408	2.0260e-01	1.9002e+00
52	TRR130000	85.7633	86.4982	86.0910	1.9218e-01	1.9002e+00
53	TSI000001	79.1779	79.8130	79.5193	1.7017e-01	1.9001e+00
54	TSI000002	75.0569	75.9049	75.5284	2.2033e-01	1.9000e+00
55	TSO000001	72.8725	73.8325	73.2907	2.1855e-01	1.9000e+00
56	TSO000002	81.2905	82.1362	81.8041	1.9164e-01	1.9001e+00
57	TAF020136	86.3328	87.0716	86.7141	1.6665e-01	1.9002e+00
58	TAF120312	86.5073	87.5581	87.0606	2.7600e-01	1.9002e+00
59	TAF130312	86.3522	86.9839	86.6662	1.5700e-01	1.9002e+00
60	EMPTY	0.5078	0.5127	0.5095	2.3483e-03	0.0000e+00
61	EMPTY	0.5225	0.5273	0.5249	2.4662e-03	0.0000e+00
62	EMPTY	0.5322	0.5420	0.5371	9.9670e-04	0.0000e+00
63	EMPTY	0.5469	0.5566	0.5519	1.2165e-03	0.0000e+00
64	EMPTY	0.3467	0.3564	0.3511	1.7954e-03	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3712	6.9754e-04	0.0000e+00
66	EMPTY	0.3809	0.3906	0.3867	2.2241e-03	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4056	1.1827e-03	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4200	6.9754e-04	0.0000e+00
69	EMPTY	0.4395	0.4395	0.4395	0.0000e+00	0.0000e+00
70	EMPTY	0.4492	0.4541	0.4540	6.9754e-04	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4784	6.9754e-04	0.0000e+00
72	EMPTY	0.4883	0.4980	0.4932	9.9670e-04	0.0000e+00
73	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
74	EMPTY	0.5273	0.5371	0.5275	1.3951e-03	0.0000e+00
75	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5614	6.9754e-04	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5809	9.7615e-04	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6023	2.3483e-03	0.0000e+00
79	EMPTY	0.6250	0.6250	0.6250	0.0000e+00	0.0000e+00
80	PAN020136	32.6627	33.5020	33.1812	1.8425e-01	8.7395e-01
81	PAN050136	56.6532	58.4843	57.7120	3.5840e-01	1.6862e+00
82	PAN070136	30.8113	32.1083	31.6023	2.5097e-01	8.7358e-01
83	PAN080136	14.5781	15.2648	14.9238	1.5890e-01	8.7080e-01
84	PAN090136	13.3750	13.9854	13.6132	1.2995e-01	8.7067e-01
85	PAN100136	17.2587	18.2505	17.7601	1.7960e-01	8.7113e-01
86	PAN105136	9.1590	9.6167	9.3754	1.0014e-01	8.7032e-01
87	PAN110136	12.6143	12.9957	12.8525	9.1649e-02	8.7059e-01
88	PAN115136	14.1078	14.7945	14.4628	1.1917e-01	8.7075e-01
89	PAN120136	15.8348	16.2925	16.0605	1.0897e-01	8.7093e-01
90	PAN125136	8.8450	9.3028	9.1159	1.1019e-01	8.7030e-01
91	PAN130136	3.4620	3.9960	3.6909	1.3397e-01	8.7005e-01
92	PAN120048	9.1804	9.7144	9.4310	1.2163e-01	8.7032e-01
93	PAN130048	23.6748	24.3614	24.0158	1.4282e-01	8.7207e-01
94	PAN120224	25.1712	25.7816	25.4904	1.6457e-01	8.7233e-01
95	PAN130224	16.2494	18.2330	17.6880	3.8051e-01	8.7112e-01
96	PAN120312	10.7650	11.3753	11.1231	1.4120e-01	8.7044e-01
97	PAN130312	21.9023	22.5127	22.2449	1.5583e-01	8.7178e-01
98	PAB000136	29.0129	29.4706	29.2530	8.0668e-02	5.8459e-01
99	PAB100136	22.9273	23.1104	23.0123	4.8553e-02	5.8285e-01
100	PAB125136	20.6789	20.8620	20.7397	4.3213e-02	5.8231e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	28.8503	29.5827	29.1891	1.5811e-01	7.5354e-01
102	PRV000001	18.9861	19.1082	19.1057	1.7439e-02	7.5152e-01
103	PSR000001	19.6691	19.7911	19.7264	6.1552e-02	7.5162e-01
104	PFM000001	49.0652	50.8963	49.9172	3.9960e-01	5.1534e-01
105	PAN000136	232.5883	240.8281	236.7829	2.0048e+00	4.9555e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6356e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0091	1.7263e-03	0.0000e+00
108	EMPTY	-10.0000	2.7686	-5.6104	3.6647e+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	0.0009	1.9103e-03	0.0000e+00
112	VPW000001	-1.0479	-0.6573	-0.8287	1.1014e-01	8.1002e-01
113	VPW000002	-1.0404	-0.6498	-0.7454	1.0640e-01	8.1001e-01
114	VPW000003	-0.9240	-0.3380	-0.6609	1.1658e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6320	1.0941e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.3331	1.1419e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4416	1.0092e-01	8.1005e-01
118	IPW000001	-11.6766	-5.8195	-9.4055	1.1514e+00	8.1003e+00
119	IPW000002	-12.2331	-8.3306	-10.0031	8.9063e-01	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-11.1513	1.1695e+00	8.1005e+00
121	IPW000004	-2.2536	-1.2771	-1.9647	2.8047e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5121	2.7274e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.1997	4.1731e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0098	-0.0201	2.9284e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0129	2.3783e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0164	2.9388e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	2.9867e-03	0.0000e+00
128	IHT000001	-0.4019	0.1841	-0.0352	1.0268e-01	4.1000e+00
129	IHT000002	-0.0376	0.1577	-0.0256	4.7310e-02	4.1000e+00
130	IHT000003	-0.2817	0.1089	-0.0346	9.5812e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0314	9.4620e-02	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0392	1.0548e-01	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0356	1.0640e-01	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0441	8.7680e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0820	9.6150e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0223	9.3412e-02	4.1000e+00
137	IHT000010	-0.1427	0.2479	-0.0949	9.3759e-02	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0770	8.3122e-02	4.1000e+00
139	IHT000012	-0.3606	0.0301	-0.0975	1.0204e-01	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0712	1.0955e-01	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0359	1.1044e-01	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0249	7.5986e-02	4.1000e+00
143	IHT000016	-0.1352	0.0601	-0.0475	9.8153e-02	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.0774	2.8185e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0106	1.1560e-01	4.1000e+00
146	IHT000019	0.2366	0.4319	0.3044	9.3931e-02	4.1000e+00
147	IHT000020	-0.2517	0.3343	-0.0285	1.1276e-01	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0124	1.1960e-01	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1313	9.3931e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1732	8.8783e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.3415	9.9303e-02	4.1000e+00
152	IHT000025	0.2028	0.3981	0.3025	9.8648e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0024	8.5810e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	0.0061	7.9532e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	0.0192	1.0315e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.1127	-0.0348	9.3759e-02	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0448	1.2095e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0269	1.3112e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	-0.0139	1.0548e-01	4.1000e+00
160	IHT000033	-0.0977	0.0976	-0.0259	9.5132e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0097	1.0548e-01	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0517	1.0424e-01	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0523	1.2095e-01	4.1000e+00

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Velocity 1 = 0.020100 (ft/sec)

Velocity 2 = 0.000100 (ft/sec)

Pressure Drop = 0.002600 (psi)

Tsat in = 0.052002 (deg F) Tsat out = 0.018295 (deg F)

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

#	Name	Abs Diff	%Diff
0	TRF000001	0.0648	0.0884
1	TRF000002	0.0457	0.0622
2	TFM000001	0.0607	0.0695
3	TIN000001	0.0748	0.0860
4	TRV000001	0.0395	0.0454
5	TSR000001	0.0339	0.0389
6	TAO020136	0.0253	0.0317
7	TAO050136	0.0793	0.0908
8	TAO070136	0.0732	0.0838
9	TAO080136	0.0481	0.0553
10	TAO090136	0.0133	0.0152
11	TAO100136	0.0133	0.0153
12	TAO105136	0.0642	0.0731
13	TAO110136	0.0452	0.0516
14	TAO115136	0.0737	0.0842
15	TAO120136	0.0529	0.0606
16	TAO125136	0.0118	0.0135
17	TAO130136	0.0146	0.0168
18	TAO120048	0.0537	0.0709
19	TAO130048	0.0553	0.0636
20	TAO120224	0.0556	0.0638
21	TAO130224	0.0532	0.0610
22	TAO120312	0.0346	0.0397
23	TAO130312	0.0232	0.0267
24	TRT020000	0.0461	0.0526
25	TRT070000	0.0074	0.0085
26	TRT100000	0.0779	0.0889
27	TRT120000	0.0904	0.1034
28	TRT125000	0.0056	0.0074
29	TRT130000	0.0261	0.0299
30	EMPTY	0.0354	0.0896
31	TAF050136	0.0438	0.0500
32	TAF070136	0.0793	0.0973
33	TAF080136	0.0175	0.0200
34	TAF090136	0.1161	0.1556
35	TAF100136	0.0017	0.0019
36	TAF105136	0.0660	0.0755
37	TAF110136	0.0511	0.0586
38	TAF115136	0.0090	0.0103
39	TAF120136	0.0102	0.0117
40	TAF125136	0.0507	0.0579
41	TAF130136	0.0547	0.0627
42	TAF120048	0.0739	0.0842
43	TAF130048	0.0508	0.0582
44	TAF120224	0.0688	0.0787
45	TAF130224	0.0419	0.0482

#	Name	Abs Diff	%Diff
46	EMPTY	0.0353	0.0926
47	EMPTY	0.0087	0.0222
48	TAI130048	0.1536	0.1752
49	TAI130136	0.0955	0.1098
50	TAI130224	0.0652	0.0740
51	TAI130312	0.0643	0.0737
52	TRR130000	0.0420	0.0488
53	TSI000001	0.0694	0.0872
54	TSI000002	0.0416	0.0551
55	TSO000001	0.0726	0.0990
56	TSO000002	0.1334	0.1628
57	TAF020136	0.0408	0.0470
58	TAF120312	0.1276	0.1464
59	TAF130312	0.0317	0.0366
60	EMPTY	0.0010	0.1959
61	EMPTY	0.0001	0.0191
62	EMPTY	0.0003	0.0558
63	EMPTY	0.0002	0.0362
64	EMPTY	0.0011	0.3143
65	EMPTY	0.0000	0.0000
66	EMPTY	0.0002	0.0517
67	EMPTY	0.0003	0.0740
68	EMPTY	0.0001	0.0238
69	EMPTY	0.0001	0.0227
70	EMPTY	0.0001	0.0220
71	EMPTY	0.0002	0.0418
72	EMPTY	0.0005	0.1015
73	EMPTY	0.0003	0.0586
74	EMPTY	0.0001	0.0190
75	EMPTY	0.0005	0.0915
76	EMPTY	0.0007	0.1248
77	EMPTY	0.0004	0.0689
78	EMPTY	0.0013	0.2163
79	EMPTY	0.0001	0.0160
80	PAN020136	0.0293	0.0882
81	PAN050136	0.0429	0.0743
82	PAN070136	0.0543	0.1715
83	PAN080136	0.0358	0.2393
84	PAN090136	0.0536	0.3953
85	PAN100136	0.0375	0.2116
86	PAN105136	0.0002	0.0021
87	PAN110136	0.0242	0.1879
88	PAN115136	0.0422	0.2926
89	PAN120136	0.0215	0.1337
90	PAN125136	0.0251	0.2746
91	PAN130136	0.0320	0.8595
92	PAN120048	0.0622	0.6552
93	PAN130048	0.0435	0.1808
94	PAN120224	0.0104	0.0408
95	PAN130224	0.1711	0.9581
96	PAN120312	0.0050	0.0449
97	PAN130312	0.0038	0.0171
98	PAB000136	0.0263	0.0898
99	PAB100136	0.0111	0.0482
100	PAB125136	0.0070	0.0337

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0019	0.0065
102	PRV000001	0.0097	0.0508
103	PSR000001	0.0037	0.0188
104	PFM000001	0.1123	0.2255
105	PAN000136	0.0718	0.0303
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0008	9.6386
108	EMPTY	0.8942	13.7472
109	EMPTY	0.0004	8.6956
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0113	1.3824
113	VPW000002	0.0255	3.3078
114	VPW000003	0.0013	0.1963
115	VPW000004	0.0088	1.3733
116	VPW000005	0.0066	0.4926
117	VPW000006	0.0276	1.8786
118	IPW000001	0.3578	3.6647
119	IPW000002	0.2397	2.3402
120	IPW000003	0.1218	1.1043
121	IPW000004	0.0350	1.7503
122	IPW000005	0.0002	0.0057
123	IPW000006	0.0024	0.1090
124	EMPTY	0.0007	3.3654
125	EMPTY	0.0006	4.4444
126	EMPTY	0.0007	4.0936
127	EMPTY	0.0000	0.0000
128	IHT000001	0.0073	17.1765
129	IHT000002	0.0042	14.0940
130	IHT000003	0.0107	44.7699
131	IHT000004	0.0113	26.4637
132	IHT000005	0.0150	27.6753
133	IHT000006	0.0059	14.2169
134	IHT000007	0.0004	0.8989
135	IHT000008	0.0094	10.2845
136	IHT000009	0.0040	15.2091
137	IHT000010	0.0088	8.4860
138	IHT000011	0.0032	4.3360
139	IHT000012	0.0053	5.1556
140	IHT000013	0.0287	28.7287
141	IHT000014	0.0281	360.2564
142	IHT000015	0.0268	1410.5264
143	IHT000016	0.0178	59.9327
144	IHT000017	0.0008	1.0444
145	IHT000018	0.0275	72.1785
146	IHT000019	0.0404	15.3030
147	IHT000020	0.0357	55.6075
148	IHT000021	0.0061	32.9730
149	IHT000022	0.0221	20.2381
150	IHT000023	0.0275	18.8744
151	IHT000024	0.0105	2.9829
152	IHT000025	0.0137	4.7438
153	IHT000026	0.0074	148.0000
154	IHT000027	0.0243	133.5165
155	IHT000028	0.0093	93.9394

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0029	9.0909
157	IHT000030	0.0027	5.6842
158	IHT000031	0.0180	40.0891
159	IHT000032	0.0061	78.2051
160	IHT000033	0.0015	5.4745
161	IHT000034	0.0083	46.1111
162	IHT000035	0.0003	0.5769
163	IHT000036	0.0168	47.3239

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sum1

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Velocity 1 = 16.0169 (ft/sec) (+/- 1.7881 %)
Velocity 2 = 13.4153 (ft/sec) (+/- 1.7033 %)
Pressure drop = 5.8703 (psi)
Tsat in = 242.8798 (deg F) Tsat out = 228.7169 (deg F)
Phi inner = 0.0048 (kBtu/hr-ft2) (+/- 128.3568 %)
Phi outer = 0.0075 (kBtu/hr-ft2) (+/- 123.6447 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.8399	73.6941	73.3312	1.8929e-01	1.9000e+00
1	TRF000002	73.1115	73.7485	73.4598	1.3402e-01	1.9000e+00
2	TFM000001	87.0221	87.9672	87.5033	2.1529e-01	1.9002e+00
3	TIN000001	86.9536	87.4801	87.2044	1.3093e-01	1.9002e+00
4	TRV000001	86.6985	87.8527	87.1843	2.2404e-01	1.9002e+00
5	TSR000001	86.9520	87.6878	87.2955	1.5849e-01	1.9002e+00
6	TAO020136	79.4446	80.5039	79.9597	2.6809e-01	1.9001e+00
7	TAO050136	87.3298	87.9595	87.6051	1.5847e-01	1.9002e+00
8	TAO070136	87.0872	88.0358	87.5531	2.1830e-01	1.9002e+00
9	TAO080136	86.8176	87.6567	87.2821	1.8605e-01	1.9002e+00
10	TAO090136	87.2187	88.0580	87.6406	2.0054e-01	1.9002e+00
11	TAO100136	87.1346	87.7659	87.4942	1.6322e-01	1.9002e+00
12	TAO105136	87.6350	88.5814	88.0581	2.2825e-01	1.9002e+00
13	TAO110136	87.3411	88.1783	87.7953	1.6479e-01	1.9002e+00
14	TAO115136	87.2615	88.1028	87.6929	2.1170e-01	1.9002e+00
15	TAO120136	87.0622	87.9031	87.5522	1.9536e-01	1.9002e+00
16	TAO125136	87.1752	88.3306	87.8454	2.1181e-01	1.9002e+00
17	TAO130136	87.0720	87.7006	87.3593	1.5196e-01	1.9002e+00
18	TAO120048	75.2371	76.4045	75.8426	2.6866e-01	1.9000e+00
19	TAO130048	86.8692	87.4988	87.2230	1.5582e-01	1.9002e+00
20	TAO120224	86.8854	87.7269	87.3214	1.7649e-01	1.9002e+00
21	TAO130224	86.9297	87.7644	87.3880	2.4595e-01	1.9002e+00
22	TAO120312	86.8738	87.7162	87.2764	1.7881e-01	1.9002e+00
23	TAO130312	86.7947	87.5315	87.1592	1.5638e-01	1.9002e+00
24	TRT020000	87.4228	88.2655	87.8167	1.9009e-01	1.9002e+00
25	TRT070000	87.2940	88.0333	87.6386	1.7289e-01	1.9002e+00
26	TRT100000	87.3860	88.2256	87.8500	2.1721e-01	1.9002e+00
27	TRT120000	87.2546	87.9908	87.6443	1.6887e-01	1.9002e+00
28	TRT125000	74.8237	75.5645	75.1820	1.9099e-01	1.9000e+00
29	TRT130000	87.1073	87.7379	87.4165	1.4305e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.4725	2.2766e-01	1.9010e+00
31	TAF050136	87.3596	88.0957	87.7406	1.6407e-01	1.9002e+00
32	TAF070136	81.2694	82.1120	81.6888	1.8947e-01	1.9001e+00
33	TAF080136	87.2011	88.0393	87.5597	1.9045e-01	1.9002e+00
34	TAF090136	74.2696	75.3307	74.8492	2.5733e-01	1.9000e+00
35	TAF100136	87.1564	87.8940	87.5253	1.7192e-01	1.9002e+00
36	TAF105136	87.1676	88.1083	87.6094	2.4425e-01	1.9002e+00
37	TAF110136	86.9488	87.6846	87.3718	1.6361e-01	1.9002e+00
38	TAF115136	87.4986	88.3383	87.9082	1.8138e-01	1.9002e+00
39	TAF120136	87.3358	87.9664	87.6489	1.6078e-01	1.9002e+00
40	TAF125136	87.2803	88.3265	87.7860	2.6564e-01	1.9002e+00
41	TAF130136	87.2327	87.7599	87.5301	1.2162e-01	1.9002e+00
42	TAF120048	87.5789	88.3183	87.9445	1.7871e-01	1.9002e+00
43	TAF130048	87.0465	87.7834	87.4865	1.6546e-01	1.9002e+00
44	TAF120224	87.1500	88.0946	87.6771	2.1992e-01	1.9002e+00
45	TAF130224	86.8217	87.3494	87.1110	1.3437e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1354	2.1787e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2062	1.0175e-01	1.9010e+00
48	TAI130048	86.9987	88.4698	87.8125	2.9843e-01	1.9002e+00
49	TAI130136	86.5732	87.5186	87.1554	2.2444e-01	1.9002e+00
50	TAI130224	87.7887	88.8413	88.3634	2.6403e-01	1.9002e+00
51	TAI130312	86.9851	88.0374	87.5596	1.9504e-01	1.9002e+00
52	TRR130000	85.7633	86.7074	86.2692	2.4927e-01	1.9002e+00
53	TSI000001	79.2841	79.9192	79.6374	1.6075e-01	1.9001e+00
54	TSI000002	74.9514	76.0109	75.4962	2.7957e-01	1.9000e+00
55	TSO000001	72.8725	73.7259	73.3483	2.0004e-01	1.9000e+00
56	TSO000002	81.9242	82.5581	82.2519	1.9467e-01	1.9001e+00
57	TAF020136	86.5438	87.3881	87.0022	1.9386e-01	1.9002e+00
58	TAF120312	86.7167	87.8728	87.3415	2.9498e-01	1.9002e+00
59	TAF130312	86.5635	87.1936	86.8932	1.4873e-01	1.9002e+00
60	EMPTY	0.5127	0.5176	0.5129	9.6655e-04	0.0000e+00
61	EMPTY	0.5273	0.5322	0.5278	1.4797e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5417	1.1714e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5563	1.1714e-03	0.0000e+00
64	EMPTY	0.3467	0.3564	0.3513	1.5314e-03	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3715	1.3381e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3886	2.4344e-03	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4063	1.9730e-03	0.0000e+00
68	EMPTY	0.4150	0.4248	0.4206	1.9754e-03	0.0000e+00
69	EMPTY	0.4395	0.4443	0.4396	6.9053e-04	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4550	1.8950e-03	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4787	9.6655e-04	0.0000e+00
72	EMPTY	0.4883	0.4980	0.4932	9.8648e-04	0.0000e+00
73	EMPTY	0.5078	0.5176	0.5127	9.8648e-04	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5278	1.4797e-03	0.0000e+00
75	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
76	EMPTY	0.5566	0.5664	0.5615	9.8648e-04	0.0000e+00
77	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6051	1.3381e-03	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6260	1.9730e-03	0.0000e+00
80	PAN020136	22.5919	23.2786	22.9230	1.5072e-01	8.7189e-01
81	PAN050136	39.7160	40.9367	40.3538	2.9357e-01	1.6830e+00
82	PAN070136	20.5879	21.3509	20.9557	1.9900e-01	8.7158e-01
83	PAN080136	9.5427	10.0005	9.7533	1.1385e-01	8.7034e-01
84	PAN090136	8.7211	9.1788	8.9255	1.2752e-01	8.7029e-01
85	PAN100136	11.9944	12.5285	12.2416	1.1175e-01	8.7054e-01
86	PAN105136	6.5650	6.9464	6.7618	9.5129e-02	8.7016e-01
87	PAN110136	9.1048	9.4862	9.2955	8.3362e-02	8.7031e-01
88	PAN115136	10.0642	10.4457	10.2916	8.5111e-02	8.7038e-01
89	PAN120136	11.5623	12.0201	11.7439	8.7043e-02	8.7050e-01
90	PAN125136	5.6407	6.1747	5.8909	8.1620e-02	8.7012e-01
91	PAN130136	1.3258	1.7072	1.5150	8.4761e-02	8.7001e-01
92	PAN120048	4.7553	5.3657	5.1185	1.1385e-01	8.7009e-01
93	PAN130048	16.5032	16.8846	16.6817	1.0635e-01	8.7100e-01
94	PAN120224	17.9233	18.3048	18.0957	1.0769e-01	8.7118e-01
95	PAN130224	11.5191	12.2058	11.8594	1.3367e-01	8.7051e-01
96	PAN120312	6.4162	6.8740	6.6497	9.5528e-02	8.7016e-01
97	PAN130312	14.8833	15.4936	15.2068	1.2669e-01	8.7083e-01
98	PAB000136	26.1290	26.4494	26.3029	7.2231e-02	5.8372e-01
99	PAB100136	21.9202	22.1033	21.9879	4.5533e-02	5.8260e-01
100	PAB125136	20.3127	20.4958	20.3777	4.0407e-02	5.8223e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	25.9206	26.4089	26.2087	1.1766e-01	7.5286e-01
102	PRV0000001	19.1082	19.2303	19.1107	1.7263e-02	7.5152e-01
103	PSR0000001	19.6691	19.7911	19.7252	6.1457e-02	7.5162e-01
104	PFM0000001	38.9028	39.9099	39.3881	2.4275e-01	5.0960e-01
105	PAN000136	158.8884	166.6703	162.5230	1.8781e+00	4.9367e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0082	2.3008e-03	0.0000e+00
108	EMPTY	-10.0000	1.6406	-7.4634	3.0762e+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	0.0004	1.3381e-03	0.0000e+00
112	VPW0000001	-1.0479	-0.6573	-0.7979	9.6976e-02	8.1001e-01
113	VPW0000002	-0.8451	-0.6498	-0.7513	9.8569e-02	8.1001e-01
114	VPW0000003	-0.9240	-0.5333	-0.6896	9.6655e-02	8.1001e-01
115	VPW0000004	-0.8752	-0.4845	-0.6408	1.1161e-01	8.1001e-01
116	VPW0000005	-1.4686	-1.0780	-1.3397	1.0885e-01	8.1004e-01
117	VPW0000006	-1.6489	-1.2583	-1.4341	1.2001e-01	8.1005e-01
118	IPW0000001	-11.6766	-7.7719	-9.4509	1.3088e+00	8.1003e+00
119	IPW0000002	-12.2331	-8.3306	-10.2038	1.3633e+00	8.1004e+00
120	IPW0000003	-12.8625	-8.9625	-11.5365	1.3325e+00	8.1005e+00
121	IPW0000004	-2.7419	-1.2771	-1.9997	2.8317e-01	2.0001e+00
122	IPW0000005	-4.4786	-2.5257	-3.5607	3.7741e-01	2.0002e+00
123	IPW0000006	-2.8076	-1.3427	-2.2021	2.8862e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0098	-0.0204	3.6500e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.9528e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0169	2.9938e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	3.1567e-03	0.0000e+00
128	IHT0000001	-0.2066	0.1841	-0.0230	7.2866e-02	4.1000e+00
129	IHT0000002	-0.2329	0.1577	-0.0454	6.7888e-02	4.1000e+00
130	IHT0000003	-0.2817	0.3042	-0.0200	1.0885e-01	4.1000e+00
131	IHT0000004	-0.2028	0.1878	-0.0192	1.1443e-01	4.1000e+00
132	IHT0000005	-0.2066	0.1841	-0.0347	1.0168e-01	4.1000e+00
133	IHT0000006	-0.2554	0.3305	0.0532	1.1223e-01	4.1000e+00
134	IHT0000007	-0.2554	0.1352	-0.0171	9.0756e-02	4.1000e+00
135	IHT0000008	-0.1578	0.0376	-0.0718	9.7935e-02	4.1000e+00
136	IHT0000009	-0.2216	0.1690	-0.0224	7.3716e-02	4.1000e+00
137	IHT0000010	-0.1427	0.4432	-0.0724	1.1679e-01	4.1000e+00
138	IHT0000011	-0.1089	0.0864	-0.0542	8.8585e-02	4.1000e+00
139	IHT0000012	-0.3606	0.0301	-0.0871	1.1161e-01	4.1000e+00
140	IHT0000013	-0.2517	0.3343	0.0921	1.0106e-01	4.1000e+00
141	IHT0000014	-0.1953	0.1953	-0.0117	8.2864e-02	4.1000e+00
142	IHT0000015	-0.0488	0.1465	0.0176	9.3461e-02	4.1000e+00
143	IHT0000016	-0.1352	0.2554	-0.0219	1.0507e-01	4.1000e+00
144	IHT0000017	-0.3530	0.8188	0.1157	2.5875e-01	4.1000e+00
145	IHT0000018	-0.1728	0.2178	0.0264	9.2456e-02	4.1000e+00
146	IHT0000019	0.0413	0.4319	0.2522	7.7324e-02	4.1000e+00
147	IHT0000020	-0.2517	0.1390	-0.0603	8.3612e-02	4.1000e+00
148	IHT0000021	-0.0714	0.1240	-0.0049	9.3461e-02	4.1000e+00
149	IHT0000022	-0.1916	0.1991	0.0897	1.0559e-01	4.1000e+00
150	IHT0000023	-0.0300	0.3606	0.1379	7.9017e-02	4.1000e+00
151	IHT0000024	-0.4770	-0.2817	-0.3559	9.5765e-02	4.1000e+00
152	IHT0000025	0.0075	0.3981	0.2731	1.0259e-01	4.1000e+00
153	IHT0000026	-0.1690	0.2216	-0.0011	7.9017e-02	4.1000e+00
154	IHT0000027	-0.0338	0.1615	-0.0221	4.6855e-02	4.1000e+00
155	IHT0000028	-0.2479	0.1427	-0.0018	9.5112e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.1127	-0.0475	7.5798e-02	4.1000e+00
157	IHT000030	-0.0150	0.1803	0.0319	8.4262e-02	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0488	1.0625e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	-0.0390	1.0625e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	-0.0547	9.0756e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0024	9.4125e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0481	9.0412e-02	4.1000e+00
163	IHT000036	-0.1878	0.0075	-0.0511	9.0412e-02	4.1000e+00

Velocity 1 = 16.0159 (ft/sec) (+/- 1.7882 %)
Velocity 2 = 13.4153 (ft/sec) (+/- 1.7033 %)
Pressure drop = 5.8666 (psi)
Tsats in = 242.8551 (deg F) Tsats out = 228.7155 (deg F)
Phi inner = 0.0045 (kBtu/hr-ft2) (+/- 131.2935 %)
Phi outer = 0.0076 (kBtu/hr-ft2) (+/- 122.3932 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	72.8399	73.6941	73.3150	1.9133e-01	1.9000e+00
1	TRF0000002	73.1115	73.7485	73.4106	1.3650e-01	1.9000e+00
2	TFM0000001	87.1268	87.9672	87.5195	2.1614e-01	1.9002e+00
3	TIN0000001	86.9536	87.5856	87.1816	1.4313e-01	1.9002e+00
4	TRV0000001	86.9078	87.5387	87.2325	1.8269e-01	1.9002e+00
5	TSR0000001	86.9520	87.5828	87.2553	1.7492e-01	1.9002e+00
6	TAO020136	79.5508	80.5039	79.9357	2.2426e-01	1.9001e+00
7	TAO050136	87.0159	87.9601	87.5785	2.0270e-01	1.9002e+00
8	TAO070136	87.0872	87.9308	87.5734	2.0613e-01	1.9002e+00
9	TAO080136	86.8181	87.5536	87.2231	1.7791e-01	1.9002e+00
10	TAO090136	87.2176	88.1618	87.6192	2.1699e-01	1.9002e+00
11	TAO100136	87.0291	87.7659	87.4650	1.7032e-01	1.9002e+00
12	TAO105136	87.5300	88.4765	88.0024	2.0490e-01	1.9002e+00
13	TAO110136	87.2361	88.1789	87.7383	1.8148e-01	1.9002e+00
14	TAO115136	87.3662	88.2080	87.6824	1.8588e-01	1.9002e+00
15	TAO120136	87.1666	87.9037	87.5300	1.9206e-01	1.9002e+00
16	TAO125136	87.3847	88.3306	87.8205	1.8556e-01	1.9002e+00
17	TAO130136	86.9670	87.5951	87.3329	1.4355e-01	1.9002e+00
18	TAO120048	75.4497	76.5105	75.8376	2.6019e-01	1.9000e+00
19	TAO130048	86.7628	87.4988	87.2108	1.7137e-01	1.9002e+00
20	TAO120224	86.9909	87.6225	87.3216	1.5037e-01	1.9002e+00
21	TAO130224	86.9297	87.6619	87.3736	1.8537e-01	1.9002e+00
22	TAO120312	86.9794	87.6114	87.3232	1.7167e-01	1.9002e+00
23	TAO130312	86.7947	87.5315	87.1537	1.8316e-01	1.9002e+00
24	TRT020000	87.3177	88.0551	87.7754	1.7539e-01	1.9002e+00
25	TRT070000	87.0840	88.0333	87.5811	1.7885e-01	1.9002e+00
26	TRT100000	87.3860	88.2262	87.8571	1.9539e-01	1.9002e+00
27	TRT120000	87.2552	87.9914	87.6564	1.7784e-01	1.9002e+00
28	TRT125000	74.8237	75.5645	75.1868	1.7944e-01	1.9000e+00
29	TRT130000	87.0023	87.6329	87.3863	1.6411e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.5213	2.1827e-01	1.9011e+00
31	TAF050136	87.3602	87.9902	87.7098	1.6931e-01	1.9002e+00
32	TAF070136	81.1640	82.0060	81.6650	1.8167e-01	1.9001e+00
33	TAF080136	87.0962	87.9338	87.5433	1.7078e-01	1.9002e+00
34	TAF090136	74.1637	75.2247	74.7463	2.7646e-01	1.9000e+00
35	TAF100136	86.9464	87.8940	87.5200	1.8744e-01	1.9002e+00
36	TAF105136	87.0620	88.2138	87.5820	2.7048e-01	1.9002e+00
37	TAF110136	86.9488	88.1012	87.3631	1.8827e-01	1.9002e+00
38	TAF115136	87.3931	88.3389	87.8416	2.2246e-01	1.9002e+00
39	TAF120136	87.2309	88.0698	87.6231	1.7892e-01	1.9002e+00
40	TAF125136	86.8642	88.2238	87.7067	3.0254e-01	1.9002e+00
41	TAF130136	87.2327	87.7599	87.4847	1.4849e-01	1.9002e+00
42	TAF120048	87.3683	88.4231	87.9479	2.5591e-01	1.9002e+00
43	TAF130048	87.0471	87.7834	87.4826	1.6768e-01	1.9002e+00
44	TAF120224	87.1500	88.2001	87.6642	2.1777e-01	1.9002e+00
45	TAF130224	86.8221	87.4548	87.0955	1.4419e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0959	1.8773e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1652	6.3526e-02	1.9010e+00
48	TAI130048	87.2093	88.4698	87.8034	2.9116e-01	1.9002e+00
49	TAI130136	86.6788	87.5191	87.1244	1.8381e-01	1.9002e+00
50	TAI130224	87.6838	88.9463	88.2399	3.2077e-01	1.9002e+00
51	TAI130312	86.9851	88.0374	87.5134	2.2676e-01	1.9002e+00
52	TRR130000	85.6582	86.8130	86.3071	2.4857e-01	1.9002e+00
53	TSI000001	79.1785	79.8130	79.5476	1.5130e-01	1.9001e+00
54	TSI000002	74.9514	76.0115	75.4446	2.9524e-01	1.9000e+00
55	TSO000001	72.8725	73.8326	73.3015	1.9406e-01	1.9000e+00
56	TSO000002	81.7133	82.5581	82.2672	1.8737e-01	1.9001e+00
57	TAF020136	86.4388	87.1782	86.9449	1.6969e-01	1.9002e+00
58	TAF120312	86.8229	87.8734	87.3156	2.6701e-01	1.9002e+00
59	TAF130312	86.5621	87.1936	86.9041	1.7115e-01	1.9002e+00
60	EMPTY	0.5127	0.5176	0.5140	2.1781e-03	0.0000e+00
61	EMPTY	0.5273	0.5322	0.5287	2.2287e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5419	6.9754e-04	0.0000e+00
63	EMPTY	0.5420	0.5566	0.5562	2.1920e-03	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3519	1.1827e-03	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3728	2.3483e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3899	1.7263e-03	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4068	2.2737e-03	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4213	2.2287e-03	0.0000e+00
69	EMPTY	0.4346	0.4492	0.4397	1.7146e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4554	2.1781e-03	0.0000e+00
71	EMPTY	0.4736	0.4834	0.4786	1.2165e-03	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4933	6.9754e-04	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5128	6.9754e-04	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5277	1.3508e-03	0.0000e+00
75	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5616	6.9754e-04	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5810	6.9754e-04	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6049	1.6172e-03	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6256	1.6172e-03	0.0000e+00
80	PAN020136	22.7445	23.2786	22.9936	1.2240e-01	8.7190e-01
81	PAN050136	39.5634	40.9367	40.1457	2.8661e-01	1.6830e+00
82	PAN070136	20.5879	21.3509	20.9974	1.6823e-01	8.7158e-01
83	PAN080136	9.5427	9.9242	9.7405	1.0202e-01	8.7034e-01
84	PAN090136	8.6448	9.1026	8.8815	9.6310e-02	8.7028e-01
85	PAN100136	11.9944	12.5285	12.2420	1.3445e-01	8.7054e-01
86	PAN105136	6.4887	6.9464	6.6880	9.9495e-02	8.7016e-01
87	PAN110136	9.0285	9.4099	9.1935	7.9937e-02	8.7030e-01
88	PAN115136	10.2168	10.6746	10.4566	1.1122e-01	8.7039e-01
89	PAN120136	11.5623	11.9438	11.7492	8.2497e-02	8.7050e-01
90	PAN125136	5.7933	6.1747	5.9318	8.7646e-02	8.7013e-01
91	PAN130136	1.3258	1.7835	1.5624	7.8248e-02	8.7001e-01
92	PAN120048	4.9079	5.5183	5.1710	1.1660e-01	8.7010e-01
93	PAN130048	16.5795	16.8846	16.7523	9.5717e-02	8.7101e-01
94	PAN120224	17.8470	18.4574	18.1039	1.1726e-01	8.7118e-01
95	PAN130224	11.6717	12.2058	11.8990	1.2012e-01	8.7051e-01
96	PAN120312	6.4162	6.9503	6.6731	1.1829e-01	8.7016e-01
97	PAN130312	15.0359	15.5699	15.2757	1.3842e-01	8.7084e-01
98	PAB000136	26.1747	26.4036	26.2915	4.7702e-02	5.8371e-01
99	PAB100136	21.9202	22.0575	21.9846	4.2737e-02	5.8260e-01
100	PAB125136	20.3127	20.4500	20.3772	4.4733e-02	5.8223e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	26.0427	26.4089	26.2320	8.6537e-02	7.5286e-01
102	PRV000001	19.1082	19.3524	19.1207	4.4885e-02	7.5152e-01
103	PSR000001	19.6691	19.7911	19.7114	5.8707e-02	7.5162e-01
104	PFM000001	38.9944	39.8184	39.3830	1.8550e-01	5.0960e-01
105	PAN000136	159.3461	165.2971	162.4197	1.2147e+00	4.9367e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6356e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0074	2.4662e-03	0.0000e+00
108	EMPTY	-10.0000	-2.8467	-8.1823	2.0412e+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	0.0007	1.7263e-03	0.0000e+00
112	VPW000001	-0.8526	-0.6573	-0.8088	8.2338e-02	8.1001e-01
113	VPW000002	-0.8451	-0.4545	-0.7853	9.9303e-02	8.1001e-01
114	VPW000003	-0.9240	-0.3380	-0.6649	1.1546e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6280	1.1810e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.3291	1.0548e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4536	1.1960e-01	8.1005e-01
118	IPW000001	-11.6766	-5.8195	-9.5648	1.4824e+00	8.1004e+00
119	IPW000002	-12.2331	-8.3306	-10.1226	1.2492e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-10.9523	1.1598e+00	8.1005e+00
121	IPW000004	-2.2536	-1.2771	-1.9946	2.6562e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5320	2.8898e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2197	3.7266e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.8020e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0129	2.3783e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0176	2.9594e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0152	2.9284e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0312	9.9629e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0416	8.4477e-02	4.1000e+00
130	IHT000003	-0.0864	0.3042	-0.0226	1.0076e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0434	1.1044e-01	4.1000e+00
132	IHT000005	-0.2066	0.3794	-0.0471	1.3621e-01	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0555	1.0486e-01	4.1000e+00
134	IHT000007	-0.0601	0.1352	-0.0162	8.2338e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0661	9.8483e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0263	7.9736e-02	4.1000e+00
137	IHT000010	-0.3380	0.0526	-0.0949	9.3759e-02	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0770	8.3122e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.1055	9.0949e-02	4.1000e+00
140	IHT000013	-0.0563	0.1390	0.0592	9.6990e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0438	9.9792e-02	4.1000e+00
142	IHT000015	-0.2442	0.3418	-0.0369	9.2715e-02	4.1000e+00
143	IHT000016	-0.1352	0.0601	-0.0395	9.8648e-02	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.0695	3.0713e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0026	1.0731e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2526	1.0424e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0603	9.3412e-02	4.1000e+00
148	IHT000021	-0.0714	0.1240	0.0084	9.6990e-02	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1273	9.5132e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1533	6.1868e-02	4.1000e+00
151	IHT000024	-0.4770	-0.2817	-0.3255	8.2338e-02	4.1000e+00
152	IHT000025	0.2028	0.3981	0.3144	9.7656e-02	4.1000e+00
153	IHT000026	-0.1690	0.4169	0.0303	8.4477e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	-0.0019	7.2937e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	0.0032	9.7656e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.1127	-0.0707	6.1868e-02	4.1000e+00
157	IHT000030	-0.2103	0.1803	0.0089	7.5986e-02	4.1000e+00
158	IHT000031	-0.1465	0.0488	-0.0628	9.7656e-02	4.1000e+00
159	IHT000032	-0.0976	0.0977	-0.0418	8.9148e-02	4.1000e+00
160	IHT000033	-0.0977	0.0976	-0.0498	8.4860e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0336	7.4477e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0317	9.4962e-02	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0602	1.0204e-01	4.1000e+00

Velocity 1 = 0.000999 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.003700 (psi)

Tsat in = 0.024704 (deg F) Tsat out = 0.001404 (deg F)

Phi inner = 0.000300 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0162	0.0221
1	TRF000002	0.0492	0.0670
2	TFM000001	0.0162	0.0185
3	TIN000001	0.0228	0.0261
4	TRV000001	0.0482	0.0553
5	TSR000001	0.0402	0.0460
6	TAO020136	0.0240	0.0300
7	TAO050136	0.0266	0.0304
8	TAO070136	0.0203	0.0232
9	TAO080136	0.0590	0.0676
10	TAO090136	0.0214	0.0244
11	TAO100136	0.0292	0.0334
12	TAO105136	0.0557	0.0632
13	TAO110136	0.0570	0.0649
14	TAO115136	0.0105	0.0120
15	TAO120136	0.0222	0.0254
16	TAO125136	0.0249	0.0283
17	TAO130136	0.0264	0.0302
18	TAO120048	0.0050	0.0066
19	TAO130048	0.0122	0.0140
20	TAO120224	0.0002	0.0002
21	TAO130224	0.0144	0.0165
22	TAO120312	0.0468	0.0536
23	TAO130312	0.0055	0.0063
24	TRT020000	0.0413	0.0470
25	TRT070000	0.0575	0.0656
26	TRT100000	0.0071	0.0081
27	TRT120000	0.0121	0.0138
28	TRT125000	0.0048	0.0064
29	TRT130000	0.0302	0.0345
30	EMPTY	0.0488	0.1236
31	TAF050136	0.0308	0.0351
32	TAF070136	0.0238	0.0291
33	TAF080136	0.0164	0.0187
34	TAF090136	0.1029	0.1375
35	TAF100136	0.0053	0.0061
36	TAF105136	0.0274	0.0313
37	TAF110136	0.0087	0.0100
38	TAF115136	0.0666	0.0758
39	TAF120136	0.0258	0.0294
40	TAF125136	0.0793	0.0903
41	TAF130136	0.0454	0.0519
42	TAF120048	0.0034	0.0039
43	TAF130048	0.0039	0.0045
44	TAF120224	0.0129	0.0147
45	TAF130224	0.0155	0.0178

#	Name	Abs Diff	%Diff
46	EMPTY	0.0395	0.1036
47	EMPTY	0.0410	0.1046
48	TAI130048	0.0091	0.0104
49	TAI130136	0.0310	0.0356
50	TAI130224	0.1235	0.1398
51	TAI130312	0.0462	0.0528
52	TRR130000	0.0379	0.0439
53	TSI000001	0.0898	0.1128
54	TSI000002	0.0516	0.0683
55	TSO000001	0.0468	0.0638
56	TSO000002	0.0153	0.0186
57	TAF020136	0.0573	0.0659
58	TAF120312	0.0259	0.0297
59	TAF130312	0.0109	0.0125
60	EMPTY	0.0011	0.2145
61	EMPTY	0.0009	0.1705
62	EMPTY	0.0002	0.0369
63	EMPTY	0.0001	0.0180
64	EMPTY	0.0006	0.1708
65	EMPTY	0.0013	0.3499
66	EMPTY	0.0013	0.3345
67	EMPTY	0.0005	0.1231
68	EMPTY	0.0007	0.1664
69	EMPTY	0.0001	0.0228
70	EMPTY	0.0004	0.0879
71	EMPTY	0.0001	0.0209
72	EMPTY	0.0001	0.0203
73	EMPTY	0.0001	0.0195
74	EMPTY	0.0001	0.0189
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0001	0.0178
77	EMPTY	0.0001	0.0172
78	EMPTY	0.0002	0.0330
79	EMPTY	0.0004	0.0639
80	PAN020136	0.0706	0.3080
81	PAN050136	0.2081	0.5157
82	PAN070136	0.0417	0.1990
83	PAN080136	0.0128	0.1312
84	PAN090136	0.0440	0.4930
85	PAN100136	0.0004	0.0033
86	PAN105136	0.0738	1.0914
87	PAN110136	0.1020	1.0973
88	PAN115136	0.1650	1.6032
89	PAN120136	0.0053	0.0451
90	PAN125136	0.0409	0.6943
91	PAN130136	0.0474	3.1287
92	PAN120048	0.0525	1.0257
93	PAN130048	0.0706	0.4232
94	PAN120224	0.0082	0.0453
95	PAN130224	0.0396	0.3339
96	PAN120312	0.0234	0.3519
97	PAN130312	0.0689	0.4531
98	PAB000136	0.0114	0.0433
99	PAB100136	0.0033	0.0150
100	PAB125136	0.0005	0.0025

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0233	0.0889
102	PRV000001	0.0100	0.0523
103	PSR000001	0.0138	0.0700
104	PFM000001	0.0051	0.0129
105	PAN000136	0.1033	0.0636
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0008	9.7561
108	EMPTY	0.7189	9.6323
109	EMPTY	0.0001	2.0408
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	75.0000
112	VPW000001	0.0109	1.3661
113	VPW000002	0.0340	4.5255
114	VPW000003	0.0247	3.5818
115	VPW000004	0.0128	1.9975
116	VPW000005	0.0106	0.7912
117	VPW000006	0.0195	1.3597
118	IPW000001	0.1139	1.2052
119	IPW000002	0.0812	0.7958
120	IPW000003	0.5842	5.0639
121	IPW000004	0.0051	0.2550
122	IPW000005	0.0287	0.8060
123	IPW000006	0.0176	0.7992
124	EMPTY	0.0008	3.9216
125	EMPTY	0.0016	11.0345
126	EMPTY	0.0007	4.1420
127	EMPTY	0.0018	10.5882
128	IHT000001	0.0082	35.6522
129	IHT000002	0.0038	8.3700
130	IHT000003	0.0026	13.0000
131	IHT000004	0.0242	126.0417
132	IHT000005	0.0124	35.7349
133	IHT000006	0.0023	4.3233
134	IHT000007	0.0009	5.2632
135	IHT000008	0.0057	7.9387
136	IHT000009	0.0039	17.4107
137	IHT000010	0.0225	31.0773
138	IHT000011	0.0228	42.0664
139	IHT000012	0.0184	21.1251
140	IHT000013	0.0329	35.7220
141	IHT000014	0.0321	274.3590
142	IHT000015	0.0545	309.6591
143	IHT000016	0.0176	80.3653
144	IHT000017	0.0462	39.9309
145	IHT000018	0.0238	90.1515
146	IHT000019	0.0004	0.1586
147	IHT000020	0.0000	0.0000
148	IHT000021	0.0133	271.4286
149	IHT000022	0.0376	41.9175
150	IHT000023	0.0154	11.1675
151	IHT000024	0.0304	8.5417
152	IHT000025	0.0413	15.1227
153	IHT000026	0.0314	2854.5459
154	IHT000027	0.0202	91.4027
155	IHT000028	0.0050	277.7778

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0232	48.8421
157	IHT000030	0.0230	72.1003
158	IHT000031	0.0140	28.6885
159	IHT000032	0.0028	7.1795
160	IHT000033	0.0049	8.9579
161	IHT000034	0.0312	1299.9999
162	IHT000035	0.0164	34.0956
163	IHT000036	0.0091	17.8082

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Velocity 1 = 14.0569 (ft/sec) (+/- 1.8644 %)
Velocity 2 = 13.4154 (ft/sec) (+/- 1.7033 %)
Pressure drop = 3.5175 (psi)
Tsat in = 236.9580 (deg F) Tsat out = 227.9219 (deg F)
Phi inner = 0.0046 (kBtu/hr-ft2) (+/- 130.7655 %)
Phi outer = 0.0075 (kBtu/hr-ft2) (+/- 122.9316 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.0535	73.6941	73.2841	1.6619e-01	1.9000e+00
1	TRF000002	73.3239	73.7485	73.4598	1.1950e-01	1.9000e+00
2	TFM000001	87.1277	88.0713	87.6395	1.9839e-01	1.9002e+00
3	TIN000001	87.0586	87.5848	87.2779	1.4241e-01	1.9002e+00
4	TRV000001	87.0134	87.8513	87.3410	1.8273e-01	1.9002e+00
5	TSR000001	86.9541	87.5828	87.2807	1.5800e-01	1.9002e+00
6	TAO020136	79.5508	80.5045	80.0676	2.5728e-01	1.9001e+00
7	TAO050136	87.4347	88.0633	87.7030	1.4235e-01	1.9002e+00
8	TAO070136	87.1921	88.1410	87.6817	2.0284e-01	1.9002e+00
9	TAO080136	87.0282	87.6567	87.3298	1.5502e-01	1.9002e+00
10	TAO090136	87.4282	88.3728	87.7556	1.9150e-01	1.9002e+00
11	TAO100136	87.3443	87.9754	87.5884	1.3995e-01	1.9002e+00
12	TAO105136	87.7403	88.5820	88.1526	2.2666e-01	1.9002e+00
13	TAO110136	87.6542	88.3870	87.9011	1.4929e-01	1.9002e+00
14	TAO115136	87.4717	88.1025	87.7958	1.7365e-01	1.9002e+00
15	TAO120136	87.3772	88.0080	87.6633	1.5888e-01	1.9002e+00
16	TAO125136	87.5952	88.3306	87.9353	1.9942e-01	1.9002e+00
17	TAO130136	87.0720	87.8020	87.4685	1.6735e-01	1.9002e+00
18	TAO120048	75.5557	76.6169	76.0904	2.9597e-01	1.9000e+00
19	TAO130048	87.0771	87.6024	87.2667	1.1451e-01	1.9002e+00
20	TAO120224	86.9909	87.7269	87.4199	1.6149e-01	1.9002e+00
21	TAO130224	87.1378	87.8699	87.4771	1.9493e-01	1.9002e+00
22	TAO120312	86.8745	87.7162	87.3710	1.6195e-01	1.9002e+00
23	TAO130312	86.9003	87.5298	87.2659	1.2247e-01	1.9002e+00
24	TRT020000	87.3177	88.2651	87.8609	2.3047e-01	1.9002e+00
25	TRT070000	87.4004	88.0333	87.7168	1.5804e-01	1.9002e+00
26	TRT100000	87.5954	88.3300	87.9691	1.6302e-01	1.9002e+00
27	TRT120000	87.4651	87.9914	87.7384	1.4403e-01	1.9002e+00
28	TRT125000	74.8237	75.8817	75.4535	2.0022e-01	1.9000e+00
29	TRT130000	87.2123	87.9479	87.5106	1.4606e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.5506	2.0513e-01	1.9011e+00
31	TAF050136	87.4651	88.1993	87.8387	1.6011e-01	1.9002e+00
32	TAF070136	81.3755	82.2162	81.7745	1.8509e-01	1.9001e+00
33	TAF080136	87.3061	88.1421	87.6782	1.8684e-01	1.9002e+00
34	TAF090136	74.3763	75.4371	74.9359	2.7099e-01	1.9000e+00
35	TAF100136	87.2619	87.9989	87.6073	1.6618e-01	1.9002e+00
36	TAF105136	87.2726	88.3164	87.7653	2.3852e-01	1.9002e+00
37	TAF110136	87.1600	87.7887	87.4656	1.3383e-01	1.9002e+00
38	TAF115136	87.6036	88.4427	88.0274	2.1081e-01	1.9002e+00
39	TAF120136	87.5449	87.9664	87.7260	1.0432e-01	1.9002e+00
40	TAF125136	87.3859	88.4320	87.8378	2.2860e-01	1.9002e+00
41	TAF130136	87.3383	87.9693	87.5823	1.4923e-01	1.9002e+00
42	TAF120048	87.5794	88.5295	88.0481	2.5422e-01	1.9002e+00
43	TAF130048	87.3619	87.9931	87.5724	1.3095e-01	1.9002e+00
44	TAF120224	87.4645	88.2001	87.7670	1.8919e-01	1.9002e+00
45	TAF130224	86.9277	87.4542	87.1258	1.1975e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0894	1.9709e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2016	9.9068e-02	1.9010e+00
48	TAI130048	87.3142	88.5752	87.8943	3.0614e-01	1.9002e+00
49	TAI130136	86.7838	87.5191	87.2577	1.7243e-01	1.9002e+00
50	TAI130224	87.8942	88.9463	88.4033	2.9247e-01	1.9002e+00
51	TAI130312	87.0901	87.9319	87.6289	1.9663e-01	1.9002e+00
52	TRR130000	85.9726	86.8109	86.3966	2.1162e-01	1.9002e+00
53	TSI000001	79.2841	79.9192	79.6140	1.3941e-01	1.9001e+00
54	TSI000002	74.9514	76.1163	75.4981	2.7075e-01	1.9000e+00
55	TSO000001	72.9793	73.8326	73.4827	1.8413e-01	1.9000e+00
56	TSO000002	81.9248	82.8750	82.3974	2.0818e-01	1.9001e+00
57	TAF020136	86.6489	87.3887	87.0467	1.6475e-01	1.9002e+00
58	TAF120312	86.9279	87.9776	87.4400	2.7622e-01	1.9002e+00
59	TAF130312	86.6677	87.2977	86.9790	1.5744e-01	1.9002e+00
60	EMPTY	0.5127	0.5225	0.5171	1.7784e-03	0.0000e+00
61	EMPTY	0.5273	0.5371	0.5318	1.6624e-03	0.0000e+00
62	EMPTY	0.5420	0.5469	0.5442	2.4583e-03	0.0000e+00
63	EMPTY	0.5566	0.5615	0.5606	1.8950e-03	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3518	9.6655e-04	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3749	2.0432e-03	0.0000e+00
66	EMPTY	0.3906	0.4004	0.3908	1.3811e-03	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4096	1.6028e-03	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4244	1.3381e-03	0.0000e+00
69	EMPTY	0.4395	0.4443	0.4420	2.4642e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4584	1.6028e-03	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4820	2.2146e-03	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4948	2.3365e-03	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5154	2.4484e-03	0.0000e+00
74	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5482	2.2146e-03	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5630	2.2603e-03	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5850	1.9730e-03	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6056	6.9053e-04	0.0000e+00
79	EMPTY	0.6299	0.6299	0.6299	0.0000e+00	0.0000e+00
80	PAN020136	14.0470	14.4285	14.2133	9.7106e-02	8.7073e-01
81	PAN050136	24.1520	24.7623	24.4083	1.8091e-01	1.6811e+00
82	PAN070136	11.3564	11.9667	11.5608	1.0041e-01	8.7048e-01
83	PAN080136	5.0414	5.3466	5.2169	8.7533e-02	8.7010e-01
84	PAN090136	4.3723	4.7538	4.5692	8.0225e-02	8.7007e-01
85	PAN100136	6.9590	7.4168	7.1925	9.6763e-02	8.7019e-01
86	PAN105136	4.0473	4.1999	4.1205	6.1578e-02	8.7006e-01
87	PAN110136	5.9767	6.2819	6.1201	7.3341e-02	8.7013e-01
88	PAN115136	6.5547	6.9362	6.7638	9.3517e-02	8.7016e-01
89	PAN120136	7.9002	8.1291	8.0055	6.6992e-02	8.7023e-01
90	PAN125136	3.1230	3.4281	3.3137	7.2706e-02	8.7004e-01
91	PAN130136	-0.1238	0.1813	0.0181	7.7084e-02	8.7000e-01
92	PAN120048	1.3984	1.7036	1.4869	7.7621e-02	8.7001e-01
93	PAN130048	10.3996	10.7811	10.5995	8.4269e-02	8.7040e-01
94	PAN120224	11.5909	11.9724	11.7053	9.4074e-02	8.7049e-01
95	PAN130224	6.7126	7.0941	6.8576	7.7453e-02	8.7017e-01
96	PAN120312	2.6015	2.9830	2.7968	1.0243e-01	8.7003e-01
97	PAN130312	9.2375	9.6190	9.3993	8.8061e-02	8.7032e-01
98	PAB000136	23.6113	23.7486	23.6836	4.6324e-02	5.8301e-01
99	PAB100136	21.0047	21.1420	21.0916	3.8411e-02	5.8239e-01
100	PAB125136	19.9923	20.1296	20.0774	4.3388e-02	5.8217e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	23.4792	23.6013	23.5402	6.1655e-02	7.5231e-01
102	PRV000001	19.1082	19.2303	19.1522	5.9189e-02	7.5153e-01
103	PSR000001	19.6691	19.7911	19.6740	2.4164e-02	7.5161e-01
104	PFM000001	29.9307	30.7547	30.2877	1.9066e-01	5.0570e-01
105	PAN000136	95.7170	99.3791	97.3833	7.2680e-01	4.9260e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	0.8545	-7.3113	1.9424e+00	0.0000e+00
109	EMPTY	0.0000	0.0195	0.0048	2.5131e-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	-0.8526	-0.4620	-0.7940	9.8648e-02	8.1001e-01
113	VPW000002	-0.8451	-0.6498	-0.7826	9.2034e-02	8.1001e-01
114	VPW000003	-0.7286	-0.5333	-0.6661	9.2034e-02	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6564	1.0168e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.3241	9.5112e-02	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4809	1.0447e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.7633	1.2151e+00	8.1004e+00
119	IPW000002	-12.2331	-8.3306	-9.8135	1.1534e+00	8.1004e+00
120	IPW000003	-14.8125	-8.9625	-10.9905	1.2433e+00	8.1005e+00
121	IPW000004	-2.2536	-1.7654	-2.0095	2.4662e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5412	3.5345e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2216	3.4173e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0207	4.0144e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0129	2.7480e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0188	3.3249e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0155	3.6500e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0191	7.8523e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0298	8.7880e-02	4.1000e+00
130	IHT000003	-0.2817	0.1089	-0.0200	1.0145e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0114	1.0799e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0269	1.1049e-01	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0688	1.0885e-01	4.1000e+00
134	IHT000007	-0.0601	0.1352	-0.0171	8.1729e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0914	9.3461e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0146	9.1779e-02	4.1000e+00
137	IHT000010	-0.1427	0.0526	-0.0880	8.8585e-02	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0347	9.5765e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0832	9.7377e-02	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0999	8.8233e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	0.0156	6.6498e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0137	8.5454e-02	4.1000e+00
143	IHT000016	-0.1352	0.2554	-0.0297	1.0595e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.0649	2.6765e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0030	1.0625e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2288	6.7888e-02	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0720	6.6498e-02	4.1000e+00
148	IHT000021	-0.0714	0.1240	-0.0089	9.2034e-02	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1053	9.8569e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1262	8.8233e-02	4.1000e+00
151	IHT000024	-0.8676	-0.2817	-0.3598	1.1838e-01	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2810	9.6655e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0067	8.1347e-02	4.1000e+00
154	IHT000027	-0.2291	0.1615	-0.0143	7.1136e-02	4.1000e+00
155	IHT000028	-0.0526	0.3381	0.0334	1.1272e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.3080	-0.0280	1.0470e-01	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0397	1.1189e-01	4.1000e+00
158	IHT000031	-0.3418	0.2441	-0.0410	1.2608e-01	4.1000e+00
159	IHT000032	-0.2930	0.2930	-0.0273	1.0992e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	-0.0274	1.0259e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0258	8.2864e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0520	1.0320e-01	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0745	1.1223e-01	4.1000e+00

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Velocity 1 = 14.0685 (ft/sec) (+/- 1.8638 %)

Velocity 2 = 13.4155 (ft/sec) (+/- 1.7033 %)

Pressure drop = 3.5086 (psi)

Tsats in = 236.9417 (deg F) Tsats out = 227.9464 (deg F)

Phi inner = 0.0045 (kBtu/hr-ft2) (+/- 132.0190 %)

Phi outer = 0.0075 (kBtu/hr-ft2) (+/- 123.0107 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.0535	73.4806	73.3368	1.5949e-01	1.9000e+00
1	TRF000002	73.3239	73.7485	73.4496	1.2943e-01	1.9000e+00
2	TFM000001	87.3374	88.1768	87.6993	1.9987e-01	1.9002e+00
3	TIN000001	86.9536	87.6903	87.3361	1.3703e-01	1.9002e+00
4	TRV000001	86.9092	87.7478	87.3351	2.1216e-01	1.9002e+00
5	TSR000001	87.0576	87.6878	87.2726	1.3555e-01	1.9002e+00
6	TAO020136	79.6564	80.5039	80.0826	2.2913e-01	1.9001e+00
7	TAO050136	87.4347	87.9595	87.7066	1.3873e-01	1.9002e+00
8	TAO070136	87.2981	88.1407	87.6939	1.6454e-01	1.9002e+00
9	TAO080136	87.0287	87.7598	87.3468	1.6556e-01	1.9002e+00
10	TAO090136	87.4287	88.1629	87.7604	1.7564e-01	1.9002e+00
11	TAO100136	87.2402	87.9749	87.5978	1.6873e-01	1.9002e+00
12	TAO105136	87.8452	88.4765	88.1654	2.1242e-01	1.9002e+00
13	TAO110136	87.5493	88.1783	87.9001	1.3767e-01	1.9002e+00
14	TAO115136	87.4726	88.2080	87.8754	1.8871e-01	1.9002e+00
15	TAO120136	87.1678	87.7982	87.6243	1.4789e-01	1.9002e+00
16	TAO125136	87.6998	88.3300	88.0129	1.8237e-01	1.9002e+00
17	TAO130136	87.1776	87.7001	87.4685	1.3661e-01	1.9002e+00
18	TAO120048	75.5568	76.7223	76.1577	3.0246e-01	1.9000e+00
19	TAO130048	87.0771	87.6024	87.2878	1.2150e-01	1.9002e+00
20	TAO120224	87.0959	87.7269	87.4502	1.6721e-01	1.9002e+00
21	TAO130224	87.0353	87.8699	87.5183	2.1175e-01	1.9002e+00
22	TAO120312	87.0844	87.7162	87.4005	1.5490e-01	1.9002e+00
23	TAO130312	87.0053	87.5309	87.2906	1.3223e-01	1.9002e+00
24	TRT020000	87.5278	88.3706	87.9172	1.8763e-01	1.9002e+00
25	TRT070000	87.4004	88.0341	87.7147	1.3703e-01	1.9002e+00
26	TRT100000	87.5954	88.4348	87.9726	2.0751e-01	1.9002e+00
27	TRT120000	87.4651	88.0956	87.7635	1.4127e-01	1.9002e+00
28	TRT125000	75.1406	76.0918	75.5182	2.0231e-01	1.9000e+00
29	TRT130000	87.3169	87.9473	87.5404	1.3838e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5260	2.2741e-01	1.9011e+00
31	TAF050136	87.4651	88.1993	87.8593	1.5212e-01	1.9002e+00
32	TAF070136	81.3749	82.2162	81.7894	2.2357e-01	1.9001e+00
33	TAF080136	87.3067	87.9338	87.6797	1.5416e-01	1.9002e+00
34	TAF090136	74.4816	75.4365	74.9972	2.7034e-01	1.9000e+00
35	TAF100136	87.1564	87.9989	87.6059	1.7558e-01	1.9002e+00
36	TAF105136	87.2732	88.2132	87.7182	2.4167e-01	1.9002e+00
37	TAF110136	87.2635	87.7887	87.4955	1.2683e-01	1.9002e+00
38	TAF115136	87.7091	88.4427	88.0212	1.7711e-01	1.9002e+00
39	TAF120136	87.5449	87.9658	87.7470	1.0924e-01	1.9002e+00
40	TAF125136	87.4909	88.4314	87.9195	2.3153e-01	1.9002e+00
41	TAF130136	87.3383	87.8638	87.6131	1.3699e-01	1.9002e+00
42	TAF120048	87.5794	88.5301	88.0641	2.3983e-01	1.9002e+00
43	TAF130048	87.3619	87.9925	87.5897	1.2395e-01	1.9002e+00
44	TAF120224	87.3596	88.1995	87.8054	2.1899e-01	1.9002e+00
45	TAF130224	86.9277	87.4548	87.1471	1.1750e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0772	2.1277e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1699	7.0231e-02	1.9010e+00
48	TAI130048	87.3142	88.4698	87.8977	3.0987e-01	1.9002e+00
49	TAI130136	86.8882	87.6228	87.2826	1.7463e-01	1.9002e+00
50	TAI130224	87.8936	88.9463	88.4117	2.6976e-01	1.9002e+00
51	TAI130312	87.3004	88.2469	87.6292	1.9860e-01	1.9002e+00
52	TRR130000	85.9726	86.8124	86.3842	2.0714e-01	1.9002e+00
53	TSI000001	79.2841	80.1292	79.6553	1.6163e-01	1.9001e+00
54	TSI000002	74.9514	75.9049	75.4922	2.4271e-01	1.9000e+00
55	TSO000001	73.0855	73.9392	73.4364	2.1110e-01	1.9000e+00
56	TSO000002	82.0298	82.8745	82.4652	1.9938e-01	1.9001e+00
57	TAF020136	86.7554	87.4946	87.1347	1.5822e-01	1.9002e+00
58	TAF120312	86.9279	87.9776	87.4270	2.6473e-01	1.9002e+00
59	TAF130312	86.7727	87.2986	87.0240	1.4365e-01	1.9002e+00
60	EMPTY	0.5127	0.5176	0.5168	1.8234e-03	0.0000e+00
61	EMPTY	0.5273	0.5322	0.5314	1.8234e-03	0.0000e+00
62	EMPTY	0.5420	0.5469	0.5429	1.9103e-03	0.0000e+00
63	EMPTY	0.5566	0.5615	0.5597	2.3783e-03	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3518	9.7615e-04	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3738	2.4538e-03	0.0000e+00
66	EMPTY	0.3906	0.3906	0.3906	0.0000e+00	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4092	1.9883e-03	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4242	1.6172e-03	0.0000e+00
69	EMPTY	0.4395	0.4443	0.4404	1.9883e-03	0.0000e+00
70	EMPTY	0.4541	0.4639	0.4578	2.3440e-03	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4795	1.9883e-03	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4934	9.7615e-04	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5132	1.4934e-03	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5312	1.9883e-03	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5473	1.3508e-03	0.0000e+00
76	EMPTY	0.5615	0.5615	0.5615	0.0000e+00	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5819	1.8234e-03	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6057	9.7615e-04	0.0000e+00
79	EMPTY	0.6250	0.6348	0.6299	9.9670e-04	0.0000e+00
80	PAN020136	13.8944	14.4285	14.1762	1.0586e-01	8.7072e-01
81	PAN050136	23.9994	24.7623	24.3669	1.9924e-01	1.6811e+00
82	PAN070136	11.3564	11.7378	11.5463	1.1351e-01	8.7048e-01
83	PAN080136	5.0414	5.3466	5.1878	8.2166e-02	8.7010e-01
84	PAN090136	4.3723	4.6775	4.5420	7.9813e-02	8.7007e-01
85	PAN100136	7.0353	7.3405	7.1801	7.5084e-02	8.7019e-01
86	PAN105136	3.9710	4.1999	4.1064	7.5117e-02	8.7006e-01
87	PAN110136	5.9767	6.3582	6.1651	8.8237e-02	8.7014e-01
88	PAN115136	6.6310	6.9362	6.7369	8.6452e-02	8.7016e-01
89	PAN120136	7.7476	8.1291	7.9734	8.2347e-02	8.7023e-01
90	PAN125136	3.1993	3.4281	3.3114	6.4403e-02	8.7004e-01
91	PAN130136	-0.1238	0.1813	0.0303	7.8626e-02	8.7000e-01
92	PAN120048	1.3221	1.6273	1.4700	6.6817e-02	8.7001e-01
93	PAN130048	10.3996	10.7811	10.5678	9.0781e-02	8.7040e-01
94	PAN120224	11.5146	11.8198	11.6610	8.7872e-02	8.7049e-01
95	PAN130224	6.7126	7.0178	6.8652	6.7883e-02	8.7017e-01
96	PAN120312	2.6015	2.9067	2.7993	8.3747e-02	8.7003e-01
97	PAN130312	9.1612	9.5427	9.3652	9.5225e-02	8.7032e-01
98	PAB000136	23.5655	23.7944	23.6767	5.2858e-02	5.8301e-01
99	PAB100136	21.0504	21.1878	21.0859	4.1013e-02	5.8239e-01
100	PAB125136	19.9923	20.1754	20.0866	4.2212e-02	5.8217e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	23.4792	23.9675	23.5913	7.8150e-02	7.5232e-01
102	PRV000001	19.1082	19.2303	19.1531	5.9458e-02	7.5153e-01
103	PSR000001	19.6691	19.7911	19.6765	2.9569e-02	7.5161e-01
104	PFM000001	30.0222	30.6631	30.3380	1.7833e-01	5.0572e-01
105	PAN000136	95.2592	98.9213	97.1370	8.8766e-01	4.9260e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6356e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0056	1.7263e-03	0.0000e+00
108	EMPTY	-10.0000	-4.4727	-7.2937	1.5711e+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	0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-1.0479	-0.6573	-0.8088	9.1482e-02	8.1001e-01
113	VPW000002	-0.8451	-0.6498	-0.7733	9.5132e-02	8.1001e-01
114	VPW000003	-0.9240	-0.3380	-0.6609	1.0955e-01	8.1001e-01
115	VPW000004	-0.8752	-0.2892	-0.6519	1.2607e-01	8.1001e-01
116	VPW000005	-1.4686	-0.8827	-1.3012	1.1276e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4377	1.1161e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.6445	1.1243e+00	8.1004e+00
119	IPW000002	-12.2331	-8.3306	-10.0827	1.2749e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-11.1115	1.2103e+00	8.1005e+00
121	IPW000004	-2.2536	-1.7654	-1.9547	2.4037e-01	2.0001e+00
122	IPW000005	-3.9904	-2.5257	-3.5320	3.6493e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.1898	3.8312e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0208	3.1163e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0136	3.0339e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0146	-0.0171	2.4662e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.1032e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0352	8.5810e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0256	9.2715e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0346	8.7123e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0155	9.7324e-02	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0591	1.0188e-01	4.1000e+00
133	IHT000006	-0.0601	0.1352	0.0435	9.8483e-02	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0282	8.3122e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.1020	8.9148e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0343	7.9328e-02	4.1000e+00
137	IHT000010	-0.1427	0.0526	-0.0909	8.7123e-02	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0651	8.2338e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0855	9.6990e-02	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0871	9.5812e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0319	8.3122e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0329	6.7148e-02	4.1000e+00
143	IHT000016	-0.1352	0.0601	-0.0635	9.5132e-02	4.1000e+00
144	IHT000017	-0.3530	0.4282	0.0296	2.2183e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	-0.0173	1.0533e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2845	1.1644e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0364	9.9629e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0522	1.0315e-01	4.1000e+00
149	IHT000022	0.0037	0.3944	0.1313	1.0204e-01	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1374	7.9736e-02	4.1000e+00
151	IHT000024	-0.4770	-0.2817	-0.3215	7.9532e-02	4.1000e+00
152	IHT000025	-0.1878	0.3981	0.2865	1.1960e-01	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0103	6.7148e-02	4.1000e+00
154	IHT000027	-0.2291	0.1615	-0.0099	7.5986e-02	4.1000e+00
155	IHT000028	-0.2479	0.3381	0.0032	1.1960e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.3080	-0.0229	1.1419e-01	4.1000e+00
157	IHT000030	-0.2103	0.1803	0.0408	9.7656e-02	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0030	1.0378e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	-0.0060	1.0625e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	-0.0020	1.0640e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	0.0023	1.1262e-01	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0756	8.8783e-02	4.1000e+00
163	IHT000036	-0.1878	0.0075	-0.0483	8.9148e-02	4.1000e+00

Velocity 1 = 0.011600 (ft/sec)
 Velocity 2 = 0.000100 (ft/sec)
 Pressure Drop = 0.008900 (psi)
 Tsat in = 0.016296 (deg F) Tsat out = 0.024490 (deg F)
 Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0527	0.0719
1	TRF000002	0.0102	0.0139
2	TFM000001	0.0598	0.0682
3	TIN000001	0.0582	0.0667
4	TRV000001	0.0059	0.0068
5	TSR000001	0.0081	0.0093
6	TAO020136	0.0150	0.0187
7	TAO050136	0.0036	0.0041
8	TAO070136	0.0122	0.0139
9	TAO080136	0.0170	0.0195
10	TAO090136	0.0048	0.0055
11	TAO100136	0.0094	0.0107
12	TAO105136	0.0128	0.0145
13	TAO110136	0.0010	0.0011
14	TAO115136	0.0796	0.0907
15	TAO120136	0.0390	0.0445
16	TAO125136	0.0776	0.0882
17	TAO130136	0.0000	0.0000
18	TAO120048	0.0673	0.0884
19	TAO130048	0.0211	0.0242
20	TAO120224	0.0303	0.0347
21	TAO130224	0.0412	0.0471
22	TAO120312	0.0295	0.0338
23	TAO130312	0.0247	0.0283
24	TRT020000	0.0563	0.0641
25	TRT070000	0.0021	0.0024
26	TRT100000	0.0035	0.0040
27	TRT120000	0.0251	0.0286
28	TRT125000	0.0647	0.0858
29	TRT130000	0.0298	0.0341
30	EMPTY	0.0246	0.0622
31	TAF050136	0.0206	0.0235
32	TAF070136	0.0149	0.0182
33	TAF080136	0.0015	0.0017
34	TAF090136	0.0613	0.0818
35	TAF100136	0.0014	0.0016
36	TAF105136	0.0471	0.0537
37	TAF110136	0.0299	0.0342
38	TAF115136	0.0062	0.0070
39	TAF120136	0.0210	0.0239
40	TAF125136	0.0817	0.0930
41	TAF130136	0.0308	0.0352
42	TAF120048	0.0160	0.0182
43	TAF130048	0.0173	0.0198
44	TAF120224	0.0384	0.0438
45	TAF130224	0.0213	0.0244

#	Name	Abs Diff	%Diff
46	EMPTY	0.0122	0.0320
47	EMPTY	0.0317	0.0809
48	TAI130048	0.0034	0.0039
49	TAI130136	0.0249	0.0285
50	TAI130224	0.0084	0.0095
51	TAI130312	0.0003	0.0003
52	TRR130000	0.0124	0.0143
53	TSI000001	0.0413	0.0519
54	TSI000002	0.0059	0.0078
55	TSO000001	0.0463	0.0630
56	TSO000002	0.0678	0.0823
57	TAF020136	0.0880	0.1011
58	TAF120312	0.0130	0.0149
59	TAF130312	0.0450	0.0517
60	EMPTY	0.0003	0.0580
61	EMPTY	0.0004	0.0752
62	EMPTY	0.0013	0.2389
63	EMPTY	0.0009	0.1605
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0011	0.2934
66	EMPTY	0.0002	0.0512
67	EMPTY	0.0004	0.0977
68	EMPTY	0.0002	0.0471
69	EMPTY	0.0016	0.3620
70	EMPTY	0.0006	0.1309
71	EMPTY	0.0025	0.5187
72	EMPTY	0.0014	0.2829
73	EMPTY	0.0022	0.4269
74	EMPTY	0.0010	0.1879
75	EMPTY	0.0009	0.1642
76	EMPTY	0.0015	0.2664
77	EMPTY	0.0031	0.5299
78	EMPTY	0.0001	0.0165
79	EMPTY	0.0000	0.0000
80	PAN020136	0.0371	0.2610
81	PAN050136	0.0414	0.1696
82	PAN070136	0.0145	0.1254
83	PAN080136	0.0291	0.5578
84	PAN090136	0.0272	0.5953
85	PAN100136	0.0124	0.1724
86	PAN105136	0.0141	0.3422
87	PAN110136	0.0450	0.7353
88	PAN115136	0.0269	0.3977
89	PAN120136	0.0321	0.4010
90	PAN125136	0.0023	0.0694
91	PAN130136	0.0122	67.4033
92	PAN120048	0.0169	1.1366
93	PAN130048	0.0317	0.2991
94	PAN120224	0.0443	0.3785
95	PAN130224	0.0076	0.1108
96	PAN120312	0.0025	0.0894
97	PAN130312	0.0341	0.3628
98	PAB000136	0.0069	0.0291
99	PAB100136	0.0057	0.0270
100	PAB125136	0.0092	0.0458

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0511	0.2171
102	PRV000001	0.0009	0.0047
103	PSR000001	0.0025	0.0127
104	PFM000001	0.0503	0.1661
105	PAN000136	0.2463	0.2529
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0005	9.8039
108	EMPTY	0.0176	0.2407
109	EMPTY	0.0001	2.0833
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0148	1.8640
113	VPW000002	0.0093	1.1883
114	VPW000003	0.0052	0.7807
115	VPW000004	0.0045	0.6856
116	VPW000005	0.0229	1.7295
117	VPW000006	0.0432	2.9171
118	IPW000001	0.1188	1.2168
119	IPW000002	0.2692	2.7432
120	IPW000003	0.1210	1.1009
121	IPW000004	0.0548	2.7270
122	IPW000005	0.0092	0.2598
123	IPW000006	0.0318	1.4314
124	EMPTY	0.0001	0.4831
125	EMPTY	0.0007	5.4264
126	EMPTY	0.0017	9.0425
127	EMPTY	0.0009	5.8065
128	IHT000001	0.0161	84.2932
129	IHT000002	0.0042	14.0940
130	IHT000003	0.0146	73.0000
131	IHT000004	0.0041	35.9649
132	IHT000005	0.0322	119.7026
133	IHT000006	0.0253	36.7733
134	IHT000007	0.0111	64.9123
135	IHT000008	0.0106	11.5974
136	IHT000009	0.0197	134.9315
137	IHT000010	0.0029	3.2955
138	IHT000011	0.0304	87.6081
139	IHT000012	0.0023	2.7644
140	IHT000013	0.0128	12.8128
141	IHT000014	0.0475	304.4872
142	IHT000015	0.0192	140.1460
143	IHT000016	0.0338	113.8047
144	IHT000017	0.0353	54.3914
145	IHT000018	0.0203	676.6667
146	IHT000019	0.0557	24.3444
147	IHT000020	0.0356	49.4444
148	IHT000021	0.0611	686.5168
149	IHT000022	0.0260	24.6914
150	IHT000023	0.0112	8.8748
151	IHT000024	0.0383	10.6448
152	IHT000025	0.0055	1.9573
153	IHT000026	0.0036	53.7314
154	IHT000027	0.0044	30.7692
155	IHT000028	0.0302	90.4192

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0051	18.2143
157	IHT000030	0.0011	2.7708
158	IHT000031	0.0380	92.6829
159	IHT000032	0.0213	78.0220
160	IHT000033	0.0254	92.7007
161	IHT000034	0.0281	108.9147
162	IHT000035	0.0236	45.3846
163	IHT000036	0.0262	35.1678

Velocity 1 = 11.9702 (ft/sec) (+/- 2.0240 %)
 Velocity 2 = 11.4269 (ft/sec) (+/- 1.7315 %)
 Pressure drop = 1.2539 (psi)
 Tsat in = 230.7655 (deg F) Tsat out = 227.0917 (deg F)
 Phi inner = 0.0045 (kBtu/hr-ft2) (+/- 132.0604 %)
 Phi outer = 0.0073 (kBtu/hr-ft2) (+/- 124.7036 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.0535	73.6941	73.3482	1.9240e-01	1.9000e+00
1	TRF000002	73.3239	73.7485	73.5065	1.2876e-01	1.9000e+00
2	TFM000001	87.5465	88.3864	87.9793	1.9504e-01	1.9002e+00
3	TIN000001	87.2689	88.0060	87.6017	1.5824e-01	1.9002e+00
4	TRV000001	87.2226	88.0623	87.6133	2.1192e-01	1.9002e+00
5	TSR000001	87.0576	88.0023	87.5069	1.8734e-01	1.9002e+00
6	TAO020136	79.8682	80.8216	80.3513	2.4498e-01	1.9001e+00
7	TAO050136	87.5386	88.2737	87.9707	1.8181e-01	1.9002e+00
8	TAO070136	87.6145	88.4569	88.0273	2.0730e-01	1.9002e+00
9	TAO080136	87.1319	88.2843	87.6308	2.0265e-01	1.9002e+00
10	TAO090136	87.5326	88.3728	88.0407	1.7273e-01	1.9002e+00
11	TAO100136	87.5539	88.2899	87.8653	1.7110e-01	1.9002e+00
12	TAO105136	88.0554	88.8967	88.4427	2.1075e-01	1.9002e+00
13	TAO110136	87.8624	88.4896	88.1723	1.7427e-01	1.9002e+00
14	TAO115136	87.6819	88.8374	88.1405	2.4652e-01	1.9002e+00
15	TAO120136	87.4822	88.3233	87.8902	1.6676e-01	1.9002e+00
16	TAO125136	87.9092	88.7493	88.2832	1.9791e-01	1.9002e+00
17	TAO130136	87.4860	88.4261	87.7591	1.8761e-01	1.9002e+00
18	TAO120048	75.7682	77.0405	76.3364	2.9967e-01	1.9000e+00
19	TAO130048	87.2863	87.8129	87.5516	1.4599e-01	1.9002e+00
20	TAO120224	87.3059	88.1471	87.7097	1.6775e-01	1.9002e+00
21	TAO130224	87.3458	88.2883	87.7856	2.1188e-01	1.9002e+00
22	TAO120312	87.2948	88.1369	87.6403	1.6475e-01	1.9002e+00
23	TAO130312	87.2154	88.0552	87.5343	1.7752e-01	1.9002e+00
24	TRT020000	87.8441	88.5809	88.2020	1.9139e-01	1.9002e+00
25	TRT070000	87.6118	88.4552	87.9998	1.7495e-01	1.9002e+00
26	TRT100000	87.9097	88.7495	88.3168	1.6508e-01	1.9002e+00
27	TRT120000	87.6749	88.5155	88.0364	1.6875e-01	1.9002e+00
28	TRT125000	75.0345	75.5663	75.2855	1.4624e-01	1.9000e+00
29	TRT130000	87.5264	88.1574	87.7790	1.3773e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5414	2.3209e-01	1.9011e+00
31	TAF050136	87.7792	88.5138	88.1526	1.7999e-01	1.9002e+00
32	TAF070136	81.4793	82.3222	81.9722	2.0214e-01	1.9001e+00
33	TAF080136	87.6178	88.3524	87.9703	1.7166e-01	1.9002e+00
34	TAF090136	74.2696	75.5423	75.0081	2.8498e-01	1.9000e+00
35	TAF100136	87.5780	88.4197	87.9398	1.6358e-01	1.9002e+00
36	TAF105136	87.3759	88.4219	88.0032	2.6168e-01	1.9002e+00
37	TAF110136	87.3685	87.9991	87.7378	1.7889e-01	1.9002e+00
38	TAF115136	87.7081	88.7514	88.2914	2.0455e-01	1.9002e+00
39	TAF120136	87.7539	88.2802	87.9939	1.3114e-01	1.9002e+00
40	TAF125136	87.5942	88.6401	88.1090	2.5177e-01	1.9002e+00
41	TAF130136	87.5478	88.2835	87.8339	1.6033e-01	1.9002e+00
42	TAF120048	87.8966	88.8452	88.3690	2.4137e-01	1.9002e+00
43	TAF130048	87.5716	88.3076	87.8452	1.5471e-01	1.9002e+00
44	TAF120224	87.6747	88.4095	88.0857	1.9992e-01	1.9002e+00
45	TAF130224	87.1387	87.7712	87.4126	1.4595e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	1.9795e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2245	1.0988e-01	1.9010e+00
48	TAI130048	87.6292	88.6796	88.2512	2.7892e-01	1.9002e+00
49	TAI130136	87.0975	87.9376	87.5218	2.1185e-01	1.9002e+00
50	TAI130224	88.1041	89.0517	88.6853	2.4898e-01	1.9002e+00
51	TAI130312	87.6159	88.2475	87.9317	1.4872e-01	1.9002e+00
52	TRR130000	86.0777	87.2312	86.6648	2.5840e-01	1.9002e+00
53	TSI000001	79.7056	80.3404	80.0188	1.7476e-01	1.9001e+00
54	TSI000002	75.0574	76.3287	75.6126	2.7771e-01	1.9000e+00
55	TSO000001	72.8727	73.9392	73.5082	2.0320e-01	1.9000e+00
56	TSO000002	81.9252	83.0858	82.7054	2.5046e-01	1.9001e+00
57	TAF020136	86.9670	87.8116	87.3891	2.0895e-01	1.9002e+00
58	TAF120312	87.1378	88.1873	87.7297	2.7793e-01	1.9002e+00
59	TAF130312	86.8774	87.6138	87.2770	1.6034e-01	1.9002e+00
60	EMPTY	0.5176	0.5273	0.5223	1.3811e-03	0.0000e+00
61	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
62	EMPTY	0.5469	0.5518	0.5486	2.3675e-03	0.0000e+00
63	EMPTY	0.5615	0.5713	0.5646	2.5894e-03	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3521	1.4797e-03	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3749	2.0432e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3905	6.9053e-04	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4098	1.3381e-03	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4245	1.1714e-03	0.0000e+00
69	EMPTY	0.4395	0.4443	0.4415	2.4344e-03	0.0000e+00
70	EMPTY	0.4541	0.4688	0.4589	1.8429e-03	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4814	2.4164e-03	0.0000e+00
72	EMPTY	0.4883	0.4980	0.4939	2.0598e-03	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5144	2.3365e-03	0.0000e+00
74	EMPTY	0.5273	0.5371	0.5316	1.8821e-03	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5471	9.6655e-04	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5618	1.1714e-03	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5823	2.1635e-03	0.0000e+00
78	EMPTY	0.6006	0.6104	0.6056	1.2041e-03	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6297	9.6655e-04	0.0000e+00
80	PAN020136	5.6547	5.9598	5.8317	9.1760e-02	8.7012e-01
81	PAN050136	8.7406	9.3510	9.0702	1.4900e-01	1.6802e+00
82	PAN070136	2.4300	2.7351	2.5963	7.6589e-02	8.7002e-01
83	PAN080136	0.7689	0.9978	0.8971	8.2200e-02	8.7000e-01
84	PAN090136	0.2525	0.5576	0.3684	7.4306e-02	8.7000e-01
85	PAN100136	2.2288	2.5340	2.3814	7.8595e-02	8.7002e-01
86	PAN105136	1.4533	1.7585	1.6104	7.9212e-02	8.7001e-01
87	PAN110136	2.9249	3.1538	3.0577	6.1288e-02	8.7003e-01
88	PAN115136	3.3504	3.6556	3.4969	8.1328e-02	8.7004e-01
89	PAN120136	4.0855	4.6196	4.3846	8.5598e-02	8.7007e-01
90	PAN125136	0.8341	1.1393	0.9944	7.2706e-02	8.7000e-01
91	PAN130136	-1.4971	-1.2682	-1.4071	6.2970e-02	8.7001e-01
92	PAN120048	-2.1111	-1.8060	-1.9326	7.8003e-02	8.7001e-01
93	PAN130048	4.6013	4.9065	4.7951	7.2641e-02	8.7008e-01
94	PAN120224	5.5637	5.7926	5.6644	7.6200e-02	8.7012e-01
95	PAN130224	2.0587	2.3639	2.2158	6.7908e-02	8.7002e-01
96	PAN120312	-0.9843	-0.6791	-0.8424	7.0651e-02	8.7000e-01
97	PAN130312	3.8207	3.9733	3.9061	3.6606e-02	8.7005e-01
98	PAB000136	21.0936	21.2309	21.1659	4.3467e-02	5.8241e-01
99	PAB100136	20.1807	20.3180	20.2567	3.8809e-02	5.8221e-01
100	PAB125136	19.7176	19.8092	19.7671	3.4405e-02	5.8210e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	20.9157	21.1599	21.0768	6.2585e-02	7.5185e-01
102	PRV000001	19.2303	19.3524	19.2327	1.7263e-02	7.5154e-01
103	PSR000001	19.5470	19.6691	19.6642	2.4164e-02	7.5161e-01
104	PFM000001	21.6909	22.2402	21.9107	1.1551e-01	5.0299e-01
105	PAN000136	33.9189	35.2922	34.7154	3.4368e-01	4.9208e+00
106	PFM000002	19.4139	20.3200	19.9518	1.8775e-01	2.0613e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-5.6445	-7.2891	1.3188e+00	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	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-0.8526	-0.6573	-0.7667	9.7935e-02	8.1001e-01
113	VPW000002	-1.0404	-0.6498	-0.7787	1.0145e-01	8.1001e-01
114	VPW000003	-0.9240	-0.3380	-0.6544	1.1765e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6447	1.0942e-01	8.1001e-01
116	VPW000005	-1.6639	-1.0780	-1.3319	1.1334e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4653	9.9902e-02	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.4899	1.0902e+00	8.1003e+00
119	IPW000002	-12.2331	-6.3793	-9.6184	1.3432e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-11.1855	1.0431e+00	8.1005e+00
121	IPW000004	-2.7419	-1.2771	-1.9997	2.8317e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5314	3.1825e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2021	3.6326e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0197	3.2658e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.7356e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0166	2.7902e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.5307e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0308	9.0412e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0571	8.1347e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0434	8.1729e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0153	1.0410e-01	4.1000e+00
132	IHT000005	-0.2066	-0.0113	-0.0620	8.6541e-02	4.1000e+00
133	IHT000006	-0.0601	0.1352	0.0219	9.7377e-02	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0523	6.7888e-02	4.1000e+00
135	IHT000008	-0.1578	0.2329	-0.0796	1.0440e-01	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0224	8.3612e-02	4.1000e+00
137	IHT000010	-0.1427	0.0526	-0.0724	9.4702e-02	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0542	8.8585e-02	4.1000e+00
139	IHT000012	-0.3606	0.2254	-0.0871	1.1838e-01	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0882	9.5112e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0156	9.5357e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0176	8.2393e-02	4.1000e+00
143	IHT000016	-0.3305	0.0601	-0.0493	1.0559e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.0610	2.5767e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	-0.0165	1.1161e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2757	8.8233e-02	4.1000e+00
147	IHT000020	-0.2517	0.3343	-0.0525	8.3612e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0263	1.0625e-01	4.1000e+00
149	IHT000022	0.0037	0.3944	0.1209	1.0440e-01	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1379	9.6735e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.3168	9.4125e-02	4.1000e+00
152	IHT000025	0.2028	0.5935	0.2692	1.0145e-01	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0028	9.3710e-02	4.1000e+00
154	IHT000027	-0.2291	0.1615	-0.0221	8.2864e-02	4.1000e+00
155	IHT000028	-0.0526	0.3381	0.0256	1.1161e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.3080	-0.0162	1.0145e-01	4.1000e+00
157	IHT000030	-0.0150	0.3756	0.0670	1.1223e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0215	1.1679e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	0.0156	1.2534e-01	4.1000e+00
160	IHT000033	-0.0977	0.4883	0.0234	1.3021e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0180	8.1347e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0676	1.2478e-01	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0394	1.0106e-01	4.1000e+00

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Velocity 1 = 11.9649 (ft/sec) (+/- 2.0245 %)
Velocity 2 = 11.4103 (ft/sec) (+/- 1.7318 %)
Pressure drop = 1.2518 (psi)
Tsat in = 230.8602 (deg F) Tsat out = 227.2826 (deg F)
Phi inner = 0.0046 (kBtu/hr-ft2) (+/- 130.2538 %)
Phi outer = 0.0074 (kBtu/hr-ft2) (+/- 124.1810 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.8399	73.6941	73.3150	1.7580e-01	1.9000e+00
1	TRF000002	73.3239	73.7485	73.4626	1.3394e-01	1.9000e+00
2	TFM000001	87.6512	88.4912	87.9858	1.9476e-01	1.9002e+00
3	TIN000001	87.2687	87.9005	87.5892	1.3412e-01	1.9002e+00
4	TRV000001	87.1190	87.9582	87.5527	2.1052e-01	1.9002e+00
5	TSR000001	87.1612	87.7933	87.4645	1.4955e-01	1.9002e+00
6	TAO020136	79.7626	80.7155	80.2683	2.6665e-01	1.9001e+00
7	TAO050136	87.6419	88.4824	87.9195	1.6813e-01	1.9002e+00
8	TAO070136	87.5090	88.4572	87.9950	2.0149e-01	1.9002e+00
9	TAO080136	87.2351	88.0757	87.5682	1.7172e-01	1.9002e+00
10	TAO090136	87.6376	88.5814	88.0166	1.9363e-01	1.9002e+00
11	TAO100136	87.5539	88.0804	87.7945	1.3742e-01	1.9002e+00
12	TAO105136	88.0552	88.8969	88.4484	1.9874e-01	1.9002e+00
13	TAO110136	87.8630	88.4919	88.1463	1.6135e-01	1.9002e+00
14	TAO115136	87.7865	88.6284	88.1540	2.1361e-01	1.9002e+00
15	TAO120136	87.3766	88.2185	87.8684	1.7211e-01	1.9002e+00
16	TAO125136	87.6998	88.5394	88.2223	1.9564e-01	1.9002e+00
17	TAO130136	87.3804	88.0124	87.7429	1.4802e-01	1.9002e+00
18	TAO120048	75.8742	76.8282	76.3392	2.5204e-01	1.9000e+00
19	TAO130048	87.1808	87.8129	87.5226	1.3822e-01	1.9002e+00
20	TAO120224	87.0953	87.9373	87.6686	1.6355e-01	1.9002e+00
21	TAO130224	87.3458	88.0803	87.7432	2.0862e-01	1.9002e+00
22	TAO120312	87.1898	88.1369	87.6666	2.1056e-01	1.9002e+00
23	TAO130312	87.2137	87.8458	87.5427	1.5568e-01	1.9002e+00
24	TRT020000	87.7390	88.5811	88.1492	2.0528e-01	1.9002e+00
25	TRT070000	87.6118	88.3503	87.9648	1.9081e-01	1.9002e+00
26	TRT100000	87.8047	88.7495	88.2416	2.2683e-01	1.9002e+00
27	TRT120000	87.6741	88.3060	88.0030	1.4962e-01	1.9002e+00
28	TRT125000	74.9298	75.6705	75.2773	1.6300e-01	1.9000e+00
29	TRT130000	87.3179	88.0529	87.7541	1.6381e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.4745	2.2958e-01	1.9010e+00
31	TAF050136	87.5687	88.6186	88.1365	1.8033e-01	1.9002e+00
32	TAF070136	81.5830	82.4276	81.9562	2.0818e-01	1.9001e+00
33	TAF080136	87.6178	88.3524	87.9133	1.5520e-01	1.9002e+00
34	TAF090136	74.3763	75.5423	75.0144	2.7512e-01	1.9000e+00
35	TAF100136	87.3669	88.3142	87.8635	1.9336e-01	1.9002e+00
36	TAF105136	87.3759	88.5268	87.9901	2.4906e-01	1.9002e+00
37	TAF110136	87.3671	87.9977	87.7216	1.6819e-01	1.9002e+00
38	TAF115136	87.8120	88.6530	88.2519	1.8509e-01	1.9002e+00
39	TAF120136	87.6483	88.2802	87.9644	1.3743e-01	1.9002e+00
40	TAF125136	87.5942	88.7427	88.0936	2.6455e-01	1.9002e+00
41	TAF130136	87.4422	88.2835	87.8353	1.7909e-01	1.9002e+00
42	TAF120048	87.6853	88.8452	88.2624	2.3986e-01	1.9002e+00
43	TAF130048	87.4660	88.3076	87.8078	1.6272e-01	1.9002e+00
44	TAF120224	87.6731	88.4089	88.0319	1.7267e-01	1.9002e+00
45	TAF130224	87.0331	87.8761	87.4140	1.6914e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0866	1.8666e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1980	1.0756e-01	1.9010e+00
48	TAI130048	87.7342	88.7844	88.2274	2.6866e-01	1.9002e+00
49	TAI130136	87.0975	87.8333	87.4918	1.9801e-01	1.9002e+00
50	TAI130224	88.1042	89.1566	88.6177	2.7719e-01	1.9002e+00
51	TAI130312	87.4057	88.3521	87.8823	2.0375e-01	1.9002e+00
52	TRR130000	86.0782	87.1256	86.6701	2.4437e-01	1.9002e+00
53	TSI000001	79.4949	80.4460	79.9648	1.7530e-01	1.9001e+00
54	TSI000002	75.0574	76.1174	75.6518	2.8653e-01	1.9000e+00
55	TSO000001	72.9793	73.9387	73.4974	1.9342e-01	1.9000e+00
56	TSO000002	82.2408	83.1911	82.6718	2.1197e-01	1.9001e+00
57	TAF020136	86.9670	87.7061	87.3504	1.8248e-01	1.9002e+00
58	TAF120312	87.2420	88.1880	87.6667	2.6675e-01	1.9002e+00
59	TAF130312	86.8774	87.6138	87.2208	1.6592e-01	1.9002e+00
60	EMPTY	0.5176	0.5273	0.5223	1.9832e-03	0.0000e+00
61	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
62	EMPTY	0.5469	0.5518	0.5480	2.0584e-03	0.0000e+00
63	EMPTY	0.5615	0.5664	0.5646	2.3783e-03	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3519	1.1827e-03	0.0000e+00
65	EMPTY	0.3662	0.3760	0.3746	2.4414e-03	0.0000e+00
66	EMPTY	0.3906	0.3906	0.3906	0.0000e+00	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4100	9.7615e-04	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4243	1.4934e-03	0.0000e+00
69	EMPTY	0.4395	0.4443	0.4408	2.2287e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4586	1.3508e-03	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4805	2.4247e-03	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4936	1.3508e-03	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5137	1.9883e-03	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5314	1.8234e-03	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5472	1.1827e-03	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5625	1.9883e-03	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5820	1.9103e-03	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6056	6.9754e-04	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6296	1.1827e-03	0.0000e+00
80	PAN020136	5.6547	5.9598	5.8135	9.1919e-02	8.7012e-01
81	PAN050136	8.8932	9.5036	9.0676	1.4938e-01	1.6802e+00
82	PAN070136	2.3537	2.6588	2.5670	7.6261e-02	8.7002e-01
83	PAN080136	0.7689	0.9978	0.8795	8.1014e-02	8.7000e-01
84	PAN090136	0.2525	0.4813	0.3583	7.4389e-02	8.7000e-01
85	PAN100136	2.2288	2.5340	2.3752	6.7591e-02	8.7002e-01
86	PAN105136	1.4533	1.7585	1.5996	8.2166e-02	8.7001e-01
87	PAN110136	2.9249	3.1538	3.0526	7.8469e-02	8.7003e-01
88	PAN115136	3.3504	3.6556	3.4843	7.0564e-02	8.7004e-01
89	PAN120136	4.2381	4.5433	4.4078	9.1162e-02	8.7007e-01
90	PAN125136	0.7579	1.0630	0.9416	7.9284e-02	8.7000e-01
91	PAN130136	-1.4971	-1.2682	-1.4021	5.7285e-02	8.7001e-01
92	PAN120048	-2.0348	-1.8060	-1.9336	6.8572e-02	8.7001e-01
93	PAN130048	4.6776	4.9065	4.7695	7.3012e-02	8.7008e-01
94	PAN120224	5.5637	5.7926	5.6540	7.2502e-02	8.7011e-01
95	PAN130224	2.0587	2.3639	2.2066	7.6940e-02	8.7002e-01
96	PAN120312	-0.9843	-0.6791	-0.8582	6.5243e-02	8.7000e-01
97	PAN130312	3.8970	4.2021	4.0324	4.7404e-02	8.7006e-01
98	PAB000136	21.0936	21.3224	21.2029	4.4633e-02	5.8242e-01
99	PAB100136	20.2265	20.4553	20.3059	4.1553e-02	5.8222e-01
100	PAB125136	19.7634	19.9007	19.8381	3.4578e-02	5.8212e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	21.0378	21.2819	21.1599	2.4917e-02	7.5186e-01
102	PRV000001	19.1082	19.3524	19.2303	2.4917e-02	7.5154e-01
103	PSR000001	19.6691	19.7911	19.6740	2.4404e-02	7.5161e-01
104	PFM000001	21.5994	22.4234	21.8908	1.6681e-01	5.0299e-01
105	PAN000136	33.9189	35.2922	34.6569	2.7745e-01	4.9208e+00
106	PFM000002	19.0280	20.5717	19.8933	2.9369e-01	2.0609e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9754e-04	0.0000e+00
108	EMPTY	-10.0000	-2.5293	-7.3415	1.7489e+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	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.8526	-0.6573	-0.7928	9.0949e-02	8.1001e-01
113	VPW000002	-1.0404	-0.6498	-0.7733	1.0315e-01	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6768	9.5812e-02	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6161	1.0836e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.3211	1.1644e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4895	1.0299e-01	8.1005e-01
118	IPW000001	-11.6766	-5.8195	-9.4453	1.2602e+00	8.1003e+00
119	IPW000002	-12.2331	-6.3793	-9.9633	1.4551e+00	8.1004e+00
120	IPW000003	-12.8625	-5.0625	-10.9125	1.4893e+00	8.1005e+00
121	IPW000004	-2.2536	-1.7654	-1.9647	2.4247e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.4822	2.9830e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.1898	3.2718e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0206	3.7645e-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	3.2594e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	4.0723e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0272	7.8092e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0455	6.8582e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0186	9.3931e-02	4.1000e+00
131	IHT000004	-0.3981	0.3831	-0.0195	1.2229e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0471	1.0299e-01	4.1000e+00
133	IHT000006	-0.2554	0.3305	0.0435	1.1348e-01	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0322	7.9736e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0980	9.0949e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0223	7.4477e-02	4.1000e+00
137	IHT000010	-0.3380	0.2479	-0.0869	1.0548e-01	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0531	1.0548e-01	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0736	9.8483e-02	4.1000e+00
140	IHT000013	-0.0563	0.1390	0.0871	8.7123e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0080	7.9328e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0329	7.8092e-02	4.1000e+00
143	IHT000016	-0.3305	0.0601	-0.0595	1.0409e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.0695	2.2321e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	-0.0054	1.0548e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2805	9.9792e-02	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0484	7.9328e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0482	1.0409e-01	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1353	9.2540e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1693	8.4477e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.3176	8.6187e-02	4.1000e+00
152	IHT000025	0.2028	0.3981	0.3065	9.8483e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0223	8.4477e-02	4.1000e+00
154	IHT000027	-0.2291	0.1615	0.0100	9.1482e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	-0.0207	1.2189e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.1127	-0.0308	8.7123e-02	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0368	1.1810e-01	4.1000e+00
158	IHT000031	-0.3418	0.2441	-0.0548	1.2028e-01	4.1000e+00
159	IHT000032	-0.0976	0.6836	-0.0219	1.3705e-01	4.1000e+00
160	IHT000033	-0.2930	0.0976	-0.0459	9.5812e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0376	1.1960e-01	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0317	9.4962e-02	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0682	1.1838e-01	4.1000e+00

Velocity 1 = 0.005300 (ft/sec)
 Velocity 2 = 0.016600 (ft/sec)
 Pressure Drop = 0.002100 (psi)
 Tsat in = 0.094696 (deg F) Tsat out = 0.190887 (deg F)
 Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0332	0.0453
1	TRF000002	0.0439	0.0597
2	TFM000001	0.0065	0.0074
3	TIN000001	0.0125	0.0143
4	TRV000001	0.0606	0.0692
5	TSR000001	0.0424	0.0484
6	TAO020136	0.0830	0.1033
7	TAO050136	0.0512	0.0582
8	TAO070136	0.0323	0.0367
9	TAO080136	0.0626	0.0714
10	TAO090136	0.0241	0.0274
11	TAO100136	0.0708	0.0806
12	TAO105136	0.0057	0.0064
13	TAO110136	0.0260	0.0295
14	TAO115136	0.0135	0.0153
15	TAO120136	0.0218	0.0248
16	TAO125136	0.0609	0.0690
17	TAO130136	0.0162	0.0185
18	TAO120048	0.0028	0.0037
19	TAO130048	0.0290	0.0331
20	TAO120224	0.0411	0.0469
21	TAO130224	0.0424	0.0483
22	TAO120312	0.0263	0.0300
23	TAO130312	0.0084	0.0096
24	TRT020000	0.0528	0.0599
25	TRT070000	0.0350	0.0398
26	TRT100000	0.0752	0.0852
27	TRT120000	0.0334	0.0379
28	TRT125000	0.0082	0.0109
29	TRT130000	0.0249	0.0284
30	EMPTY	0.0669	0.1692
31	TAF050136	0.0161	0.0183
32	TAF070136	0.0160	0.0195
33	TAF080136	0.0570	0.0648
34	TAF090136	0.0063	0.0084
35	TAF100136	0.0763	0.0868
36	TAF105136	0.0131	0.0149
37	TAF110136	0.0162	0.0185
38	TAF115136	0.0395	0.0447
39	TAF120136	0.0295	0.0335
40	TAF125136	0.0154	0.0175
41	TAF130136	0.0014	0.0016
42	TAF120048	0.1066	0.1206
43	TAF130048	0.0374	0.0426
44	TAF120224	0.0538	0.0611
45	TAF130224	0.0011	0.0016

#	Name	Abs Diff	%Diff
46	EMPTY	0.0120	0.0315
47	EMPTY	0.0265	0.0676
48	TAI130048	0.0238	0.0270
49	TAI130136	0.0300	0.0343
50	TAI130224	0.0676	0.0762
51	TAI130312	0.0494	0.0562
52	TRR130000	0.0053	0.0061
53	TSI000001	0.0540	0.0675
54	TSI000002	0.0392	0.0518
55	TSO000001	0.0108	0.0147
56	TSO000002	0.0336	0.0406
57	TAF020136	0.0387	0.0443
58	TAF120312	0.0630	0.0718
59	TAF130312	0.0562	0.0644
60	EMPTY	0.0000	0.0000
61	EMPTY	0.0001	0.0186
62	EMPTY	0.0006	0.1094
63	EMPTY	0.0000	0.0000
64	EMPTY	0.0002	0.0568
65	EMPTY	0.0003	0.0800
66	EMPTY	0.0001	0.0256
67	EMPTY	0.0002	0.0488
68	EMPTY	0.0002	0.0471
69	EMPTY	0.0007	0.1585
70	EMPTY	0.0003	0.0654
71	EMPTY	0.0009	0.1870
72	EMPTY	0.0003	0.0607
73	EMPTY	0.0007	0.1361
74	EMPTY	0.0002	0.0376
75	EMPTY	0.0001	0.0183
76	EMPTY	0.0007	0.1246
77	EMPTY	0.0003	0.0515
78	EMPTY	0.0000	0.0000
79	EMPTY	0.0001	0.0159
80	PAN020136	0.0182	0.3121
81	PAN050136	0.0026	0.0287
82	PAN070136	0.0293	1.1285
83	PAN080136	0.0176	1.9619
84	PAN090136	0.0101	2.7416
85	PAN100136	0.0062	0.2604
86	PAN105136	0.0108	0.6706
87	PAN110136	0.0051	0.1668
88	PAN115136	0.0126	0.3603
89	PAN120136	0.0232	0.5291
90	PAN125136	0.0528	5.3097
91	PAN130136	0.0050	0.3553
92	PAN120048	0.0010	0.0517
93	PAN130048	0.0256	0.5339
94	PAN120224	0.0104	0.1836
95	PAN130224	0.0092	0.4152
96	PAN120312	0.0158	1.8756
97	PAN130312	0.1263	3.2334
98	PAB000136	0.0370	0.1748
99	PAB100136	0.0492	0.2429
100	PAB125136	0.0710	0.3592

#	Name	Abs Diff	%Diff
101	PIN000001	0.0831	0.3943
102	PRV000001	0.0024	0.0125
103	PSR000001	0.0098	0.0498
104	PFM000001	0.0199	0.0908
105	PAN000136	0.0585	0.1685
106	PFM000002	0.0585	0.2932
107	EMPTY	0.0001	2.0408
108	EMPTY	0.0524	0.7189
109	EMPTY	0.0004	9.0909
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0261	3.4042
113	VPW000002	0.0054	0.6935
114	VPW000003	0.0224	3.4230
115	VPW000004	0.0286	4.4362
116	VPW000005	0.0108	0.8109
117	VPW000006	0.0242	1.6515
118	IPW000001	0.0446	0.4700
119	IPW000002	0.3449	3.5858
120	IPW000003	0.2730	2.4407
121	IPW000004	0.0350	1.7503
122	IPW000005	0.0492	1.3932
123	IPW000006	0.0123	0.5586
124	EMPTY	0.0009	4.5685
125	EMPTY	0.0003	2.1739
126	EMPTY	0.0002	1.2048
127	EMPTY	0.0005	3.1446
128	IHT000001	0.0036	11.6883
129	IHT000002	0.0116	20.3152
130	IHT000003	0.0248	57.1429
131	IHT000004	0.0042	27.4510
132	IHT000005	0.0149	24.0323
133	IHT000006	0.0216	98.6301
134	IHT000007	0.0201	38.4321
135	IHT000008	0.0184	23.1156
136	IHT000009	0.0001	0.4464
137	IHT000010	0.0145	20.0276
138	IHT000011	0.0011	2.0295
139	IHT000012	0.0135	15.4994
140	IHT000013	0.0011	1.2472
141	IHT000014	0.0076	48.7179
142	IHT000015	0.0153	86.9318
143	IHT000016	0.0102	20.6897
144	IHT000017	0.0085	13.9344
145	IHT000018	0.0111	67.2727
146	IHT000019	0.0048	1.7410
147	IHT000020	0.0041	7.8095
148	IHT000021	0.0219	83.2700
149	IHT000022	0.0144	11.9107
150	IHT000023	0.0314	22.7701
151	IHT000024	0.0008	0.2525
152	IHT000025	0.0373	13.8559
153	IHT000026	0.0195	696.4285
154	IHT000027	0.0321	145.2489
155	IHT000028	0.0463	180.8594

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0146	90.1235
157	IHT000030	0.0302	45.0746
158	IHT000031	0.0333	154.8837
159	IHT000032	0.0375	240.3846
160	IHT000033	0.0693	296.1538
161	IHT000034	0.0196	108.8889
162	IHT000035	0.0359	53.1065
163	IHT000036	0.0288	73.0965

Velocity 1 = 12.0181 (ft/sec) (+/- 2.0189 %)
 Velocity 2 = 11.4836 (ft/sec) (+/- 1.7303 %)
 Pressure drop = 1.2946 (psi)
 Tsat in = 231.1519 (deg F) Tsat out = 227.3473 (deg F)
 Phi inner = 0.0042 (kBtu/hr-ft2) (+/- 135.9391 %)
 Phi outer = 0.0070 (kBtu/hr-ft2) (+/- 127.5021 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.2671	73.9075	73.5617	1.8244e-01	1.9000e+00
1	TRF000002	73.5362	73.9608	73.7060	1.3562e-01	1.9000e+00
2	TFM000001	88.3864	89.2251	88.8078	1.7910e-01	1.9002e+00
3	TIN000001	88.0052	88.7415	88.3775	1.6213e-01	1.9002e+00
4	TRV000001	87.9562	88.7955	88.3358	1.8183e-01	1.9002e+00
5	TSR000001	88.5222	89.1522	88.7934	1.5425e-01	1.9002e+00
6	TAO020136	80.9265	81.7731	81.3352	2.1050e-01	1.9001e+00
7	TAO050136	88.3752	89.0050	88.7089	1.6495e-01	1.9002e+00
8	TAO070136	88.2459	89.1937	88.7202	2.1407e-01	1.9002e+00
9	TAO080136	87.9684	88.7031	88.3647	1.5028e-01	1.9002e+00
10	TAO090136	88.4760	89.2101	88.8349	1.4538e-01	1.9002e+00
11	TAO100136	88.2884	88.9191	88.6224	1.4184e-01	1.9002e+00
12	TAO105136	88.8961	89.7368	89.2180	2.2199e-01	1.9002e+00
13	TAO110136	88.5921	89.5339	88.9588	1.6803e-01	1.9002e+00
14	TAO115136	88.6275	89.3630	88.9368	1.8424e-01	1.9002e+00
15	TAO120136	88.3222	89.0580	88.6313	1.7425e-01	1.9002e+00
16	TAO125136	88.6433	89.5872	89.0650	2.0912e-01	1.9002e+00
17	TAO130136	88.2151	88.8431	88.5588	1.5117e-01	1.9002e+00
18	TAO120048	76.7217	77.6762	77.2455	3.1408e-01	1.9000e+00
19	TAO130048	87.9152	88.6504	88.3579	1.4748e-01	1.9002e+00
20	TAO120224	88.0410	88.9866	88.4718	1.6878e-01	1.9002e+00
21	TAO130224	88.1803	89.3298	88.5386	2.4489e-01	1.9002e+00
22	TAO120312	88.0312	88.8723	88.4751	1.6501e-01	1.9002e+00
23	TAO130312	87.9486	88.6841	88.3456	1.4440e-01	1.9002e+00
24	TRT020000	88.5811	89.4224	88.9533	2.0403e-01	1.9002e+00
25	TRT070000	88.4552	89.1932	88.7868	1.6629e-01	1.9002e+00
26	TRT100000	88.6430	89.5871	89.0313	2.1308e-01	1.9002e+00
27	TRT120000	88.5142	89.2489	88.8022	1.5270e-01	1.9002e+00
28	TRT125000	75.3538	76.1983	75.7951	1.7961e-01	1.9000e+00
29	TRT130000	88.2607	88.9957	88.6072	1.4282e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5597	1.9677e-01	1.9011e+00
31	TAF050136	88.5118	89.2467	88.8875	1.7348e-01	1.9002e+00
32	TAF070136	82.4253	83.4771	82.8355	2.2597e-01	1.9001e+00
33	TAF080136	88.3503	89.0816	88.7240	1.6243e-01	1.9002e+00
34	TAF090136	75.2247	76.2850	75.8159	2.5069e-01	1.9000e+00
35	TAF100136	88.3142	89.0506	88.6614	1.8435e-01	1.9002e+00
36	TAF105136	88.2109	89.2557	88.7317	2.5578e-01	1.9002e+00
37	TAF110136	88.2061	88.9368	88.5020	1.5067e-01	1.9002e+00
38	TAF115136	88.6514	89.7000	89.0939	2.0777e-01	1.9002e+00
39	TAF120136	88.3821	89.1170	88.8078	1.3325e-01	1.9002e+00
40	TAF125136	88.2210	89.3690	88.8375	2.7412e-01	1.9002e+00
41	TAF130136	88.3864	88.9124	88.6200	1.2074e-01	1.9002e+00
42	TAF120048	88.6349	89.5839	89.1473	2.2455e-01	1.9002e+00
43	TAF130048	88.4109	88.9369	88.6654	1.2932e-01	1.9002e+00
44	TAF120224	88.5128	89.3526	88.8551	1.8926e-01	1.9002e+00
45	TAF130224	87.9818	88.5085	88.2240	1.2266e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1308	2.0295e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2291	1.1134e-01	1.9010e+00
48	TAI130048	88.4692	89.5189	89.0467	3.1105e-01	1.9002e+00
49	TAI130136	87.9357	88.7746	88.3325	1.7744e-01	1.9002e+00
50	TAI130224	88.7353	89.8920	89.4024	3.0236e-01	1.9003e+00
51	TAI130312	88.2475	88.9828	88.6400	1.9202e-01	1.9002e+00
52	TRR130000	86.9165	87.8597	87.3458	2.2903e-01	1.9002e+00
53	TSI000001	80.1281	80.8665	80.4812	1.5180e-01	1.9001e+00
54	TSI000002	75.4815	76.5400	76.0006	2.3148e-01	1.9000e+00
55	TSO000001	73.5125	74.4713	73.8982	2.0643e-01	1.9000e+00
56	TSO000002	83.1907	84.0345	83.6271	2.0980e-01	1.9001e+00
57	TAF020136	87.6005	88.4447	88.1091	1.7922e-01	1.9002e+00
58	TAF120312	87.9776	89.1312	88.5125	2.8205e-01	1.9002e+00
59	TAF130312	87.7170	88.3480	88.0346	1.5227e-01	1.9002e+00
60	EMPTY	0.5322	0.5371	0.5358	2.1635e-03	0.0000e+00
61	EMPTY	0.5469	0.5518	0.5494	2.4612e-03	0.0000e+00
62	EMPTY	0.5615	0.5664	0.5617	9.6655e-04	0.0000e+00
63	EMPTY	0.5762	0.5811	0.5771	1.8950e-03	0.0000e+00
64	EMPTY	0.3564	0.3662	0.3617	1.6624e-03	0.0000e+00
65	EMPTY	0.3809	0.3857	0.3852	1.6028e-03	0.0000e+00
66	EMPTY	0.4004	0.4053	0.4005	6.9053e-04	0.0000e+00
67	EMPTY	0.4199	0.4199	0.4199	0.0000e+00	0.0000e+00
68	EMPTY	0.4248	0.4492	0.4346	2.7902e-03	0.0000e+00
69	EMPTY	0.4492	0.4541	0.4529	2.1065e-03	0.0000e+00
70	EMPTY	0.4639	0.4736	0.4687	1.5566e-03	0.0000e+00
71	EMPTY	0.4883	0.4932	0.4925	1.7115e-03	0.0000e+00
72	EMPTY	0.5029	0.5078	0.5060	2.3941e-03	0.0000e+00
73	EMPTY	0.5225	0.5273	0.5265	1.8950e-03	0.0000e+00
74	EMPTY	0.5322	0.5420	0.5417	1.5314e-03	0.0000e+00
75	EMPTY	0.5566	0.5615	0.5609	1.6028e-03	0.0000e+00
76	EMPTY	0.5713	0.5811	0.5757	1.7784e-03	0.0000e+00
77	EMPTY	0.5908	0.5957	0.5948	1.8950e-03	0.0000e+00
78	EMPTY	0.6152	0.6250	0.6157	1.7784e-03	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6395	9.6655e-04	0.0000e+00
80	PAN020136	5.9598	6.2650	6.0789	9.2688e-02	8.7013e-01
81	PAN050136	8.8932	9.5036	9.1343	1.4813e-01	1.6802e+00
82	PAN070136	2.5826	2.9640	2.8038	1.0482e-01	8.7003e-01
83	PAN080136	0.8452	1.0741	0.9475	6.8257e-02	8.7000e-01
84	PAN090136	0.4050	0.7865	0.5958	8.6165e-02	8.7000e-01
85	PAN100136	2.1525	2.5340	2.3173	8.0624e-02	8.7002e-01
86	PAN105136	1.6822	1.9873	1.8317	6.5322e-02	8.7001e-01
87	PAN110136	3.0012	3.3064	3.1538	7.2297e-02	8.7004e-01
88	PAN115136	3.3504	3.6556	3.4770	8.9360e-02	8.7004e-01
89	PAN120136	4.3907	4.9247	4.5967	8.8880e-02	8.7008e-01
90	PAN125136	0.8341	1.1393	0.9654	8.0151e-02	8.7000e-01
91	PAN130136	-1.4971	-1.2682	-1.3674	7.2706e-02	8.7001e-01
92	PAN120048	-2.0348	-1.7297	-1.8685	8.1109e-02	8.7001e-01
93	PAN130048	4.7539	5.0591	4.9233	8.1983e-02	8.7009e-01
94	PAN120224	5.7163	6.0215	5.8368	8.5944e-02	8.7012e-01
95	PAN130224	2.0587	2.3639	2.2494	7.7453e-02	8.7002e-01
96	PAN120312	-0.9843	-0.6028	-0.7783	8.3362e-02	8.7000e-01
97	PAN130312	3.8970	4.2784	4.0694	7.8307e-02	8.7006e-01
98	PAB000136	21.2309	21.4140	21.3170	4.4004e-02	5.8244e-01
99	PAB100136	20.2722	20.4553	20.3839	5.1625e-02	5.8223e-01
100	PAB125136	19.8092	19.9465	19.8623	4.3731e-02	5.8212e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	21.1599	21.5261	21.1916	6.8921e-02	7.5187e-01
102	PRV000001	18.7420	19.1082	19.0960	5.6508e-02	7.5152e-01
103	PSR000001	19.6691	19.7911	19.7716	4.5206e-02	7.5163e-01
104	PFM000001	21.7825	22.4234	22.0846	1.4941e-01	5.0304e-01
105	PAN000136	34.3766	37.1232	35.8415	5.7010e-01	4.9208e+00
106	PFM000002	18.9776	20.8905	20.1492	3.8125e-01	2.0625e-01
107	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-3.0615	-7.8917	1.3805e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0046	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	-1.0479	-0.6573	-0.7549	1.0625e-01	8.1001e-01
113	VPW000002	-1.0404	-0.4545	-0.7787	1.1578e-01	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6232	1.0595e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6291	9.5112e-02	8.1001e-01
116	VPW000005	-1.4686	-0.8827	-1.2420	1.2072e-01	8.1003e-01
117	VPW000006	-1.6489	-1.2583	-1.4653	9.1779e-02	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.8023	9.6293e-01	8.1004e+00
119	IPW000002	-12.2331	-6.3793	-9.1111	1.3075e+00	8.1003e+00
120	IPW000003	-12.8625	-8.9625	-10.5615	1.0190e+00	8.1004e+00
121	IPW000004	-2.2536	-1.2771	-1.8728	2.8403e-01	2.0001e+00
122	IPW000005	-4.4786	-3.0139	-3.4435	2.8993e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2216	3.4173e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0198	3.4751e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.4662e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0165	3.2554e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	3.1195e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0230	8.2864e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0337	7.3716e-02	4.1000e+00
130	IHT000003	-0.0864	0.3042	-0.0122	1.0358e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0192	9.1779e-02	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0425	9.9512e-02	4.1000e+00
133	IHT000006	-0.0601	0.1352	0.0297	9.8332e-02	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0405	9.0412e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0796	9.6655e-02	4.1000e+00
136	IHT000009	-0.4169	0.1690	-0.0263	8.8233e-02	4.1000e+00
137	IHT000010	-0.1427	0.2479	-0.0529	1.2608e-01	4.1000e+00
138	IHT000011	-0.3042	0.2817	-0.0308	1.1838e-01	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0598	9.8332e-02	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0882	9.5112e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0078	1.0410e-01	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0137	8.5454e-02	4.1000e+00
143	IHT000016	-0.1352	0.0601	-0.0415	9.8569e-02	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.1470	2.7384e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0303	9.6332e-02	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2249	1.0741e-01	4.1000e+00
147	IHT000020	-0.4470	0.1390	-0.0876	1.0705e-01	4.1000e+00
148	IHT000021	-0.0714	0.1240	0.0263	9.8648e-02	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1287	9.4702e-02	4.1000e+00
150	IHT000023	-0.0300	0.5559	0.1457	1.1334e-01	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2817	7.8918e-02	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2692	9.3461e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0185	5.5243e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	-0.0104	6.4113e-02	4.1000e+00
155	IHT000028	-0.2479	0.3381	0.0021	1.1189e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.3080	-0.0162	1.0885e-01	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0397	1.0470e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0137	1.2750e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	-0.0039	1.1327e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	-0.0078	1.0595e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	0.0015	8.8233e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0676	9.6655e-02	4.1000e+00
163	IHT000036	-0.1878	0.0075	-0.0667	9.5765e-02	4.1000e+00

Velocity 1 = 11.9985 (ft/sec) (+/- 2.0210 %)
 Velocity 2 = 11.4597 (ft/sec) (+/- 1.7308 %)
 Pressure drop = 1.2933 (psi)
 Tsat in = 231.1730 (deg F) Tsat out = 227.3802 (deg F)
 Phi inner = 0.0044 (kBtu/hr-ft2) (+/- 133.1942 %)
 Phi outer = 0.0071 (kBtu/hr-ft2) (+/- 126.3773 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.2671	73.9075	73.6374	1.9379e-01	1.9000e+00
1	TRF000002	73.5362	73.9608	73.7182	1.3703e-01	1.9000e+00
2	TFM000001	88.1768	89.1211	88.7632	1.8038e-01	1.9002e+00
3	TIN000001	88.0052	88.8466	88.3510	1.7044e-01	1.9002e+00
4	TRV000001	87.8513	88.6907	88.2565	2.1921e-01	1.9002e+00
5	TSR000001	88.5222	89.1522	88.8163	1.5439e-01	1.9002e+00
6	TAO020136	80.9271	81.8791	81.2940	2.2039e-01	1.9001e+00
7	TAO050136	88.4807	89.0050	88.7672	1.3154e-01	1.9002e+00
8	TAO070136	88.2459	89.1942	88.7751	2.1656e-01	1.9002e+00
9	TAO080136	87.9684	88.5983	88.3818	1.8085e-01	1.9002e+00
10	TAO090136	88.2673	89.2101	88.8830	1.8968e-01	1.9002e+00
11	TAO100136	88.2890	89.0236	88.6359	1.5644e-01	1.9002e+00
12	TAO105136	88.7913	89.6323	89.2868	2.2787e-01	1.9003e+00
13	TAO110136	88.5921	89.2212	88.9625	1.5126e-01	1.9002e+00
14	TAO115136	88.3126	89.3636	88.9539	2.1363e-01	1.9002e+00
15	TAO120136	88.4277	89.0574	88.6935	1.4554e-01	1.9002e+00
16	TAO125136	88.5384	89.3781	89.0675	2.0420e-01	1.9002e+00
17	TAO130136	88.2151	88.9444	88.5561	1.5334e-01	1.9002e+00
18	TAO120048	76.7217	77.6762	77.2110	2.7844e-01	1.9000e+00
19	TAO130048	87.9152	88.6491	88.3929	1.3918e-01	1.9002e+00
20	TAO120224	88.0410	88.8817	88.4851	1.8230e-01	1.9002e+00
21	TAO130224	88.0779	89.0166	88.5423	2.2137e-01	1.9002e+00
22	TAO120312	88.1367	88.8728	88.5186	1.6308e-01	1.9002e+00
23	TAO130312	87.9486	88.5792	88.3796	1.6219e-01	1.9002e+00
24	TRT020000	88.6859	89.5280	89.0275	1.9157e-01	1.9002e+00
25	TRT070000	88.3497	89.0884	88.8021	1.6248e-01	1.9002e+00
26	TRT100000	88.6430	89.4823	89.0737	1.8567e-01	1.9002e+00
27	TRT120000	88.4093	89.0400	88.8232	1.7075e-01	1.9002e+00
28	TRT125000	75.3532	76.1977	75.7465	2.0352e-01	1.9000e+00
29	TRT130000	88.2607	88.8903	88.6295	1.4722e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5447	2.1866e-01	1.9011e+00
31	TAF050136	88.5118	89.3502	88.9040	1.8628e-01	1.9002e+00
32	TAF070136	82.3199	83.3718	82.8721	2.3658e-01	1.9001e+00
33	TAF080136	88.3497	89.0822	88.7300	1.7056e-01	1.9002e+00
34	TAF090136	75.3299	76.2842	75.7266	2.6662e-01	1.9000e+00
35	TAF100136	88.3142	88.9458	88.6901	1.5634e-01	1.9002e+00
36	TAF105136	88.2109	89.2557	88.8107	2.6580e-01	1.9002e+00
37	TAF110136	88.1012	88.8342	88.5233	1.4444e-01	1.9002e+00
38	TAF115136	88.5465	89.4898	89.1011	2.0853e-01	1.9002e+00
39	TAF120136	88.3821	89.0121	88.8467	1.3399e-01	1.9002e+00
40	TAF125136	88.4292	89.4744	88.9313	2.6426e-01	1.9002e+00
41	TAF130136	88.3864	89.0163	88.6635	1.2824e-01	1.9002e+00
42	TAF120048	88.6349	89.5839	89.1814	2.4802e-01	1.9002e+00
43	TAF130048	88.3062	89.0415	88.6965	1.5020e-01	1.9002e+00
44	TAF120224	88.4080	89.2478	88.8602	1.8815e-01	1.9002e+00
45	TAF130224	87.8765	88.4032	88.2548	1.3407e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1663	2.1392e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2683	1.2492e-01	1.9010e+00
48	TAI130048	88.3643	89.6242	89.0694	3.0210e-01	1.9002e+00
49	TAI130136	87.7265	88.7752	88.3665	1.8807e-01	1.9002e+00
50	TAI130224	88.9457	89.8926	89.4697	2.2249e-01	1.9003e+00
51	TAI130312	88.2469	89.0880	88.6524	1.8575e-01	1.9002e+00
52	TRR130000	86.9165	87.8597	87.4040	2.1661e-01	1.9002e+00
53	TSI000001	80.2337	80.9732	80.5231	1.7751e-01	1.9001e+00
54	TSI000002	75.5881	76.6465	76.0567	2.3963e-01	1.9000e+00
55	TSO000001	73.4057	74.2587	73.8778	1.7264e-01	1.9000e+00
56	TSO000002	83.2956	84.1399	83.7071	2.0569e-01	1.9001e+00
57	TAF020136	87.7061	88.6560	88.1755	2.0209e-01	1.9002e+00
58	TAF120312	87.9776	88.9223	88.4958	2.9316e-01	1.9002e+00
59	TAF130312	87.7170	88.3480	88.0627	1.6749e-01	1.9002e+00
60	EMPTY	0.5322	0.5371	0.5344	2.4538e-03	0.0000e+00
61	EMPTY	0.5469	0.5518	0.5481	2.1215e-03	0.0000e+00
62	EMPTY	0.5518	0.5664	0.5613	1.7146e-03	0.0000e+00
63	EMPTY	0.5762	0.5811	0.5767	1.4934e-03	0.0000e+00
64	EMPTY	0.3613	0.3662	0.3619	1.6172e-03	0.0000e+00
65	EMPTY	0.3809	0.3857	0.3852	1.4934e-03	0.0000e+00
66	EMPTY	0.3955	0.4053	0.4004	9.9670e-04	0.0000e+00
67	EMPTY	0.4199	0.4199	0.4199	0.0000e+00	0.0000e+00
68	EMPTY	0.4297	0.4346	0.4345	6.9754e-04	0.0000e+00
69	EMPTY	0.4443	0.4541	0.4532	2.1547e-03	0.0000e+00
70	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
71	EMPTY	0.4883	0.4932	0.4929	1.1827e-03	0.0000e+00
72	EMPTY	0.5029	0.5078	0.5058	2.4247e-03	0.0000e+00
73	EMPTY	0.5225	0.5273	0.5268	1.4934e-03	0.0000e+00
74	EMPTY	0.5420	0.5469	0.5422	9.7615e-04	0.0000e+00
75	EMPTY	0.5566	0.5615	0.5611	1.3508e-03	0.0000e+00
76	EMPTY	0.5713	0.5811	0.5760	1.3951e-03	0.0000e+00
77	EMPTY	0.5957	0.5957	0.5957	0.0000e+00	0.0000e+00
78	EMPTY	0.6152	0.6201	0.6165	2.1781e-03	0.0000e+00
79	EMPTY	0.6396	0.6445	0.6399	1.1827e-03	0.0000e+00
80	PAN020136	5.8835	6.3413	6.0906	1.0330e-01	8.7013e-01
81	PAN050136	8.8932	9.5036	9.1267	1.5605e-01	1.6802e+00
82	PAN070136	2.5826	2.9640	2.7865	1.0721e-01	8.7003e-01
83	PAN080136	0.7689	1.0741	0.9278	7.6034e-02	8.7000e-01
84	PAN090136	0.4813	0.7865	0.6215	8.4366e-02	8.7000e-01
85	PAN100136	2.1525	2.4577	2.2802	8.5849e-02	8.7002e-01
86	PAN105136	1.6059	1.9873	1.8161	8.4629e-02	8.7001e-01
87	PAN110136	3.0012	3.3064	3.1538	7.4688e-02	8.7004e-01
88	PAN115136	3.2741	3.6556	3.4500	9.1080e-02	8.7004e-01
89	PAN120136	4.3907	4.7721	4.6102	9.2963e-02	8.7008e-01
90	PAN125136	0.8341	1.1393	0.9634	8.4160e-02	8.7000e-01
91	PAN130136	-1.4971	-1.2682	-1.3663	6.2294e-02	8.7001e-01
92	PAN120048	-1.9585	-1.7297	-1.8589	7.8184e-02	8.7001e-01
93	PAN130048	4.7539	5.1354	4.9174	8.2407e-02	8.7009e-01
94	PAN120224	5.7163	6.0215	5.8315	8.1105e-02	8.7012e-01
95	PAN130224	2.0587	2.4402	2.2518	8.4013e-02	8.7002e-01
96	PAN120312	-0.9080	-0.6028	-0.7616	7.9160e-02	8.7000e-01
97	PAN130312	3.8970	4.2021	4.0511	8.4571e-02	8.7006e-01
98	PAB000136	21.2309	21.4140	21.3253	4.5208e-02	5.8245e-01
99	PAB100136	20.3180	20.4553	20.3825	3.0876e-02	5.8223e-01
100	PAB125136	19.8092	19.9465	19.8746	4.1788e-02	5.8212e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	21.1599	21.5261	21.1922	7.3814e-02	7.5187e-01
102	PRV000001	18.9861	19.1082	19.1007	2.9569e-02	7.5152e-01
103	PSR000001	19.6691	19.7911	19.7837	2.9569e-02	7.5163e-01
104	PFM000001	21.6909	22.3318	22.0123	1.4848e-01	5.0302e-01
105	PAN000136	34.8344	36.6655	35.8060	5.1716e-01	4.9208e+00
106	PFM000002	19.2964	20.6388	20.0649	3.1584e-01	2.0619e-01
107	EMPTY	0.0000	0.0098	0.0049	9.9670e-04	0.0000e+00
108	EMPTY	-10.0000	-0.6348	-7.8758	1.8247e+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	0.0049	0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-1.0479	-0.6573	-0.7530	1.0640e-01	8.1001e-01
113	VPW000002	-0.8451	-0.4545	-0.7813	1.0076e-01	8.1001e-01
114	VPW000003	-0.9240	-0.3380	-0.6569	1.1755e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6440	1.1044e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.2733	1.1960e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4496	1.0156e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.6047	1.3460e+00	8.1004e+00
119	IPW000002	-12.2331	-6.3793	-9.4058	1.4936e+00	8.1003e+00
120	IPW000003	-12.8625	-8.9625	-10.8329	1.1230e+00	8.1005e+00
121	IPW000004	-2.2536	-1.2771	-1.8550	2.3740e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5121	3.3781e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.1599	3.0538e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0199	3.5710e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0139	3.3574e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0169	2.8370e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.3453e-03	0.0000e+00
128	IHT000001	-0.2066	0.5747	-0.0073	1.1616e-01	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0296	9.7323e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	0.0053	9.8483e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	0.0005	1.0517e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0232	1.0092e-01	4.1000e+00
133	IHT000006	-0.0601	0.1352	0.0635	9.5132e-02	4.1000e+00
134	IHT000007	-0.0601	0.1352	-0.0162	8.2338e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0780	9.6990e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0263	7.9736e-02	4.1000e+00
137	IHT000010	-0.1427	0.0526	-0.0550	9.8153e-02	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0531	8.9148e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0895	9.6150e-02	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0832	1.0548e-01	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0080	8.8783e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0050	9.1482e-02	4.1000e+00
143	IHT000016	-0.1352	0.2554	-0.0196	1.0486e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.1412	2.7362e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0026	8.2141e-02	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2486	1.0851e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0564	8.9148e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0403	1.0548e-01	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1393	9.0949e-02	4.1000e+00
150	IHT000023	-0.2254	0.3606	0.1453	1.0731e-01	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2578	9.4620e-02	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2985	9.8648e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0103	7.8092e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	0.0300	9.2540e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	-0.0008	1.0378e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.3080	-0.0268	9.7656e-02	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0408	1.0548e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0189	1.1658e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	0.0020	1.1362e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	-0.0020	1.0640e-01	4.1000e+00
161	IHT000034	-0.2329	0.3531	0.0063	1.0746e-01	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0317	8.6187e-02	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0403	1.0941e-01	4.1000e+00

Velocity 1 = 0.019600 (ft/sec)
 Velocity 2 = 0.023900 (ft/sec)
 Pressure Drop = 0.001300 (psi)
 Tsat in = 0.021103 (deg F) Tsat out = 0.032898 (deg F)
 Phi inner = 0.000200 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0757	0.1029
1	TRF000002	0.0122	0.0166
2	TFM000001	0.0446	0.0502
3	TIN000001	0.0265	0.0300
4	TRV000001	0.0793	0.0898
5	TSR000001	0.0229	0.0258
6	TAO020136	0.0412	0.0507
7	TAO050136	0.0583	0.0657
8	TAO070136	0.0549	0.0619
9	TAO080136	0.0171	0.0193
10	TAO090136	0.0481	0.0541
11	TAO100136	0.0135	0.0152
12	TAO105136	0.0688	0.0771
13	TAO110136	0.0037	0.0042
14	TAO115136	0.0171	0.0192
15	TAO120136	0.0622	0.0702
16	TAO125136	0.0025	0.0028
17	TAO130136	0.0027	0.0030
18	TAO120048	0.0345	0.0447
19	TAO130048	0.0350	0.0396
20	TAO120224	0.0133	0.0150
21	TAO130224	0.0037	0.0042
22	TAO120312	0.0435	0.0492
23	TAO130312	0.0340	0.0385
24	TRT020000	0.0742	0.0834
25	TRT070000	0.0153	0.0172
26	TRT100000	0.0424	0.0476
27	TRT120000	0.0210	0.0236
28	TRT125000	0.0486	0.0641
29	TRT130000	0.0223	0.0252
30	EMPTY	0.0150	0.0379
31	TAF050136	0.0165	0.0186
32	TAF070136	0.0366	0.0442
33	TAF080136	0.0060	0.0068
34	TAF090136	0.0893	0.1178
35	TAF100136	0.0287	0.0324
36	TAF105136	0.0790	0.0890
37	TAF110136	0.0213	0.0241
38	TAF115136	0.0072	0.0081
39	TAF120136	0.0389	0.0438
40	TAF125136	0.0938	0.1056
41	TAF130136	0.0435	0.0491
42	TAF120048	0.0341	0.0382
43	TAF130048	0.0311	0.0351
44	TAF120224	0.0051	0.0057
45	TAF130224	0.0308	0.0349

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#	Name	Abs Diff	%Diff
46	EMPTY	0.0355	0.0931
47	EMPTY	0.0392	0.0999
48	TAI130048	0.0227	0.0255
49	TAI130136	0.0340	0.0385
50	TAI130224	0.0673	0.0753
51	TAI130312	0.0124	0.0140
52	TRR130000	0.0582	0.0666
53	TSI000001	0.0419	0.0521
54	TSI000002	0.0561	0.0738
55	TSO000001	0.0204	0.0276
56	TSO000002	0.0800	0.0957
57	TAF020136	0.0664	0.0754
58	TAF120312	0.0167	0.0189
59	TAF130312	0.0281	0.0319
60	EMPTY	0.0014	0.2613
61	EMPTY	0.0013	0.2366
62	EMPTY	0.0004	0.0712
63	EMPTY	0.0004	0.0693
64	EMPTY	0.0002	0.0553
65	EMPTY	0.0000	0.0000
66	EMPTY	0.0001	0.0250
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0001	0.0230
69	EMPTY	0.0003	0.0662
70	EMPTY	0.0001	0.0213
71	EMPTY	0.0004	0.0812
72	EMPTY	0.0002	0.0395
73	EMPTY	0.0003	0.0570
74	EMPTY	0.0005	0.0923
75	EMPTY	0.0002	0.0357
76	EMPTY	0.0003	0.0521
77	EMPTY	0.0009	0.1513
78	EMPTY	0.0008	0.1299
79	EMPTY	0.0004	0.0625
80	PAN020136	0.0117	0.1925
81	PAN050136	0.0076	0.0832
82	PAN070136	0.0173	0.6170
83	PAN080136	0.0197	2.0792
84	PAN090136	0.0257	4.3135
85	PAN100136	0.0371	1.6010
86	PAN105136	0.0156	0.8517
87	PAN110136	0.0000	0.0000
88	PAN115136	0.0270	0.7765
89	PAN120136	0.0135	0.2937
90	PAN125136	0.0020	0.2072
91	PAN130136	0.0011	0.0804
92	PAN120048	0.0096	0.5138
93	PAN130048	0.0059	0.1198
94	PAN120224	0.0053	0.0908
95	PAN130224	0.0024	0.1067
96	PAN120312	0.0167	2.1457
97	PAN130312	0.0183	0.4497
98	PAB000136	0.0083	0.0389
99	PAB100136	0.0014	0.0069
100	PAB125136	0.0123	0.0619

#	Name	Abs Diff	%Diff
101	PIN000001	0.0006	0.0028
102	PRV000001	0.0047	0.0246
103	PSR000001	0.0121	0.0612
104	PFM000001	0.0723	0.3274
105	PAN000136	0.0355	0.0990
106	PFM000002	0.0843	0.4184
107	EMPTY	0.0002	3.9216
108	EMPTY	0.0159	0.2015
109	EMPTY	0.0002	4.3478
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0019	0.2517
113	VPW000002	0.0026	0.3339
114	VPW000003	0.0337	5.4076
115	VPW000004	0.0149	2.3685
116	VPW000005	0.0313	2.5201
117	VPW000006	0.0157	1.0715
118	IPW000001	0.1976	2.0159
119	IPW000002	0.2947	3.2345
120	IPW000003	0.2714	2.5697
121	IPW000004	0.0178	0.9504
122	IPW000005	0.0686	1.9922
123	IPW000006	0.0617	2.7773
124	EMPTY	0.0001	0.5050
125	EMPTY	0.0007	5.3030
126	EMPTY	0.0004	2.4242
127	EMPTY	0.0001	0.6410
128	IHT000001	0.0157	68.2609
129	IHT000002	0.0041	12.1662
130	IHT000003	0.0175	143.4426
131	IHT000004	0.0197	102.6042
132	IHT000005	0.0193	45.4118
133	IHT000006	0.0338	113.8047
134	IHT000007	0.0243	60.0000
135	IHT000008	0.0016	2.0100
136	IHT000009	0.0000	0.0000
137	IHT000010	0.0021	3.9698
138	IHT000011	0.0223	72.4026
139	IHT000012	0.0297	49.6656
140	IHT000013	0.0050	5.6689
141	IHT000014	0.0002	2.5641
142	IHT000015	0.0087	63.5037
143	IHT000016	0.0219	52.7711
144	IHT000017	0.0058	3.9456
145	IHT000018	0.0277	91.4191
146	IHT000019	0.0237	10.5380
147	IHT000020	0.0312	35.6164
148	IHT000021	0.0140	53.2319
149	IHT000022	0.0106	8.2362
150	IHT000023	0.0004	0.2745
151	IHT000024	0.0239	8.4842
152	IHT000025	0.0293	10.8841
153	IHT000026	0.0082	44.3243
154	IHT000027	0.0404	388.4615
155	IHT000028	0.0029	138.0952

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0106	65.4321
157	IHT000030	0.0011	2.7708
158	IHT000031	0.0052	37.9562
159	IHT000032	0.0059	151.2821
160	IHT000033	0.0058	74.3590
161	IHT000034	0.0048	320.0000
162	IHT000035	0.0359	53.1065
163	IHT000036	0.0264	39.5802

Velocity 1 = 10.0581 (ft/sec) (+/- 2.3285 %)
Velocity 2 = 9.4686 (ft/sec) (+/- 1.7970 %)
Pressure drop = -0.5202 (psi)
Tsats in = 225.6528 (deg F) Tsats out = 226.6076 (deg F)
Phi inner = 0.0044 (kBtu/hr-ft2) (+/- 131.8196 %)
Phi outer = 0.0071 (kBtu/hr-ft2) (+/- 126.4281 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.2671	73.9075	73.6087	1.8299e-01	1.9000e+00
1	TRF000002	73.5362	73.9608	73.7273	1.5010e-01	1.9000e+00
2	TFM000001	87.7570	88.5975	88.1375	1.9074e-01	1.9002e+00
3	TIN000001	87.3745	88.2158	87.7429	1.9041e-01	1.9002e+00
4	TRV000001	87.2239	88.0637	87.5751	1.9810e-01	1.9002e+00
5	TSR000001	88.1043	88.7345	88.4970	1.4812e-01	1.9002e+00
6	TAO020136	80.9271	81.8791	81.4156	2.3297e-01	1.9001e+00
7	TAO050136	87.6458	88.5873	88.1000	1.9352e-01	1.9002e+00
8	TAO070136	87.6141	88.5623	88.1513	2.4658e-01	1.9002e+00
9	TAO080136	87.5511	88.0776	87.7686	1.4454e-01	1.9002e+00
10	TAO090136	87.7431	88.5831	88.2450	1.9803e-01	1.9002e+00
11	TAO100136	87.7644	88.3953	88.0360	1.6994e-01	1.9002e+00
12	TAO105136	88.0562	89.1064	88.6342	2.4043e-01	1.9002e+00
13	TAO110136	87.9679	88.7022	88.3185	1.8161e-01	1.9002e+00
14	TAO115136	87.8924	88.9429	88.3572	2.4212e-01	1.9002e+00
15	TAO120136	87.6926	88.4288	88.0650	1.7405e-01	1.9002e+00
16	TAO125136	88.0157	88.9596	88.4917	1.9794e-01	1.9002e+00
17	TAO130136	87.5951	88.3248	87.9308	1.6810e-01	1.9002e+00
18	TAO120048	76.7223	77.8878	77.2372	2.7234e-01	1.9000e+00
19	TAO130048	87.4969	88.0233	87.7518	1.4113e-01	1.9002e+00
20	TAO120224	87.5164	88.2526	87.8846	1.8056e-01	1.9002e+00
21	TAO130224	87.3483	88.4986	87.9902	2.8306e-01	1.9002e+00
22	TAO120312	87.5059	88.2424	87.8908	1.6410e-01	1.9002e+00
23	TAO130312	87.4259	88.0563	87.7680	1.3576e-01	1.9002e+00
24	TRT020000	87.9494	88.7912	88.3682	1.9075e-01	1.9002e+00
25	TRT070000	87.9269	88.5598	88.1827	1.7313e-01	1.9002e+00
26	TRT100000	88.0152	88.9598	88.5002	2.1501e-01	1.9002e+00
27	TRT120000	87.7804	88.6210	88.2072	1.8055e-01	1.9002e+00
28	TRT125000	75.6686	76.4107	76.0440	2.0191e-01	1.9000e+00
29	TRT130000	87.6324	88.3671	88.0253	1.6821e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6194	1.6982e-01	1.9011e+00
31	TAF050136	87.8847	88.8289	88.2817	2.0678e-01	1.9002e+00
32	TAF070136	82.3199	83.2653	82.7897	2.3204e-01	1.9001e+00
33	TAF080136	87.7255	88.4579	88.1248	1.6633e-01	1.9002e+00
34	TAF090136	75.3299	76.3901	75.8753	2.7584e-01	1.9000e+00
35	TAF100136	87.7885	88.5252	88.0809	1.910e-01	1.9002e+00
36	TAF105136	87.5864	88.7371	88.1827	2.8622e-01	1.9002e+00
37	TAF110136	87.5796	88.2095	87.9046	1.6460e-01	1.9002e+00
38	TAF115136	88.0234	88.8633	88.4622	2.0507e-01	1.9002e+00
39	TAF120136	87.7553	88.4905	88.2150	1.5444e-01	1.9002e+00
40	TAF125136	87.8069	88.8504	88.2719	2.5563e-01	1.9002e+00
41	TAF130136	87.7582	88.2846	88.0215	1.3491e-01	1.9002e+00
42	TAF120048	88.1067	88.9507	88.4927	1.9715e-01	1.9002e+00
43	TAF130048	87.7821	88.4131	88.0495	1.3970e-01	1.9002e+00
44	TAF120224	87.8851	88.8292	88.2984	2.0603e-01	1.9002e+00
45	TAF130224	87.3492	87.9816	87.6168	1.4305e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1170	2.1407e-01	1.9010e+00
47	EMPTY	39.1464	39.8352	39.2245	1.3611e-01	1.9010e+00
48	TAI130048	87.6303	88.9953	88.4050	2.9908e-01	1.9002e+00
49	TAI130135	87.3080	88.1474	87.7220	2.0806e-01	1.9002e+00
50	TAI130224	88.3151	89.4722	88.7715	3.0168e-01	1.9002e+00
51	TAI130312	87.5109	88.3527	88.0140	2.0518e-01	1.9002e+00
52	TRR130000	86.4997	87.5467	86.8987	2.4842e-01	1.9002e+00
53	TSI000001	80.2343	80.3682	80.6288	1.6635e-01	1.9001e+00
54	TSI000002	75.6936	76.7524	76.2121	2.6388e-01	1.9000e+00
55	TSO000001	73.6191	74.3652	74.0518	1.9307e-01	1.9000e+00
56	TSO000002	82.8739	83.8238	83.3448	2.0351e-01	1.9001e+00
57	TAF020136	87.0716	87.9156	87.5044	1.9565e-01	1.9002e+00
58	TAF120312	87.3477	88.3984	87.8039	2.8741e-01	1.9002e+00
59	TAF130312	87.0880	87.8242	87.4479	1.9005e-01	1.9002e+00
60	EMPTY	0.5176	0.5225	0.5201	2.4642e-03	0.0000e+00
61	EMPTY	0.5322	0.5371	0.5335	2.1635e-03	0.0000e+00
62	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
63	EMPTY	0.5566	0.5615	0.5613	9.6655e-04	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3563	6.9053e-04	0.0000e+00
65	EMPTY	0.3760	0.3809	0.3781	2.4484e-03	0.0000e+00
66	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
67	EMPTY	0.4102	0.4150	0.4146	1.3381e-03	0.0000e+00
68	EMPTY	0.4248	0.4297	0.4287	1.9730e-03	0.0000e+00
69	EMPTY	0.4443	0.4492	0.4467	2.4642e-03	0.0000e+00
70	EMPTY	0.4590	0.4639	0.4638	6.9053e-04	0.0000e+00
71	EMPTY	0.4834	0.4883	0.4855	2.4484e-03	0.0000e+00
72	EMPTY	0.4980	0.5029	0.5007	2.4583e-03	0.0000e+00
73	EMPTY	0.5176	0.5225	0.5215	1.9730e-03	0.0000e+00
74	EMPTY	0.5322	0.5371	0.5369	9.6655e-04	0.0000e+00
75	EMPTY	0.5518	0.5566	0.5538	2.4344e-03	0.0000e+00
76	EMPTY	0.5615	0.5762	0.5703	2.4164e-03	0.0000e+00
77	EMPTY	0.5859	0.5908	0.5904	1.3381e-03	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6109	1.6028e-03	0.0000e+00
79	EMPTY	0.6299	0.6396	0.6349	1.2041e-03	0.0000e+00
80	PAN020136	-0.6777	-0.4488	-0.5724	7.8428e-02	8.7000e-01
81	PAN050136	-3.3138	-2.7035	-3.0453	1.2918e-01	1.6800e+00
82	PAN070136	-4.5891	-4.2839	-4.4106	9.0679e-02	8.7007e-01
83	PAN080136	-2.7406	-2.3591	-2.5086	8.5764e-02	8.7002e-01
84	PAN090136	-2.8756	-2.5704	-2.7230	8.7193e-02	8.7003e-01
85	PAN100136	-1.7385	-1.3570	-1.5233	7.8125e-02	8.7001e-01
86	PAN105136	-0.3778	-0.2252	-0.2740	5.2858e-02	8.7000e-01
87	PAN110136	0.5598	0.7124	0.6300	5.7342e-02	8.7000e-01
88	PAN115136	0.7564	0.9853	0.8251	6.9362e-02	8.7000e-01
89	PAN120136	1.5678	1.7967	1.6899	6.7187e-02	8.7001e-01
90	PAN125136	-1.1495	-0.8443	-0.9984	8.0815e-02	8.7000e-01
91	PAN130136	-2.6415	-2.3364	-2.4706	7.3211e-02	8.7002e-01
92	PAN120048	-4.8577	-4.5525	-4.7036	7.3097e-02	8.7008e-01
93	PAN130048	0.1763	0.4051	0.2831	6.7187e-02	8.7000e-01
94	PAN120224	0.9098	1.2149	1.0639	7.4705e-02	8.7000e-01
95	PAN130224	-1.6797	-1.4508	-1.5561	7.2116e-02	8.7001e-01
96	PAN120312	-3.8072	-3.5020	-3.6775	7.5904e-02	8.7005e-01
97	PAN130312	-0.4518	-0.1466	-0.3160	7.2772e-02	8.7000e-01
98	PAB000136	19.1710	19.3083	19.2369	2.7990e-02	5.8199e-01
99	PAB100136	19.5856	19.7229	19.6652	4.1162e-02	5.8208e-01
100	PAB125136	19.4887	19.6718	19.5876	4.5645e-02	5.8206e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	19.2067	19.3288	19.2507	5.9189e-02	7.5154e-01
102	PRV000001	19.1082	19.2303	19.2083	4.7374e-02	7.5154e-01
103	PSR000001	19.6691	19.7911	19.6862	4.2787e-02	7.5161e-01
104	PFM000001	15.1907	15.7400	15.4232	1.3365e-01	5.0148e-01
105	PAN000136	-14.6041	-13.6885	-14.4026	2.4747e-01	4.9201e+00
106	PFM000002	12.4167	14.5478	13.6524	4.7753e-01	2.0289e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-4.9854	-8.1711	1.3442e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0037	2.3261e-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	-1.0479	-0.6573	-0.7706	1.1223e-01	8.1001e-01
113	VPW000002	-0.8451	-0.6498	-0.7553	9.8332e-02	8.1001e-01
114	VPW000003	-0.9240	-0.3380	-0.6701	1.0625e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6369	1.1361e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.3006	9.6735e-02	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4067	1.0849e-01	8.1004e-01
118	IPW000001	-13.6289	-7.7719	-9.2166	1.2354e+00	8.1003e+00
119	IPW000002	-12.2331	-6.3793	-9.8135	1.1534e+00	8.1004e+00
120	IPW000003	-12.8625	-7.0125	-10.6785	1.3441e+00	8.1004e+00
121	IPW000004	-2.2536	-1.2771	-1.8533	2.7356e-01	2.0001e+00
122	IPW000005	-4.4786	-3.0139	-3.4826	3.5510e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2216	3.4173e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0098	-0.0203	4.2269e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0125	3.1444e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0162	3.0309e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0159	3.3901e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0347	1.0168e-01	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0337	9.2456e-02	4.1000e+00
130	IHT000003	-0.0864	0.3042	-0.0278	9.8648e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0192	7.2866e-02	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0425	9.9512e-02	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0571	1.0440e-01	4.1000e+00
134	IHT000007	-0.2554	0.3305	-0.0210	1.0440e-01	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0796	9.6655e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	0.0011	7.9017e-02	4.1000e+00
137	IHT000010	-0.1427	0.0526	-0.0607	9.7377e-02	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0464	9.2034e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0637	9.8569e-02	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0999	1.0440e-01	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0039	8.3612e-02	4.1000e+00
142	IHT000015	-0.0488	0.1465	-0.0020	8.4262e-02	4.1000e+00
143	IHT000016	-0.1352	0.2554	-0.0336	1.1327e-01	4.1000e+00
144	IHT000017	-0.3530	0.4282	0.1079	2.5499e-01	4.1000e+00
145	IHT000018	-0.3681	0.2178	0.0186	1.0799e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2171	1.1334e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0446	8.2864e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0302	1.0617e-01	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1209	9.6655e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1653	1.0440e-01	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2582	1.0168e-01	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2692	9.3461e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0302	7.3716e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	0.0170	8.6541e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	-0.0018	1.0297e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.1127	-0.0162	1.0145e-01	4.1000e+00
157	IHT000030	-0.0150	0.1803	0.0436	9.0412e-02	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0254	1.1765e-01	4.1000e+00
159	IHT000032	-0.0976	0.0977	-0.0078	9.8332e-02	4.1000e+00
160	IHT000033	-0.0977	0.0976	0.0039	9.8569e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0180	1.0625e-01	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0715	1.0052e-01	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0472	1.0470e-01	4.1000e+00

Velocity 1 = 10.0639 (ft/sec) (+/- 2.3272 %)
Velocity 2 = 9.4621 (ft/sec) (+/- 1.7973 %)
Pressure drop = -0.5211 (psi)
Tsats in = 225.6463 (deg F) Tsats out = 226.6434 (deg F)
Phi inner = 0.0044 (kBtu/hr-ft2) (+/- 133.4588 %)
Phi outer = 0.0071 (kBtu/hr-ft2) (+/- 126.4106 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	73.2671	73.9075	73.6462	1.8107e-01	1.9000e+00
1	TRF0000002	73.5362	73.9608	73.7658	1.4264e-01	1.9000e+00
2	TFM0000001	87.7578	88.4926	88.1368	1.7248e-01	1.9002e+00
3	TIN0000001	87.3748	88.0063	87.7097	1.6308e-01	1.9002e+00
4	TRV0000001	87.1203	87.9596	87.6444	1.8409e-01	1.9002e+00
5	TSR0000001	88.2092	88.8394	88.5117	1.6808e-01	1.9002e+00
6	TAO020136	80.9271	81.9845	81.4429	1.9979e-01	1.9001e+00
7	TAO050136	87.7508	88.4841	88.0754	1.8196e-01	1.9002e+00
8	TAO070136	87.8244	88.6672	88.1708	2.0842e-01	1.9002e+00
9	TAO080136	87.1356	88.2861	87.7413	1.9478e-01	1.9002e+00
10	TAO090136	87.7442	88.5825	88.1721	2.1617e-01	1.9002e+00
11	TAO100136	87.6598	88.5002	87.9626	1.9370e-01	1.9002e+00
12	TAO105136	88.2666	89.1072	88.6589	2.0886e-01	1.9002e+00
13	TAO110136	87.9702	88.7022	88.3239	1.8726e-01	1.9002e+00
14	TAO115136	87.7877	88.8387	88.2875	2.3942e-01	1.9002e+00
15	TAO120136	87.6932	88.4288	88.0920	1.7554e-01	1.9002e+00
16	TAO125136	88.0151	88.8551	88.4289	2.1448e-01	1.9002e+00
17	TAO130136	87.5951	88.2228	87.9171	1.7575e-01	1.9002e+00
18	TAO120048	76.8288	77.9936	77.3212	2.8157e-01	1.9000e+00
19	TAO130048	87.3932	88.2324	87.7551	1.8064e-01	1.9002e+00
20	TAO120224	87.5164	88.1477	87.8408	1.4207e-01	1.9002e+00
21	TAO130224	87.2452	88.2907	87.9251	2.1346e-01	1.9002e+00
22	TAO120312	87.5053	88.3473	87.8472	1.8293e-01	1.9002e+00
23	TAO130312	87.4253	88.0563	87.7367	1.6326e-01	1.9002e+00
24	TRT020000	87.9489	88.7912	88.3682	1.9753e-01	1.9002e+00
25	TRT070000	87.7165	88.5598	88.1576	1.7174e-01	1.9002e+00
26	TRT100000	88.0169	88.9598	88.4526	1.8832e-01	1.9002e+00
27	TRT120000	87.8859	88.5163	88.1753	1.6686e-01	1.9002e+00
28	TRT125000	75.6705	76.5148	76.1271	1.8222e-01	1.9000e+00
29	TRT130000	87.7379	88.2633	88.0249	1.5284e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6337	2.5508e-01	1.9011e+00
31	TAF050136	87.9897	88.6200	88.2709	1.6507e-01	1.9002e+00
32	TAF070136	82.2156	83.2676	82.8102	2.3269e-01	1.9001e+00
33	TAF080136	87.7255	88.3546	88.0994	1.5137e-01	1.9002e+00
34	TAF090136	75.2247	76.7082	75.8844	3.3457e-01	1.9000e+00
35	TAF100136	87.6830	88.4197	88.0482	1.8862e-01	1.9002e+00
36	TAF105136	87.6914	88.7371	88.1846	2.6947e-01	1.9002e+00
37	TAF110136	87.4755	88.2095	87.8304	1.7768e-01	1.9002e+00
38	TAF115136	88.0240	88.8633	88.4543	2.0111e-01	1.9002e+00
39	TAF120136	87.8603	88.4905	88.1159	1.5154e-01	1.9002e+00
40	TAF125136	87.7019	88.8498	88.2371	2.9179e-01	1.9002e+00
41	TAF130136	87.7593	88.2846	88.0377	1.5105e-01	1.9002e+00
42	TAF120048	88.0012	88.8444	88.4810	2.0084e-01	1.9002e+00
43	TAF130048	87.7829	88.3084	88.0273	1.5081e-01	1.9002e+00
44	TAF120224	87.8845	88.6198	88.2086	1.7910e-01	1.9002e+00
45	TAF130224	87.2438	87.8757	87.6329	1.5534e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0772	1.9663e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1699	8.4440e-02	1.9010e+00
48	TAI130048	87.7358	88.9953	88.3010	2.9442e-01	1.9002e+00
49	TAI130136	87.2043	87.9388	87.6559	1.8696e-01	1.9002e+00
50	TAI130224	88.2096	89.3667	88.7894	3.3549e-01	1.9002e+00
51	TAI130312	87.6165	88.3527	88.0028	2.1822e-01	1.9002e+00
52	TRR130000	86.3946	87.2327	86.8474	1.9065e-01	1.9002e+00
53	TSI000001	80.2337	81.0787	80.6499	1.9332e-01	1.9001e+00
54	TSI000002	75.8001	76.7524	76.2660	2.4790e-01	1.9000e+00
55	TSO000001	73.7253	74.5780	74.0845	2.0945e-01	1.9000e+00
56	TSO000002	82.9799	83.8238	83.4211	1.8225e-01	1.9001e+00
57	TAF020136	87.1766	87.9156	87.4872	1.5289e-01	1.9002e+00
58	TAF120312	87.1385	88.3984	87.8048	3.1600e-01	1.9002e+00
59	TAF130312	86.9833	87.8242	87.4018	1.9718e-01	1.9002e+00
60	EMPTY	0.5127	0.5225	0.5183	1.9934e-03	0.0000e+00
61	EMPTY	0.5322	0.5469	0.5328	2.3655e-03	0.0000e+00
62	EMPTY	0.5420	0.5518	0.5456	2.3953e-03	0.0000e+00
63	EMPTY	0.5566	0.5615	0.5610	1.4934e-03	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3563	6.9754e-04	0.0000e+00
65	EMPTY	0.3760	0.3809	0.3769	1.9103e-03	0.0000e+00
66	EMPTY	0.3906	0.3955	0.3953	9.7615e-04	0.0000e+00
67	EMPTY	0.4102	0.4150	0.4144	1.6172e-03	0.0000e+00
68	EMPTY	0.4248	0.4297	0.4284	2.1781e-03	0.0000e+00
69	EMPTY	0.4443	0.4541	0.4453	2.2241e-03	0.0000e+00
70	EMPTY	0.4590	0.4639	0.4634	1.4934e-03	0.0000e+00
71	EMPTY	0.4834	0.4883	0.4842	1.8234e-03	0.0000e+00
72	EMPTY	0.4980	0.5029	0.5000	2.4247e-03	0.0000e+00
73	EMPTY	0.5176	0.5225	0.5206	2.4037e-03	0.0000e+00
74	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
75	EMPTY	0.5518	0.5566	0.5534	2.3135e-03	0.0000e+00
76	EMPTY	0.5664	0.5713	0.5694	2.4037e-03	0.0000e+00
77	EMPTY	0.5811	0.5908	0.5897	2.2871e-03	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6107	1.1827e-03	0.0000e+00
79	EMPTY	0.6348	0.6348	0.6348	0.0000e+00	0.0000e+00
80	PAN020136	-0.6777	-0.4488	-0.5578	6.7883e-02	8.7000e-01
81	PAN050136	-3.3138	-2.7035	-3.0740	1.3577e-01	1.6800e+00
82	PAN070136	-4.5891	-4.2839	-4.4240	7.6843e-02	8.7007e-01
83	PAN080136	-2.7406	-2.3591	-2.5304	8.1713e-02	8.7002e-01
84	PAN090136	-2.8756	-2.5704	-2.7121	8.3866e-02	8.7003e-01
85	PAN100136	-1.6622	-1.3570	-1.5221	8.2916e-02	8.7001e-01
86	PAN105136	-0.3778	-0.1489	-0.2781	6.0725e-02	8.7000e-01
87	PAN110136	0.4835	0.7124	0.6330	6.4134e-02	8.7000e-01
88	PAN115136	0.7564	0.9090	0.8280	6.6817e-02	8.7000e-01
89	PAN120136	1.5678	1.7967	1.6877	6.6073e-02	8.7001e-01
90	PAN125136	-1.1495	-0.8443	-0.9922	8.0030e-02	8.7000e-01
91	PAN130136	-2.5652	-2.4127	-2.5170	5.5486e-02	8.7002e-01
92	PAN120048	-4.7814	-4.5525	-4.6896	6.9611e-02	8.7008e-01
93	PAN130048	0.1763	0.4051	0.2728	6.1855e-02	8.7000e-01
94	PAN120224	0.9098	1.3675	1.0686	8.6481e-02	8.7000e-01
95	PAN130224	-1.7560	-1.3745	-1.5536	7.7165e-02	8.7001e-01
96	PAN120312	-3.8072	-3.5020	-3.6717	7.3485e-02	8.7005e-01
97	PAN130312	-0.4518	-0.2229	-0.2945	6.8608e-02	8.7000e-01
98	PAB000136	19.1710	19.2625	19.2345	2.4396e-02	5.8199e-01
99	PAB100136	19.5856	19.7687	19.6743	3.8986e-02	5.8208e-01
100	PAB125136	19.5345	19.6718	19.6009	4.0795e-02	5.8207e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	19.2067	19.3288	19.2187	3.3770e-02	7.5154e-01
102	PRV000001	18.9861	19.2303	19.1406	5.9882e-02	7.5152e-01
103	PSR000001	19.6691	19.7911	19.7039	5.5717e-02	7.5162e-01
104	PFM000001	15.1907	15.7400	15.4410	1.2365e-01	5.0149e-01
105	PAN000136	-14.6041	-14.1463	-14.4266	2.2535e-01	4.9201e+00
106	PFM000002	12.7523	14.4303	13.6334	4.1731e-01	2.0288e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-4.6777	-7.8987	1.2311e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0040	1.9103e-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	-1.0479	-0.4620	-0.7769	1.1146e-01	8.1001e-01
113	VPW000002	-0.8451	-0.4545	-0.7614	1.1276e-01	8.1001e-01
114	VPW000003	-0.7286	-0.5333	-0.6489	9.6990e-02	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6041	1.1838e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.3052	1.0806e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4496	9.3412e-02	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.4851	1.2995e+00	8.1003e+00
119	IPW000002	-12.2331	-6.3793	-9.4854	1.3161e+00	8.1003e+00
120	IPW000003	-12.8625	-8.9625	-10.7136	1.0714e+00	8.1004e+00
121	IPW000004	-2.2536	-1.7654	-1.9547	2.4037e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.4224	2.8793e-01	2.0002e+00
123	IPW000006	-2.8076	-1.8310	-2.2097	3.3453e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0192	3.0572e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.6370e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0164	2.5787e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0155	3.9459e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0272	1.0424e-01	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0296	9.7323e-02	4.1000e+00
130	IHT000003	-0.2817	0.3042	-0.0146	1.1059e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0155	1.0517e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0431	1.1518e-01	4.1000e+00
133	IHT000006	-0.2554	0.3305	0.0555	1.1219e-01	4.1000e+00
134	IHT000007	-0.0601	0.1352	-0.0083	8.7123e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0701	9.8153e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0343	6.8582e-02	4.1000e+00
137	IHT000010	-0.1427	0.0526	-0.0550	9.8153e-02	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0491	9.9303e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0656	9.8648e-02	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0752	1.0076e-01	4.1000e+00
141	IHT000014	-0.1953	0.1953	0.0000	7.9736e-02	4.1000e+00
142	IHT000015	-0.0488	0.1465	-0.0090	7.9532e-02	4.1000e+00
143	IHT000016	-0.1352	0.0601	-0.0276	9.8153e-02	4.1000e+00
144	IHT000017	-0.3530	0.4282	0.1173	2.3219e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0066	1.1161e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2366	8.9148e-02	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0165	8.8965e-02	4.1000e+00
148	IHT000021	-0.0714	0.1240	0.0203	9.8483e-02	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1193	9.6990e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1653	5.6382e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2697	6.1868e-02	4.1000e+00
152	IHT000025	0.0075	0.5935	0.2626	1.0701e-01	4.1000e+00
153	IHT000026	-0.1690	0.2216	-0.0056	8.3122e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	-0.0059	6.9053e-02	4.1000e+00
155	IHT000028	-0.2479	0.3381	0.0311	1.1276e-01	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.1127	-0.0149	9.3931e-02	4.1000e+00
157	IHT000030	-0.0150	0.3756	0.0567	1.0315e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0030	1.3681e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	0.0020	1.0640e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	-0.0020	1.0640e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0057	9.2189e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0796	7.3601e-02	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0323	1.1947e-01	4.1000e+00

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Velocity 1 = 0.005800 (ft/sec)

Velocity 2 = 0.006500 (ft/sec)

Pressure Drop = 0.000900 (psi)

Tsat in = 0.006500 (deg F) Tsat out = 0.035797 (deg F)

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

#	Name	Abs Diff	%Diff
0	TRF000001	0.0375	0.0509
1	TRF000002	0.0385	0.0522
2	TFM000001	0.0007	0.0008
3	TIN000001	0.0332	0.0378
4	TRV000001	0.0693	0.0791
5	TSR000001	0.0147	0.0166
6	TAO020136	0.0273	0.0335
7	TAO050136	0.0246	0.0279
8	TAO070136	0.0195	0.0221
9	TAO080136	0.0273	0.0311
10	TAO090136	0.0729	0.0826
11	TAO100136	0.0734	0.0834
12	TAO105136	0.0247	0.0279
13	TAO110136	0.0054	0.0061
14	TAO115136	0.0697	0.0789
15	TAO120136	0.0270	0.0307
16	TAO125136	0.0628	0.0710
17	TAO130136	0.0137	0.0156
18	TAO120048	0.0840	0.1088
19	TAO130048	0.0033	0.0038
20	TAO120224	0.0438	0.0498
21	TAO130224	0.0651	0.0740
22	TAO120312	0.0436	0.0496
23	TAO130312	0.0313	0.0357
24	TRT020000	0.0000	0.0000
25	TRT070000	0.0251	0.0285
26	TRT100000	0.0476	0.0538
27	TRT120000	0.0319	0.0362
28	TRT125000	0.0831	0.1093
29	TRT130000	0.0004	0.0005
30	EMPTY	0.0143	0.0361
31	TAF050136	0.0108	0.0122
32	TAF070136	0.0205	0.0248
33	TAF080136	0.0254	0.0288
34	TAF090136	0.0091	0.0120
35	TAF100136	0.0327	0.0371
36	TAF105136	0.0019	0.0022
37	TAF110136	0.0742	0.0844
38	TAF115136	0.0079	0.0089
39	TAF120136	0.0991	0.1123
40	TAF125136	0.0348	0.0394
41	TAF130136	0.0162	0.0184
42	TAF120048	0.0117	0.0132
43	TAF130048	0.0222	0.0252
44	TAF120224	0.0898	0.1017
45	TAF130224	0.0161	0.0184

#	Name	Abs Diff	%Diff
46	EMPTY	0.0398	0.1044
47	EMPTY	0.0546	0.1392
48	TAI130048	0.1040	0.1176
49	TAI130136	0.0661	0.0754
50	TAI130224	0.0179	0.0202
51	TAI130312	0.0112	0.0127
52	TRR130000	0.0513	0.0590
53	TSI000001	0.0211	0.0262
54	TSI000002	0.0539	0.0707
55	TSO000001	0.0327	0.0442
56	TSO000002	0.0763	0.0915
57	TAF020136	0.0172	0.0197
58	TAF120312	0.0009	0.0010
59	TAF130312	0.0461	0.0527
60	EMPTY	0.0018	0.3461
61	EMPTY	0.0007	0.1312
62	EMPTY	0.0013	0.2377
63	EMPTY	0.0003	0.0534
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0012	0.3174
66	EMPTY	0.0002	0.0506
67	EMPTY	0.0002	0.0482
68	EMPTY	0.0003	0.0700
69	EMPTY	0.0014	0.3134
70	EMPTY	0.0004	0.0862
71	EMPTY	0.0013	0.2678
72	EMPTY	0.0007	0.1398
73	EMPTY	0.0009	0.1726
74	EMPTY	0.0002	0.0373
75	EMPTY	0.0004	0.0722
76	EMPTY	0.0009	0.1578
77	EMPTY	0.0007	0.1186
78	EMPTY	0.0002	0.0327
79	EMPTY	0.0001	0.0157
80	PAN020136	0.0146	2.5507
81	PAN050136	0.0287	0.9424
82	PAN070136	0.0134	0.3038
83	PAN080136	0.0218	0.8690
84	PAN090136	0.0109	0.4003
85	PAN100136	0.0012	0.0788
86	PAN105136	0.0041	1.4964
87	PAN110136	0.0030	0.4762
88	PAN115136	0.0029	0.3515
89	PAN120136	0.0022	0.1302
90	PAN125136	0.0062	0.6210
91	PAN130136	0.0464	1.8781
92	PAN120048	0.0140	0.2976
93	PAN130048	0.0103	3.6383
94	PAN120224	0.0047	0.4418
95	PAN130224	0.0025	0.1607
96	PAN120312	0.0058	0.1577
97	PAN130312	0.0215	6.8038
98	PAB000136	0.0024	0.0125
99	PAB100136	0.0091	0.0463
100	PAB125136	0.0133	0.0679

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0340	0.1766
102	PRV000001	0.0677	0.3524
103	PSR000001	0.0177	0.0899
104	PFM000001	0.0178	0.1154
105	PAN000136	0.0240	0.1666
106	PFM000002	0.0190	0.1392
107	EMPTY	0.0000	0.0000
108	EMPTY	0.2724	3.3337
109	EMPTY	0.0003	8.1081
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0063	0.8175
113	VPW000002	0.0061	0.8076
114	VPW000003	0.0212	3.1637
115	VPW000004	0.0328	5.1499
116	VPW000005	0.0046	0.3537
117	VPW000006	0.0429	3.0497
118	IPW000001	0.2685	2.9132
119	IPW000002	0.3281	3.3434
120	IPW000003	0.0351	0.3287
121	IPW000004	0.1014	5.4713
122	IPW000005	0.0602	1.7286
123	IPW000006	0.0119	0.5356
124	EMPTY	0.0011	5.4187
125	EMPTY	0.0008	6.4000
126	EMPTY	0.0002	1.2346
127	EMPTY	0.0004	2.5157
128	IHT000001	0.0075	21.6138
129	IHT000002	0.0041	12.1662
130	IHT000003	0.0132	47.4820
131	IHT000004	0.0037	19.2708
132	IHT000005	0.0006	1.4118
133	IHT000006	0.0016	2.8021
134	IHT000007	0.0127	60.4762
135	IHT000008	0.0095	11.9347
136	IHT000009	0.0354	3218.1816
137	IHT000010	0.0057	9.3904
138	IHT000011	0.0027	5.8190
139	IHT000012	0.0019	2.9827
140	IHT000013	0.0247	24.7247
141	IHT000014	0.0039	100.0000
142	IHT000015	0.0070	349.9999
143	IHT000016	0.0060	17.8571
144	IHT000017	0.0094	8.7118
145	IHT000018	0.0120	64.5161
146	IHT000019	0.0195	8.9820
147	IHT000020	0.0281	63.0045
148	IHT000021	0.0099	32.7815
149	IHT000022	0.0016	1.3234
150	IHT000023	0.0000	0.0000
151	IHT000024	0.0115	4.4539
152	IHT000025	0.0066	2.4517
153	IHT000026	0.0358	118.5431
154	IHT000027	0.0229	134.7059
155	IHT000028	0.0329	1827.7777

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0013	8.0247
157	IHT000030	0.0131	30.0459
158	IHT000031	0.0224	88.1890
159	IHT000032	0.0098	125.6410
160	IHT000033	0.0059	151.2821
161	IHT000034	0.0123	68.3333
162	IHT000035	0.0081	11.3287
163	IHT000036	0.0149	31.5678

Velocity 1 = 7.9277 (ft/sec) (+/- 3.1096 %)

Velocity 2 = 7.6570 (ft/sec) (+/- 1.9545 %)

Pressure drop = -2.1902 (psi)

Tsats in = 220.4532 (deg F) Tsats out = 226.0283 (deg F)

Phi inner = 0.0043 (kBtu/hr-ft2) (+/- 133.8495 %)

Phi outer = 0.0073 (kBtu/hr-ft2) (+/- 124.6049 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.4806	74.1210	73.6642	1.4946e-01	1.9000e+00
1	TRF000002	73.5362	73.9608	73.7867	1.2642e-01	1.9000e+00
2	TFM000001	87.4432	88.0730	87.6912	1.7441e-01	1.9002e+00
3	TIN000001	86.9541	87.5853	87.2195	1.3144e-01	1.9002e+00
4	TRV000001	86.8069	87.4364	87.1049	1.8129e-01	1.9002e+00
5	TSR000001	87.8968	88.4222	88.1903	1.3224e-01	1.9002e+00
6	TAO020136	81.0326	81.9845	81.4854	2.0607e-01	1.9001e+00
7	TAO050136	87.3332	88.0673	87.6850	1.5363e-01	1.9002e+00
8	TAO070136	87.4029	88.1403	87.7444	1.7499e-01	1.9002e+00
9	TAO080136	87.1356	87.6609	87.3454	1.4193e-01	1.9002e+00
10	TAO090136	87.3259	88.1646	87.7868	2.0202e-01	1.9002e+00
11	TAO100136	87.1364	87.7668	87.5312	1.4002e-01	1.9002e+00
12	TAO105136	87.7407	88.5822	88.1992	2.1003e-01	1.9002e+00
13	TAO110136	87.5545	88.1812	87.9008	1.5432e-01	1.9002e+00
14	TAO115136	87.4723	88.2092	87.8804	2.2334e-01	1.9002e+00
15	TAO120136	87.0640	87.9043	87.6182	1.8257e-01	1.9002e+00
16	TAO125136	87.5978	88.3316	87.9915	1.6761e-01	1.9002e+00
17	TAO130136	87.2862	87.8092	87.4621	1.5249e-01	1.9002e+00
18	TAO120048	76.8282	78.2051	77.4808	3.1750e-01	1.9000e+00
19	TAO130048	87.0798	87.6051	87.2564	1.5056e-01	1.9002e+00
20	TAO120224	87.2021	87.7287	87.4294	1.4768e-01	1.9002e+00
21	TAO130224	87.1427	87.7699	87.4896	1.7797e-01	1.9002e+00
22	TAO120312	87.1901	87.7171	87.4428	1.4576e-01	1.9002e+00
23	TAO130312	87.1120	87.6381	87.2677	1.2052e-01	1.9002e+00
24	TRT020000	87.5280	88.3702	87.9407	1.8524e-01	1.9002e+00
25	TRT070000	87.3993	88.0318	87.7408	1.2886e-01	1.9002e+00
26	TRT100000	87.5976	88.3322	88.0296	1.6761e-01	1.9002e+00
27	TRT120000	87.3617	88.0977	87.7524	1.6305e-01	1.9002e+00
28	TRT125000	75.9871	76.6212	76.2867	1.6012e-01	1.9000e+00
29	TRT130000	87.3189	87.8444	87.5542	1.2650e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.6240	2.0658e-01	1.9011e+00
31	TAF050136	87.4679	88.0971	87.8243	1.4047e-01	1.9002e+00
32	TAF070136	82.3216	83.0581	82.7545	1.9972e-01	1.9001e+00
33	TAF080136	87.4139	88.0409	87.6902	1.3830e-01	1.9002e+00
34	TAF090136	75.3313	76.4966	75.9496	2.7765e-01	1.9000e+00
35	TAF100136	87.2619	87.9995	87.5948	1.7192e-01	1.9002e+00
36	TAF105136	87.3804	88.3209	87.7316	2.3342e-01	1.9002e+00
37	TAF110136	87.2664	87.7915	87.4263	1.2218e-01	1.9002e+00
38	TAF115136	87.7102	88.4448	88.0292	1.8936e-01	1.9002e+00
39	TAF120136	87.5478	87.9673	87.6993	1.2136e-01	1.9002e+00
40	TAF125136	87.3904	88.3316	87.8665	2.6414e-01	1.9002e+00
41	TAF130136	87.3403	87.8664	87.6385	1.1110e-01	1.9002e+00
42	TAF120048	87.6835	88.6332	88.0848	2.2362e-01	1.9002e+00
43	TAF130048	87.3635	87.8898	87.6199	1.3449e-01	1.9002e+00
44	TAF120224	87.3615	88.2010	87.8106	1.7349e-01	1.9002e+00
45	TAF130224	86.9269	87.4545	87.2180	1.0973e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0664	2.1912e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1832	9.6874e-02	1.9010e+00
48	TAI130048	87.3154	88.6807	87.9792	3.1198e-01	1.9002e+00
49	TAI130136	86.8907	87.5204	87.1971	1.6105e-01	1.9002e+00
50	TAI130224	87.7886	88.8407	88.3822	2.5124e-01	1.9002e+00
51	TAI130312	87.1965	87.9330	87.5873	1.6596e-01	1.9002e+00
52	TRR130000	85.9755	86.9201	86.4828	2.6698e-01	1.9002e+00
53	TSI000001	80.3398	81.0793	80.6902	1.8267e-01	1.9001e+00
54	TSI000002	75.7995	76.7530	76.2568	2.2662e-01	1.9000e+00
55	TSO000001	73.6192	74.4719	74.1135	2.0962e-01	1.9000e+00
56	TSO000002	82.5586	83.4024	82.9085	1.7112e-01	1.9001e+00
57	TAF020136	86.7535	87.4927	87.0410	1.7862e-01	1.9002e+00
58	TAF120312	86.8243	87.8735	87.3322	2.4484e-01	1.9002e+00
59	TAF130312	86.6694	87.4050	86.9763	1.9661e-01	1.9002e+00
60	EMPTY	0.5029	0.5127	0.5078	9.8648e-04	0.0000e+00
61	EMPTY	0.5225	0.5273	0.5226	6.9053e-04	0.0000e+00
62	EMPTY	0.5322	0.5371	0.5352	2.4164e-03	0.0000e+00
63	EMPTY	0.5469	0.5518	0.5512	1.6028e-03	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3515	6.9053e-04	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3730	2.4164e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3904	9.6655e-04	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4099	1.1714e-03	0.0000e+00
68	EMPTY	0.4199	0.4297	0.4246	1.3811e-03	0.0000e+00
69	EMPTY	0.4395	0.4443	0.4424	2.4164e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4589	6.9053e-04	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4828	1.6028e-03	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4965	2.3008e-03	0.0000e+00
73	EMPTY	0.5029	0.5176	0.5172	2.1702e-03	0.0000e+00
74	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5517	6.9053e-04	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5662	9.6655e-04	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5858	6.9053e-04	0.0000e+00
78	EMPTY	0.6055	0.6152	0.6090	2.4244e-03	0.0000e+00
79	EMPTY	0.6299	0.6348	0.6316	2.3675e-03	0.0000e+00
80	PAN020136	-6.8575	-6.5524	-6.6836	7.3986e-02	8.7016e-01
81	PAN050136	-14.6053	-13.9950	-14.2788	1.5105e-01	1.6804e+00
82	PAN070136	-11.2267	-10.9978	-11.0924	7.3211e-02	8.7044e-01
83	PAN080136	-5.8686	-5.5635	-5.7252	9.3301e-02	8.7012e-01
84	PAN090136	-6.0036	-5.6222	-5.8541	7.2231e-02	8.7012e-01
85	PAN100136	-5.1717	-4.9428	-5.0954	6.3552e-02	8.7009e-01
86	PAN105136	-2.2088	-1.9799	-2.1020	7.2297e-02	8.7002e-01
87	PAN110136	-1.6527	-1.4238	-1.5764	6.5395e-02	8.7001e-01
88	PAN115136	-1.6850	-1.3798	-1.5492	7.2772e-02	8.7001e-01
89	PAN120136	-1.0262	-0.7210	-0.8751	7.4705e-02	8.7000e-01
90	PAN125136	-2.9806	-2.6754	-2.8509	7.5904e-02	8.7003e-01
91	PAN130136	-3.7859	-3.4808	-3.6211	6.7820e-02	8.7005e-01
92	PAN120048	-7.4517	-7.1465	-7.2717	7.6698e-02	8.7019e-01
93	PAN130048	-4.0962	-3.7910	-3.9390	7.6154e-02	8.7006e-01
94	PAN120224	-3.5153	-3.2101	-3.3474	7.5511e-02	8.7004e-01
95	PAN130224	-5.1892	-4.8841	-5.0565	7.3616e-02	8.7009e-01
96	PAN120312	-6.5538	-6.2486	-6.4119	7.2313e-02	8.7015e-01
97	PAN130312	-4.4191	-4.1139	-4.2360	8.0092e-02	8.7006e-01
98	PAB000136	17.3399	17.4772	17.3976	4.0110e-02	5.8163e-01
99	PAB100136	18.9905	19.1278	19.0473	3.9843e-02	5.8195e-01
100	PAB125136	19.3056	19.4430	19.3743	4.3624e-02	5.8202e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	17.2536	17.6198	17.3561	6.2195e-02	7.5125e-01
102	PRV000001	19.1082	19.2303	19.2181	3.6993e-02	7.5154e-01
103	PSR000001	19.5470	19.7911	19.6740	3.4527e-02	7.5161e-01
104	PFM000001	9.3313	9.6975	9.5346	8.9263e-02	5.0057e-01
105	PAN000136	-60.8382	-60.3804	-60.6367	2.2953e-01	4.9223e+00
106	PFM000002	8.1211	9.2286	8.8869	2.3263e-01	2.0123e-01
107	EMPTY	0.0000	0.0098	0.0045	1.6624e-03	0.0000e+00
108	EMPTY	-10.0000	-6.6064	-7.9546	1.1230e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0017	2.3365e-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	-0.8526	-0.4620	-0.7628	1.1306e-01	8.1001e-01
113	VPW000002	-1.0404	-0.6498	-0.7904	9.6976e-02	8.1001e-01
114	VPW000003	-0.7286	-0.5333	-0.6388	9.8332e-02	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6486	1.1409e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.2928	1.1334e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4419	1.2104e-01	8.1005e-01
118	IPW000001	-13.6289	-7.7719	-9.7242	1.3664e+00	8.1004e+00
119	IPW000002	-12.2331	-6.3793	-9.6574	1.1453e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-10.6005	1.1391e+00	8.1004e+00
121	IPW000004	-2.2536	-1.2771	-1.8533	2.3531e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5509	3.1580e-01	2.0002e+00
123	IPW000006	-2.8076	-1.8310	-2.2705	2.6562e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0197	3.5513e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	3.2777e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0166	2.7902e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.2133e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0269	8.6810e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0180	9.0412e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0278	9.0412e-02	4.1000e+00
131	IHT000004	-0.2028	0.3831	0.0198	1.0447e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0152	1.0052e-01	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0649	1.0259e-01	4.1000e+00
134	IHT000007	-0.0601	0.1352	-0.0093	8.6541e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0874	9.4702e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0146	7.2866e-02	4.1000e+00
137	IHT000010	-0.3380	0.0526	-0.0646	1.1161e-01	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0660	9.0756e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0832	9.7377e-02	4.1000e+00
140	IHT000013	-0.0563	0.1390	0.0921	8.4262e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0039	9.2456e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0293	7.1136e-02	4.1000e+00
143	IHT000016	-0.1352	0.0601	-0.0297	9.8332e-02	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.1157	2.7052e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0147	9.6332e-02	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2210	8.6810e-02	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0564	7.8918e-02	4.1000e+00
148	IHT000021	-0.0714	0.1240	-0.0049	9.3461e-02	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1209	9.6655e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1496	8.6810e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2739	9.6332e-02	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2888	9.7935e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0302	8.3612e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	0.0092	8.1729e-02	4.1000e+00
155	IHT000028	-0.0526	0.1427	0.0177	9.4702e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.1127	-0.0436	8.8233e-02	4.1000e+00
157	IHT000030	-0.0150	0.3756	0.0397	9.6976e-02	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0293	1.2478e-01	4.1000e+00
159	IHT000032	-0.0976	0.0977	-0.0234	9.5765e-02	4.1000e+00
160	IHT000033	-0.0977	0.0976	-0.0195	9.6655e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0141	8.4997e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0559	1.0741e-01	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0355	1.1361e-01	4.1000e+00

Velocity 1 = 7.9707 (ft/sec) (+/- 3.0855 %)
Velocity 2 = 7.6162 (ft/sec) (+/- 1.9602 %)
Pressure drop = -2.1941 (psi)
Tsat in = 220.5111 (deg F) Tsat out = 226.1135 (deg F)
Phi inner = 0.0045 (kBtu/hr-ft2) (+/- 132.0959 %)
Phi outer = 0.0072 (kBtu/hr-ft2) (+/- 125.9876 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	73.2671	73.9075	73.6680	1.7229e-01	1.9000e+00
1	TRF0000002	73.5362	73.9608	73.7615	1.3979e-01	1.9000e+00
2	TFM0000001	87.2335	88.0735	87.6150	1.8636e-01	1.9002e+00
3	TIN0000001	86.9541	87.4806	87.2163	1.4423e-01	1.9002e+00
4	TRV0000001	86.5982	87.4359	87.0810	1.9121e-01	1.9002e+00
5	TSR0000001	87.7913	88.4216	88.1365	1.5596e-01	1.9002e+00
6	TAO020136	80.9271	81.9845	81.4774	2.3448e-01	1.9001e+00
7	TAO050136	87.2282	87.9618	87.6495	1.5369e-01	1.9002e+00
8	TAO070136	87.1918	88.0350	87.6503	1.8328e-01	1.9002e+00
9	TAO080136	86.8218	87.6603	87.2858	1.7527e-01	1.9002e+00
10	TAO090136	87.4303	88.2694	87.7663	1.7372e-01	1.9002e+00
11	TAO100136	87.2411	87.8717	87.5136	1.5894e-01	1.9002e+00
12	TAO105136	87.7413	88.5816	88.1529	2.1764e-01	1.9002e+00
13	TAO110136	87.5539	88.2861	87.8483	1.6907e-01	1.9002e+00
14	TAO115136	87.3674	88.2086	87.8330	2.3808e-01	1.9002e+00
15	TAO120136	87.1684	87.9037	87.6038	1.6758e-01	1.9002e+00
16	TAO125136	87.3867	88.2271	87.9589	1.8929e-01	1.9002e+00
17	TAO130136	87.0792	87.8092	87.4444	1.5818e-01	1.9002e+00
18	TAO120048	76.9335	77.9936	77.4552	2.9854e-01	1.9000e+00
19	TAO130048	86.9742	87.6051	87.1874	1.2799e-01	1.9002e+00
20	TAO120224	87.0966	87.7281	87.3697	1.5618e-01	1.9002e+00
21	TAO130224	87.1427	87.9779	87.4753	2.2016e-01	1.9002e+00
22	TAO120312	87.0851	87.7165	87.3793	1.6075e-01	1.9002e+00
23	TAO130312	87.0064	87.6375	87.2666	1.4880e-01	1.9002e+00
24	TRT020000	87.4230	88.4759	87.9213	2.1889e-01	1.9002e+00
25	TRT070000	87.2937	88.0324	87.7048	1.5699e-01	1.9002e+00
26	TRT100000	87.5976	88.3322	87.9828	2.0582e-01	1.9002e+00
27	TRT120000	87.3617	88.0971	87.7133	1.5554e-01	1.9002e+00
28	TRT125000	75.7752	76.6212	76.1788	1.8634e-01	1.9000e+00
29	TRT130000	87.2133	87.8444	87.5462	1.6380e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6103	2.0686e-01	1.9011e+00
31	TAF050136	87.4679	88.2020	87.8485	1.7619e-01	1.9002e+00
32	TAF070136	82.3216	83.0581	82.6906	2.3017e-01	1.9001e+00
33	TAF080136	87.3089	87.9382	87.6064	1.7154e-01	1.9002e+00
34	TAF090136	75.3307	76.4966	75.9234	2.7089e-01	1.9000e+00
35	TAF100136	87.1570	87.9989	87.5801	1.9401e-01	1.9002e+00
36	TAF105136	87.0666	88.1128	87.6494	2.5674e-01	1.9002e+00
37	TAF110136	87.0573	87.7915	87.3996	1.5114e-01	1.9002e+00
38	TAF115136	87.6046	88.4448	87.9374	2.2495e-01	1.9002e+00
39	TAF120136	87.4423	87.9679	87.6554	1.4147e-01	1.9002e+00
40	TAF125136	87.2854	88.5391	87.8889	2.4879e-01	1.9002e+00
41	TAF130136	87.3403	87.8658	87.5804	1.4703e-01	1.9002e+00
42	TAF120048	87.4728	88.4229	88.0240	2.2624e-01	1.9002e+00
43	TAF130048	87.2585	87.8892	87.5695	1.5318e-01	1.9002e+00
44	TAF120224	87.4655	88.0965	87.7641	1.7954e-01	1.9002e+00
45	TAF130224	86.8213	87.5593	87.1379	1.9124e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0912	2.3894e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2402	1.1403e-01	1.9010e+00
48	TAI130048	87.1054	88.4709	87.9713	3.2190e-01	1.9002e+00
49	TAI130136	86.8907	87.5198	87.1820	1.6905e-01	1.9002e+00
50	TAI130224	87.7886	88.8413	88.3128	2.7460e-01	1.9002e+00
51	TAI130312	87.1960	87.9324	87.5181	1.8887e-01	1.9002e+00
52	TRR130000	85.9755	87.1286	86.4120	2.2479e-01	1.9002e+00
53	TSI000001	80.3398	81.0787	80.6887	1.8186e-01	1.9001e+00
54	TSI000002	75.6936	76.7524	76.2359	2.3524e-01	1.9000e+00
55	TSO000001	73.6192	74.4713	74.0801	1.9261e-01	1.9000e+00
56	TSO000002	82.4526	83.4024	82.8963	2.0884e-01	1.9001e+00
57	TAF020136	86.6479	87.2822	87.0167	1.6572e-01	1.9002e+00
58	TAF120312	86.8238	87.8741	87.3254	2.2912e-01	1.9002e+00
59	TAF130312	86.6694	87.2995	86.9226	1.6181e-01	1.9002e+00
60	EMPTY	0.5029	0.5127	0.5078	1.4095e-03	0.0000e+00
61	EMPTY	0.5176	0.5225	0.5223	9.7615e-04	0.0000e+00
62	EMPTY	0.5273	0.5371	0.5333	2.2871e-03	0.0000e+00
63	EMPTY	0.5469	0.5518	0.5493	2.4662e-03	0.0000e+00
64	EMPTY	0.3467	0.3564	0.3511	2.0535e-03	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3714	1.1827e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3890	2.3135e-03	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4077	2.4662e-03	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4226	2.4538e-03	0.0000e+00
69	EMPTY	0.4395	0.4443	0.4406	2.1215e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4577	2.1781e-03	0.0000e+00
71	EMPTY	0.4736	0.4834	0.4799	2.4414e-03	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4944	2.1215e-03	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5149	2.4538e-03	0.0000e+00
74	EMPTY	0.5273	0.5371	0.5321	1.2165e-03	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5499	2.4037e-03	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5651	2.1781e-03	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5858	6.9754e-04	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6071	2.3135e-03	0.0000e+00
79	EMPTY	0.6299	0.6348	0.6301	9.7615e-04	0.0000e+00
80	PAN020136	-6.7812	-6.4761	-6.6847	8.3540e-02	8.7016e-01
81	PAN050136	-14.6053	-14.1476	-14.3188	1.3445e-01	1.6804e+00
82	PAN070136	-11.2267	-10.9978	-11.1068	7.1366e-02	8.7044e-01
83	PAN080136	-5.8686	-5.6398	-5.7612	7.9284e-02	8.7012e-01
84	PAN090136	-6.0036	-5.7748	-5.8604	7.7293e-02	8.7012e-01
85	PAN100136	-5.1717	-4.9428	-5.1048	5.9573e-02	8.7009e-01
86	PAN105136	-2.2088	-1.9799	-2.0889	7.1366e-02	8.7002e-01
87	PAN110136	-1.7290	-1.5001	-1.5842	6.2769e-02	8.7001e-01
88	PAN115136	-1.7613	-1.4561	-1.5791	7.2740e-02	8.7001e-01
89	PAN120136	-1.0262	-0.7210	-0.8752	7.2194e-02	8.7000e-01
90	PAN125136	-2.9806	-2.7517	-2.8466	5.0537e-02	8.7003e-01
91	PAN130136	-3.7859	-3.4808	-3.6302	6.4134e-02	8.7005e-01
92	PAN120048	-7.4517	-7.1465	-7.2976	6.8752e-02	8.7019e-01
93	PAN130048	-4.0962	-3.8673	-3.9389	7.0354e-02	8.7006e-01
94	PAN120224	-3.5153	-3.2101	-3.3643	7.7069e-02	8.7004e-01
95	PAN130224	-5.1892	-4.8078	-5.0444	7.3451e-02	8.7009e-01
96	PAN120312	-6.6301	-6.2486	-6.4230	8.2407e-02	8.7015e-01
97	PAN130312	-4.4191	-4.1139	-4.2556	7.7867e-02	8.7007e-01
98	PAB000136	17.3399	17.4772	17.4174	3.6435e-02	5.8163e-01
99	PAB100136	18.9905	19.1278	19.0746	4.0024e-02	5.8196e-01
100	PAB125136	19.3514	19.4887	19.4056	3.9282e-02	5.8203e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	17.2536	17.4978	17.3707	3.4877e-02	7.5126e-01
102	PRV000001	19.1082	19.2303	19.1730	6.1552e-02	7.5153e-01
103	PSR000001	19.6691	19.7911	19.6740	2.4404e-02	7.5161e-01
104	PFM000001	9.5144	9.7891	9.6396	7.4034e-02	5.0058e-01
105	PAN000136	-60.8382	-60.3804	-60.7447	1.8640e-01	4.9223e+00
106	PFM000002	7.8358	9.1782	8.7916	2.3283e-01	2.0120e-01
107	EMPTY	-0.0049	0.0049	0.0042	2.2287e-03	0.0000e+00
108	EMPTY	-10.0000	-4.8633	-7.5189	1.1918e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0022	2.4538e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.8526	-0.6573	-0.7530	9.8648e-02	8.1001e-01
113	VPW000002	-0.8451	-0.6498	-0.7733	9.5132e-02	8.1001e-01
114	VPW000003	-0.9240	-0.3380	-0.6569	1.1755e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6440	1.0299e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.2932	1.2122e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4337	8.2141e-02	8.1005e-01
118	IPW000001	-11.6766	-5.8195	-9.7242	1.2602e+00	8.1004e+00
119	IPW000002	-12.2331	-6.3793	-9.4456	1.4361e+00	8.1003e+00
120	IPW000003	-12.8625	-8.9625	-10.9125	1.1941e+00	8.1005e+00
121	IPW000004	-2.2536	-1.2771	-1.9049	2.8191e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5220	2.9830e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2396	3.6413e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0197	3.1454e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0138	2.3740e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0167	2.6370e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.3634e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0192	7.9328e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0256	8.3705e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0306	8.9148e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0035	8.4477e-02	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0392	9.7656e-02	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0555	1.1219e-01	4.1000e+00
134	IHT000007	-0.0601	0.1352	-0.0162	8.2338e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0900	9.3931e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0103	1.0424e-01	4.1000e+00
137	IHT000010	-0.3380	0.0526	-0.0790	1.0076e-01	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0412	1.0204e-01	4.1000e+00
139	IHT000012	-0.3606	0.2254	-0.0537	1.1276e-01	4.1000e+00
140	IHT000013	-0.0563	0.1390	0.1031	7.6412e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	0.0000	9.7656e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	0.0109	9.9303e-02	4.1000e+00
143	IHT000016	-0.1352	0.2554	-0.0037	1.0076e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.1532	2.6421e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0185	1.0911e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2326	1.0156e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0245	9.2189e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0243	1.0640e-01	4.1000e+00
149	IHT000022	0.0037	0.3944	0.1074	1.1348e-01	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1573	8.8783e-02	4.1000e+00
151	IHT000024	-0.4770	0.1089	-0.2578	8.5810e-02	4.1000e+00
152	IHT000025	0.2028	0.5935	0.2706	1.0955e-01	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0223	6.2908e-02	4.1000e+00
154	IHT000027	-0.0338	0.3568	0.0140	9.3759e-02	4.1000e+00
155	IHT000028	-0.2479	0.3381	0.0311	1.1276e-01	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.3080	-0.0149	1.0204e-01	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0607	1.1838e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0030	1.2465e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	0.0140	1.0548e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	-0.0060	1.0625e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0216	8.7680e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0835	9.6318e-02	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0523	1.2095e-01	4.1000e+00

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Velocity 1 = 0.043000 (ft/sec)

Velocity 2 = 0.040800 (ft/sec)

Pressure Drop = 0.003900 (psi)

Tsat in = 0.057892 (deg F) Tsat out = 0.085190 (deg F)

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

#	Name	Abs Diff	%Diff
0	TRF000001	0.0038	0.0052
1	TRF000002	0.0252	0.0342
2	TFM000001	0.0762	0.0869
3	TIN000001	0.0032	0.0037
4	TRV000001	0.0239	0.0274
5	TSR000001	0.0538	0.0610
6	TAO020136	0.0080	0.0098
7	TAO050136	0.0355	0.0405
8	TAO070136	0.0941	0.1072
9	TAO080136	0.0596	0.0682
10	TAO090136	0.0205	0.0234
11	TAO100136	0.0176	0.0201
12	TAO105136	0.0463	0.0525
13	TAO110136	0.0525	0.0597
14	TAO115136	0.0474	0.0539
15	TAO120136	0.0144	0.0164
16	TAO125136	0.0326	0.0370
17	TAO130136	0.0177	0.0202
18	TAO120048	0.0256	0.0330
19	TAO130048	0.0690	0.0791
20	TAO120224	0.0597	0.0683
21	TAO130224	0.0143	0.0163
22	TAO120312	0.0635	0.0726
23	TAO130312	0.0011	0.0013
24	TRT020000	0.0194	0.0221
25	TRT070000	0.0360	0.0410
26	TRT100000	0.0468	0.0532
27	TRT120000	0.0391	0.0446
28	TRT125000	0.1079	0.1414
29	TRT130000	0.0080	0.0091
30	EMPTY	0.0137	0.0346
31	TAF050136	0.0242	0.0276
32	TAF070136	0.0639	0.0772
33	TAF080136	0.0838	0.0956
34	TAF090136	0.0262	0.0345
35	TAF100136	0.0147	0.0168
36	TAF105136	0.0822	0.0937
37	TAF110136	0.0267	0.0305
38	TAF115136	0.0918	0.1043
39	TAF120136	0.0439	0.0501
40	TAF125136	0.0224	0.0255
41	TAF130136	0.0581	0.0663
42	TAF120048	0.0608	0.0690
43	TAF130048	0.0504	0.0575
44	TAF120224	0.0465	0.0530
45	TAF130224	0.0801	0.0918

#	Name	Abs Diff	%Diff
46	EMPTY	0.0248	0.0652
47	EMPTY	0.0570	0.1455
48	TAI130048	0.0079	0.0090
49	TAI130136	0.0151	0.0173
50	TAI130224	0.0694	0.0785
51	TAI130312	0.0692	0.0790
52	TRR130000	0.0708	0.0819
53	TSI000001	0.0015	0.0019
54	TSI000002	0.0209	0.0274
55	TSO000001	0.0334	0.0451
56	TSO000002	0.0122	0.0147
57	TAF020136	0.0243	0.0279
58	TAF120312	0.0068	0.0078
59	TAF130312	0.0537	0.0617
60	EMPTY	0.0000	0.0000
61	EMPTY	0.0003	0.0574
62	EMPTY	0.0019	0.3550
63	EMPTY	0.0019	0.3447
64	EMPTY	0.0004	0.1138
65	EMPTY	0.0016	0.4290
66	EMPTY	0.0014	0.3586
67	EMPTY	0.0022	0.5367
68	EMPTY	0.0020	0.4710
69	EMPTY	0.0018	0.4069
70	EMPTY	0.0012	0.2615
71	EMPTY	0.0029	0.6007
72	EMPTY	0.0021	0.4230
73	EMPTY	0.0023	0.4447
74	EMPTY	0.0001	0.0188
75	EMPTY	0.0018	0.3263
76	EMPTY	0.0011	0.1943
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0019	0.3120
79	EMPTY	0.0015	0.2375
80	PAN020136	0.0011	0.0165
81	PAN050136	0.0400	0.2801
82	PAN070136	0.0144	0.1298
83	PAN080136	0.0360	0.6288
84	PAN090136	0.0063	0.1076
85	PAN100136	0.0094	0.1845
86	PAN105136	0.0131	0.6232
87	PAN110136	0.0078	0.4948
88	PAN115136	0.0299	1.9300
89	PAN120136	0.0001	0.0114
90	PAN125136	0.0043	0.1508
91	PAN130136	0.0091	0.2513
92	PAN120048	0.0259	0.3562
93	PAN130048	0.0001	0.0025
94	PAN120224	0.0169	0.5049
95	PAN130224	0.0121	0.2393
96	PAN120312	0.0111	0.1731
97	PAN130312	0.0196	0.4627
98	PAB000136	0.0198	0.1138
99	PAB100136	0.0273	0.1433
100	PAB125136	0.0313	0.1616

#	Name	Abs Diff	%Diff
101	PIN000001	0.0146	0.0841
102	PRV000001	0.0451	0.2347
103	PSR000001	0.0000	0.0000
104	PFM000001	0.1050	1.1012
105	PAN000136	0.1080	0.1781
106	PFM000002	0.0953	1.0724
107	EMPTY	0.0003	6.6667
108	EMPTY	0.4357	5.4773
109	EMPTY	0.0005	29.4118
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0098	1.2847
113	VPW000002	0.0171	2.1635
114	VPW000003	0.0181	2.8334
115	VPW000004	0.0046	0.7092
116	VPW000005	0.0004	0.0309
117	VPW000006	0.0082	0.5687
118	IPW000001	0.0000	0.0000
119	IPW000002	0.2118	2.1931
120	IPW000003	0.3120	2.9433
121	IPW000004	0.0516	2.7842
122	IPW000005	0.0289	0.8139
123	IPW000006	0.0309	1.3609
124	EMPTY	0.0000	0.0000
125	EMPTY	0.0005	3.7594
126	EMPTY	0.0001	0.6024
127	EMPTY	0.0001	0.6135
128	IHT000001	0.0077	28.6245
129	IHT000002	0.0076	42.2222
130	IHT000003	0.0028	10.0719
131	IHT000004	0.0233	117.6768
132	IHT000005	0.0240	157.8947
133	IHT000006	0.0094	14.4838
134	IHT000007	0.0069	74.1936
135	IHT000008	0.0026	2.9748
136	IHT000009	0.0043	29.4521
137	IHT000010	0.0144	22.2910
138	IHT000011	0.0248	37.5758
139	IHT000012	0.0295	35.4567
140	IHT000013	0.0110	11.9435
141	IHT000014	0.0039	100.0000
142	IHT000015	0.0402	137.2014
143	IHT000016	0.0260	87.5421
144	IHT000017	0.0375	32.4114
145	IHT000018	0.0038	25.8503
146	IHT000019	0.0116	5.2489
147	IHT000020	0.0319	56.5603
148	IHT000021	0.0292	595.9183
149	IHT000022	0.0135	11.1663
150	IHT000023	0.0077	5.1471
151	IHT000024	0.0161	5.8781
152	IHT000025	0.0182	6.3019
153	IHT000026	0.0079	26.1589
154	IHT000027	0.0048	52.1739
155	IHT000028	0.0134	75.7062

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0287	65.8257
157	IHT000030	0.0210	52.8967
158	IHT000031	0.0263	89.7611
159	IHT000032	0.0374	159.8291
160	IHT000033	0.0135	69.2308
161	IHT000034	0.0075	53.1915
162	IHT000035	0.0276	49.3739
163	IHT000036	0.0168	47.3239

Velocity 1 = 6.0208 (ft/sec) (+/- 4.8755 %)
Velocity 2 = 5.8685 (ft/sec) (+/- 2.4106 %)
Pressure drop = -3.4250 (psi)
Tsats in = 216.5005 (deg F) Tsats out = 225.7333 (deg F)
Phi inner = 0.0041 (kBtu/hr-ft2) (+/- 137.2758 %)
Phi outer = 0.0070 (kBtu/hr-ft2) (+/- 127.5642 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.2671	73.9075	73.7026	1.6681e-01	1.9000e+00
1	TRF000002	73.5362	74.5973	73.8504	1.6180e-01	1.9000e+00
2	TFM000001	87.0237	87.6543	87.3811	1.7224e-01	1.9002e+00
3	TIN000001	86.3230	87.0591	86.5927	1.5795e-01	1.9002e+00
4	TRV000001	86.3884	87.3325	86.8374	1.9990e-01	1.9002e+00
5	TSR000001	87.4787	88.2130	87.8228	1.4692e-01	1.9002e+00
6	TAO020136	80.9266	81.9845	81.4558	2.2909e-01	1.9001e+00
7	TAO050136	87.1237	87.8580	87.4098	1.6684e-01	1.9002e+00
8	TAO070136	87.0861	87.8242	87.4364	1.7747e-01	1.9002e+00
9	TAO080136	86.7175	87.3461	87.0160	1.6041e-01	1.9002e+00
10	TAO090136	87.1159	88.0600	87.4980	2.1157e-01	1.9002e+00
11	TAO100136	86.9267	87.6621	87.2714	1.5318e-01	1.9002e+00
12	TAO105136	87.5299	88.4770	87.8546	2.2061e-01	1.9002e+00
13	TAO110136	87.3451	87.8710	87.6224	1.5635e-01	1.9002e+00
14	TAO115136	87.0519	87.9985	87.5021	2.2583e-01	1.9002e+00
15	TAO120136	86.8533	87.7987	87.3327	1.9129e-01	1.9002e+00
16	TAO125136	87.3877	88.0177	87.7110	1.7079e-01	1.9002e+00
17	TAO130136	86.8716	87.6047	87.1814	1.8145e-01	1.9002e+00
18	TAO120048	77.0399	77.9936	77.5359	3.0207e-01	1.9000e+00
19	TAO130048	86.6606	87.3960	86.9847	1.4986e-01	1.9002e+00
20	TAO120224	86.7822	87.4133	87.1188	1.4877e-01	1.9002e+00
21	TAO130224	86.7259	87.6668	87.2113	2.2014e-01	1.9002e+00
22	TAO120312	86.7693	87.5062	87.1441	1.8058e-01	1.9002e+00
23	TAO130312	86.6929	87.4280	87.0040	1.5593e-01	1.9002e+00
24	TRT020000	87.2116	87.9491	87.6205	1.8384e-01	1.9002e+00
25	TRT070000	87.0815	87.7147	87.4405	1.5219e-01	1.9002e+00
26	TRT100000	87.3876	88.3321	87.7744	2.2670e-01	1.9002e+00
27	TRT120000	87.1519	87.8870	87.4673	1.6168e-01	1.9002e+00
28	TRT125000	75.8811	76.6219	76.2534	1.6150e-01	1.9000e+00
29	TRT130000	86.8997	88.0538	87.2653	1.9238e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6240	2.1171e-01	1.9011e+00
31	TAF050136	87.1551	87.9932	87.5610	1.9596e-01	1.9002e+00
32	TAF070136	82.3216	83.0587	82.6124	1.7838e-01	1.9001e+00
33	TAF080136	87.1027	87.7309	87.3865	1.5710e-01	1.9002e+00
34	TAF090136	75.4373	76.7078	76.0006	2.8751e-01	1.9000e+00
35	TAF100136	87.0508	87.7873	87.3421	1.5417e-01	1.9002e+00
36	TAF105136	86.9638	87.9047	87.4198	2.2885e-01	1.9002e+00
37	TAF110136	86.8475	87.5827	87.1296	1.7149e-01	1.9002e+00
38	TAF115136	87.2906	88.2355	87.7781	2.1894e-01	1.9002e+00
39	TAF120136	87.1298	87.8642	87.4781	1.4304e-01	1.9002e+00
40	TAF125136	87.1821	88.0179	87.6255	2.4351e-01	1.9002e+00
41	TAF130136	87.1302	87.6563	87.2952	1.2058e-01	1.9002e+00
42	TAF120048	87.4722	88.4200	87.8225	1.9695e-01	1.9002e+00
43	TAF130048	87.0490	87.6792	87.3181	1.3131e-01	1.9002e+00
44	TAF120224	87.1519	87.8870	87.5049	2.0199e-01	1.9002e+00
45	TAF130224	86.7152	87.2414	86.8803	1.1686e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0710	1.7652e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2108	1.0415e-01	1.9010e+00
48	TAI130048	86.8953	88.1562	87.6770	2.8710e-01	1.9002e+00
49	TAI130136	86.5775	87.4162	86.9588	1.7321e-01	1.9002e+00
50	TAI130224	87.4730	88.7345	88.1633	2.8050e-01	1.9002e+00
51	TAI130312	86.8809	87.9315	87.3014	2.0596e-01	1.9002e+00
52	TRR130000	85.7662	86.5015	86.2405	1.7986e-01	1.9002e+00
53	TSI000001	80.3392	81.0787	80.6483	1.6504e-01	1.9001e+00
54	TSI000002	75.9055	77.1747	76.4134	2.4553e-01	1.9000e+00
55	TSO000001	73.8320	74.7912	74.3053	1.9981e-01	1.9000e+00
56	TSO000002	82.1367	83.0856	82.6176	1.8104e-01	1.9001e+00
57	TAF020136	86.3303	87.0697	86.7911	1.6499e-01	1.9002e+00
58	TAF120312	86.6138	87.5596	87.0721	2.4718e-01	1.9002e+00
59	TAF130312	86.4590	87.0898	86.6996	1.4561e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.5004	2.4642e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5146	2.4164e-03	0.0000e+00
62	EMPTY	0.5273	0.5322	0.5275	9.6655e-04	0.0000e+00
63	EMPTY	0.5420	0.5469	0.5423	1.1714e-03	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3472	1.4797e-03	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3708	1.1714e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3859	9.6655e-04	0.0000e+00
67	EMPTY	0.4053	0.4053	0.4053	0.0000e+00	0.0000e+00
68	EMPTY	0.4199	0.4297	0.4203	1.6624e-03	0.0000e+00
69	EMPTY	0.4346	0.4443	0.4395	9.8648e-04	0.0000e+00
70	EMPTY	0.4443	0.4590	0.4541	1.7086e-03	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4784	6.9053e-04	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4933	6.9053e-04	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5130	1.1714e-03	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5292	2.3941e-03	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5470	6.9053e-04	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5618	1.1714e-03	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5818	1.8082e-03	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6056	6.9053e-04	0.0000e+00
79	EMPTY	0.6299	0.6299	0.6299	0.0000e+00	0.0000e+00
80	PAN020136	-11.4352	-11.2063	-11.3482	7.0651e-02	8.7046e-01
81	PAN050136	-22.8451	-22.3873	-22.6070	1.3137e-01	1.6810e+00
82	PAN070136	-16.1095	-15.8043	-16.0011	7.2444e-02	8.7092e-01
83	PAN080136	-8.1575	-7.9286	-8.0415	6.2116e-02	8.7023e-01
84	PAN090136	-8.2162	-7.9873	-8.0941	6.7187e-02	8.7024e-01
85	PAN100136	-7.9183	-7.6894	-7.7962	7.8595e-02	8.7022e-01
86	PAN105136	-3.5058	-3.2769	-3.3822	6.8742e-02	8.7004e-01
87	PAN110136	-3.4075	-3.1786	-3.2839	7.0449e-02	8.7004e-01
88	PAN115136	-3.4398	-3.0583	-3.2536	8.1794e-02	8.7004e-01
89	PAN120136	-2.9335	-2.7047	-2.7993	5.4626e-02	8.7003e-01
90	PAN125136	-4.3538	-4.0487	-4.2348	7.2559e-02	8.7006e-01
91	PAN130136	-4.5489	-4.3200	-4.3826	7.0111e-02	8.7007e-01
92	PAN120048	-9.5116	-9.2065	-9.3819	6.7627e-02	8.7032e-01
93	PAN130048	-7.0717	-6.8428	-6.9282	6.0957e-02	8.7017e-01
94	PAN120224	-6.7959	-6.5671	-6.6418	6.2592e-02	8.7016e-01
95	PAN130224	-7.7832	-7.5544	-7.6703	6.5829e-02	8.7021e-01
96	PAN120312	-8.6137	-8.2322	-8.3940	7.6512e-02	8.7025e-01
97	PAN130312	-7.3182	-7.0131	-7.1763	8.1576e-02	8.7018e-01
98	PAB000136	16.0124	16.1497	16.0737	3.5350e-02	5.8139e-01
99	PAB100136	18.5785	18.7158	18.6417	4.3269e-02	5.8187e-01
100	PAB125136	19.2141	19.3514	19.2663	3.8143e-02	5.8200e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	15.9108	16.1550	16.0329	2.4662e-02	7.5107e-01
102	PRV000001	19.1082	19.2303	19.2132	4.2787e-02	7.5154e-01
103	PSR000001	19.6691	19.7911	19.6788	3.3453e-02	7.5161e-01
104	PFM000001	5.3030	5.6692	5.4586	9.2943e-02	5.0019e-01
105	PAN000136	-95.1705	-94.7127	-94.8225	1.9749e-01	4.9257e+00
106	PFM000002	5.0168	5.3189	5.1819	7.7850e-02	2.0042e-01
107	EMPTY	-0.0049	0.0049	0.0036	2.7568e-03	0.0000e+00
108	EMPTY	-10.0000	-5.3564	-7.3414	6.0239e-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	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-0.8526	-0.6573	-0.7549	9.8648e-02	8.1001e-01
113	VPW000002	-1.2357	-0.4545	-0.7787	1.2232e-01	8.1001e-01
114	VPW000003	-0.7286	-0.3380	-0.6193	1.1272e-01	8.1001e-01
115	VPW000004	-0.8752	-0.2892	-0.6056	1.2409e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.2459	1.1168e-01	8.1003e-01
117	VPW000006	-1.6499	-1.0630	-1.4380	1.1732e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.6852	1.2151e+00	8.1004e+00
119	IPW000002	-10.2818	-6.3793	-9.2282	1.2596e+00	8.1003e+00
120	IPW000003	-12.8625	-7.0125	-10.4055	1.0281e+00	8.1004e+00
121	IPW000004	-2.2536	-1.2771	-1.8435	2.8523e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.4435	3.3653e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2021	3.6326e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0098	-0.0202	4.3011e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.8862e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0163	3.3613e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.1257e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0425	9.1354e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0258	9.1779e-02	4.1000e+00
130	IHT000003	-0.0864	0.3042	-0.0161	1.0259e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	0.0042	9.9902e-02	4.1000e+00
132	IHT000005	-0.2066	0.3794	-0.0308	1.2633e-01	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0649	1.0992e-01	4.1000e+00
134	IHT000007	-0.0601	0.3305	-0.0054	9.6976e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0445	9.7377e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	0.0089	8.5454e-02	4.1000e+00
137	IHT000010	-0.1427	0.2479	-0.0451	1.1334e-01	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0347	9.5765e-02	4.1000e+00
139	IHT000012	-0.1653	0.2254	-0.0481	1.0440e-01	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.1038	1.0206e-01	4.1000e+00
141	IHT000014	-0.1953	0.1953	0.0156	8.6810e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	0.0058	9.6976e-02	4.1000e+00
143	IHT000016	-0.1352	0.2554	-0.0102	1.0992e-01	4.1000e+00
144	IHT000017	-0.3530	0.4282	0.1352	2.3093e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0186	1.1497e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2327	1.0052e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0485	8.7880e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0341	1.0595e-01	4.1000e+00
149	IHT000022	0.0037	0.3944	0.1131	1.0559e-01	4.1000e+00
150	IHT000023	-0.0300	0.5559	0.1653	7.8918e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2543	9.6735e-02	4.1000e+00
152	IHT000025	0.2028	0.7888	0.2692	1.1578e-01	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0224	7.3716e-02	4.1000e+00
154	IHT000027	-0.2291	0.1615	0.0014	9.4125e-02	4.1000e+00
155	IHT000028	-0.0526	0.3381	0.0295	1.0507e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.1127	-0.0201	9.2034e-02	4.1000e+00
157	IHT000030	-0.0150	0.1803	0.0475	9.2034e-02	4.1000e+00
158	IHT000031	-0.3418	0.2441	-0.0059	1.1864e-01	4.1000e+00
159	IHT000032	-0.2930	0.0977	0.0000	1.0625e-01	4.1000e+00
160	IHT000033	-0.0977	0.0976	0.0000	9.8648e-02	4.1000e+00
161	IHT000034	-0.0376	0.1577	0.0171	8.8585e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0715	8.3612e-02	4.1000e+00
163	IHT000036	-0.1878	0.0075	-0.0589	9.3461e-02	4.1000e+00

Velocity 1 = 6.0134 (ft/sec) (+/- 4.8862 %)
Velocity 2 = 5.8727 (ft/sec) (+/- 2.4088 %)
Pressure drop = -3.4281 (psi)
Tsats in = 216.3615 (deg F) Tsats out = 225.5930 (deg F)
Phi inner = 0.0043 (kBtu/hr-ft2) (+/- 135.4718 %)
Phi outer = 0.0070 (kBtu/hr-ft2) (+/- 127.5049 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	73.2671	74.1210	73.7638	1.7640e-01	1.9000e+00
1	TRF0000002	73.5362	74.1730	73.8395	1.2254e-01	1.9000e+00
2	TFM0000001	86.9195	87.8642	87.4399	1.7400e-01	1.9002e+00
3	TIM0000001	86.2173	86.9553	86.5811	1.6793e-01	1.9002e+00
4	TRV0000001	86.1790	87.3323	86.7998	2.1599e-01	1.9002e+00
5	TSR0000001	87.5837	88.2127	87.8855	1.5968e-01	1.9002e+00
6	TAO020136	81.1380	81.9845	81.5077	2.1387e-01	1.9001e+00
7	TAO050136	87.1243	87.7542	87.4329	1.3954e-01	1.9002e+00
8	TAO070136	86.9808	87.8242	87.4565	2.0872e-01	1.9002e+00
9	TAO080136	86.7180	87.3480	87.0352	1.6092e-01	1.9002e+00
10	TAO090136	87.2198	87.8508	87.5232	1.8122e-01	1.9002e+00
11	TAO100136	87.0308	87.5575	87.2872	1.2517e-01	1.9002e+00
12	TAO105136	87.2146	88.3715	87.9256	2.7534e-01	1.9002e+00
13	TAO110136	87.2401	87.9754	87.6284	1.7400e-01	1.9002e+00
14	TAO115136	86.9463	87.9985	87.5844	2.1511e-01	1.9002e+00
15	TAO120136	86.8533	87.5894	87.3084	1.9363e-01	1.9002e+00
16	TAO125136	87.1771	88.1222	87.7157	1.8891e-01	1.9002e+00
17	TAO130136	86.7666	87.6022	87.1882	1.8401e-01	1.9002e+00
18	TAO120048	76.9335	77.9936	77.5634	2.8385e-01	1.9000e+00
19	TAO130048	86.5556	87.2922	86.9915	1.6053e-01	1.9002e+00
20	TAO120224	86.6766	87.5182	87.1515	1.6375e-01	1.9002e+00
21	TAO130224	86.6239	87.6668	87.1876	2.3721e-01	1.9002e+00
22	TAO120312	86.7699	87.5062	87.1905	1.6079e-01	1.9002e+00
23	TAO130312	86.6929	87.2186	87.0405	1.4902e-01	1.9002e+00
24	TRT020000	87.2123	88.0548	87.6504	2.1644e-01	1.9002e+00
25	TRT070000	87.0815	87.7147	87.4629	1.7606e-01	1.9002e+00
26	TRT100000	87.4920	88.2284	87.8082	1.8917e-01	1.9002e+00
27	TRT120000	87.0463	87.7833	87.4697	1.6960e-01	1.9002e+00
28	TRT125000	75.8811	76.6212	76.2441	1.7279e-01	1.9000e+00
29	TRT130000	86.8997	87.5300	87.2730	1.3752e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.6010	2.0687e-01	1.9011e+00
31	TAF050136	87.1531	87.9930	87.5931	1.8381e-01	1.9002e+00
32	TAF070136	82.1120	83.0581	82.6443	2.0850e-01	1.9001e+00
33	TAF080136	86.9971	87.7299	87.4033	1.4158e-01	1.9002e+00
34	TAF090136	75.4359	76.4966	76.0836	2.4299e-01	1.9000e+00
35	TAF100136	86.9458	87.6835	87.3524	1.7988e-01	1.9002e+00
36	TAF105136	86.9638	87.9047	87.4549	2.5420e-01	1.9002e+00
37	TAF110136	86.7425	87.4790	87.1996	1.3137e-01	1.9002e+00
38	TAF115136	87.2912	88.1316	87.7968	2.0514e-01	1.9002e+00
39	TAF120136	87.1303	87.7598	87.4897	1.3568e-01	1.9002e+00
40	TAF125136	87.0793	88.1228	87.5371	2.4170e-01	1.9002e+00
41	TAF130136	87.0252	87.5525	87.3287	1.2088e-01	1.9002e+00
42	TAF120048	87.3663	88.2108	87.8340	2.1543e-01	1.9002e+00
43	TAF130048	87.0481	87.5754	87.3345	1.1777e-01	1.9002e+00
44	TAF120224	87.0463	87.9910	87.5422	1.9645e-01	1.9002e+00
45	TAF130224	86.6102	87.2430	86.9009	1.4030e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.3074	38.4572	38.1335	2.3895e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2027	1.1024e-01	1.9010e+00
48	TAI130048	87.1065	88.2611	87.7317	2.9701e-01	1.9002e+00
49	TAI130136	86.5757	87.5211	86.9860	2.1436e-01	1.9002e+00
50	TAI130224	87.3675	88.6308	88.0078	2.9444e-01	1.9002e+00
51	TAI130312	86.8809	87.8278	87.2694	2.1064e-01	1.9002e+00
52	TRR130000	85.6626	86.7103	86.2504	2.5750e-01	1.9002e+00
53	TSI000001	80.4443	81.0787	80.6935	1.5765e-01	1.9001e+00
54	TSI000002	75.9055	76.9636	76.3442	2.4988e-01	1.9000e+00
55	TSO000001	74.0448	74.8978	74.4020	2.1479e-01	1.9000e+00
56	TSO000002	82.2416	82.9807	82.6727	1.8009e-01	1.9001e+00
57	TAF020136	86.5416	87.0707	86.8220	1.5477e-01	1.9002e+00
58	TAF120312	86.6138	87.6645	87.1587	2.5695e-01	1.9002e+00
59	TAF130312	86.2498	86.9856	86.7304	1.7435e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.5013	2.3135e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5136	1.9103e-03	0.0000e+00
62	EMPTY	0.5225	0.5322	0.5274	1.2165e-03	0.0000e+00
63	EMPTY	0.5420	0.5469	0.5422	9.7615e-04	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3468	6.9754e-04	0.0000e+00
65	EMPTY	0.3662	0.3760	0.3711	1.4095e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3859	9.7615e-04	0.0000e+00
67	EMPTY	0.4053	0.4053	0.4053	0.0000e+00	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4204	1.4934e-03	0.0000e+00
69	EMPTY	0.4346	0.4492	0.4396	1.5727e-03	0.0000e+00
70	EMPTY	0.4492	0.4590	0.4541	9.9670e-04	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4786	6.9754e-04	0.0000e+00
72	EMPTY	0.4932	0.4932	0.4932	0.0000e+00	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5128	6.9754e-04	0.0000e+00
74	EMPTY	0.5273	0.5371	0.5295	2.6485e-03	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5470	6.9754e-04	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5616	6.9754e-04	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5821	1.9883e-03	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6056	6.9754e-04	0.0000e+00
79	EMPTY	0.6299	0.6299	0.6299	0.0000e+00	0.0000e+00
80	PAN020136	-11.5115	-11.2063	-11.3418	7.0107e-02	8.7046e-01
81	PAN050136	-22.8451	-22.3873	-22.6084	1.4957e-01	1.6810e+00
82	PAN070136	-16.1858	-15.8806	-16.0269	7.7613e-02	8.7092e-01
83	PAN080136	-8.1575	-7.8523	-8.0220	7.0107e-02	8.7023e-01
84	PAN090136	-8.2162	-7.9873	-8.1072	6.9647e-02	8.7024e-01
85	PAN100136	-7.9183	-7.6894	-7.7704	6.4977e-02	8.7022e-01
86	PAN105136	-3.5821	-3.2769	-3.4358	6.1975e-02	8.7004e-01
87	PAN110136	-3.2549	-3.1023	-3.1879	5.9573e-02	8.7004e-01
88	PAN115136	-3.4398	-3.1346	-3.2498	6.4442e-02	8.7004e-01
89	PAN120136	-2.8573	-2.7047	-2.8028	4.9248e-02	8.7003e-01
90	PAN125136	-4.3538	-4.1250	-4.2355	6.7992e-02	8.7006e-01
91	PAN130136	-4.5489	-4.3200	-4.3729	5.6590e-02	8.7007e-01
92	PAN120048	-9.5116	-9.2828	-9.3886	5.7887e-02	8.7032e-01
93	PAN130048	-7.0717	-6.8428	-6.9191	7.1366e-02	8.7017e-01
94	PAN120224	-6.7196	-6.4908	-6.6387	5.9114e-02	8.7016e-01
95	PAN130224	-7.7832	-7.5544	-7.6851	5.6151e-02	8.7021e-01
96	PAN120312	-8.5374	-8.2322	-8.3599	6.8572e-02	8.7025e-01
97	PAN130312	-7.3182	-7.0131	-7.1766	6.9547e-02	8.7018e-01
98	PAB000136	15.9666	16.1039	16.0283	3.6848e-02	5.8138e-01
99	PAB100136	18.4870	18.6701	18.5869	4.2486e-02	5.8186e-01
100	PAB125136	19.1683	19.2599	19.2150	3.9078e-02	5.8199e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	15.9108	16.0329	15.9906	5.8707e-02	7.5106e-01
102	PRV000001	19.2303	19.2303	19.2303	1.9271e-06	7.5154e-01
103	PSR000001	19.5470	19.6691	19.6591	3.3770e-02	7.5161e-01
104	PFM000001	5.3030	5.5776	5.4450	7.9422e-02	5.0019e-01
105	PAN000136	-95.6282	-94.7127	-94.9089	2.4722e-01	4.9257e+00
106	PFM000002	5.0504	5.2853	5.1894	5.4265e-02	2.0042e-01
107	EMPTY	-0.0049	0.0049	0.0029	2.8047e-03	0.0000e+00
108	EMPTY	-10.0000	-6.6162	-7.4758	7.1756e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0009	1.9103e-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	-1.0479	-0.4620	-0.7370	1.1906e-01	8.1001e-01
113	VPW000002	-0.8451	-0.6498	-0.7694	9.6150e-02	8.1001e-01
114	VPW000003	-0.7286	-0.3380	-0.6290	1.1362e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6519	1.0548e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.3131	1.3799e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4257	1.1960e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.3656	1.1737e+00	8.1003e+00
119	IPW000002	-12.2331	-6.3793	-9.2863	1.3283e+00	8.1003e+00
120	IPW000003	-12.8625	-8.9625	-11.0319	1.3444e+00	8.1005e+00
121	IPW000004	-2.2536	-1.7654	-1.8750	2.0584e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.4623	2.7899e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.1997	4.0524e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0200	3.0305e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.6332e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	2.6752e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0159	2.7793e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0073	7.4477e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0256	9.2715e-02	4.1000e+00
130	IHT000003	-0.2817	0.3042	-0.0186	1.1658e-01	4.1000e+00
131	IHT000004	-0.2028	0.3831	0.0204	1.1960e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0312	1.2761e-01	4.1000e+00
133	IHT000006	-0.2554	0.3305	0.0595	1.1838e-01	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0162	9.1482e-02	4.1000e+00
135	IHT000008	-0.1578	0.2329	-0.0581	1.2684e-01	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0064	9.1305e-02	4.1000e+00
137	IHT000010	-0.1427	0.0526	-0.0391	9.8483e-02	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0372	9.5132e-02	4.1000e+00
139	IHT000012	-0.3606	0.2254	-0.0855	1.1906e-01	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.1071	8.3122e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	0.0199	7.1817e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0090	8.8965e-02	4.1000e+00
143	IHT000016	-0.3305	0.2554	-0.0316	1.1348e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.1133	2.6690e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	-0.0094	1.0806e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2087	1.0548e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0603	8.4477e-02	4.1000e+00
148	IHT000021	-0.0714	0.1240	0.0243	9.8648e-02	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1154	9.7656e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1453	9.1305e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2857	8.4477e-02	4.1000e+00
152	IHT000025	0.2028	0.7888	0.2586	1.1276e-01	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0064	9.1305e-02	4.1000e+00
154	IHT000027	-0.2291	0.1615	-0.0099	8.5810e-02	4.1000e+00
155	IHT000028	-0.0526	0.3381	0.0351	1.0594e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.3080	0.0011	1.1276e-01	4.1000e+00
157	IHT000030	-0.0150	0.3756	0.0647	1.1219e-01	4.1000e+00
158	IHT000031	-0.1465	0.4394	-0.0030	1.3681e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	-0.0060	1.1348e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	0.0060	1.1348e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0176	8.2141e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0716	1.0911e-01	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0523	1.1419e-01	4.1000e+00

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Velocity 1 = 0.007400 (ft/sec)

Velocity 2 = 0.004200 (ft/sec)

Pressure Drop = 0.003100 (psi)

Tsat in = 0.139008 (deg F) Tsat out = 0.140305 (deg F)

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

#	Name	Abs Diff	%Diff
0	TRF000001	0.0612	0.0830
1	TRF000002	0.0109	0.0148
2	TFM000001	0.0588	0.0673
3	TIN000001	0.0116	0.0134
4	TRV000001	0.0376	0.0433
5	TSR000001	0.0627	0.0714
6	TAO020136	0.0519	0.0637
7	TAO050136	0.0231	0.0264
8	TAO070136	0.0201	0.0230
9	TAO080136	0.0192	0.0221
10	TAO090136	0.0252	0.0288
11	TAO100136	0.0158	0.0181
12	TAO105136	0.0710	0.0808
13	TAO110136	0.0060	0.0069
14	TAO115136	0.0823	0.0941
15	TAO120136	0.0243	0.0278
16	TAO125136	0.0047	0.0054
17	TAO130136	0.0068	0.0078
18	TAO120048	0.0275	0.0355
19	TAO130048	0.0068	0.0078
20	TAO120224	0.0327	0.0375
21	TAO130224	0.0237	0.0272
22	TAO120312	0.0464	0.0532
23	TAO130312	0.0365	0.0420
24	TRT020000	0.0299	0.0341
25	TRT070000	0.0224	0.0256
26	TRT100000	0.0338	0.0385
27	TRT120000	0.0024	0.0027
28	TRT125000	0.0093	0.0122
29	TRT130000	0.0077	0.0088
30	EMPTY	0.0230	0.0580
31	TAF050136	0.0321	0.0367
32	TAF070136	0.0319	0.0386
33	TAF080136	0.0168	0.0192
34	TAF090136	0.0830	0.1092
35	TAF100136	0.0103	0.0118
36	TAF105136	0.0351	0.0402
37	TAF110136	0.0700	0.0803
38	TAF115136	0.0187	0.0213
39	TAF120136	0.0116	0.0133
40	TAF125136	0.0884	0.1009
41	TAF130136	0.0335	0.0384
42	TAF120048	0.0115	0.0131
43	TAF130048	0.0164	0.0188
44	TAF120224	0.0373	0.0426
45	TAF130224	0.0206	0.0237

#	Name	Abs Diff	%Diff
46	EMPTY	0.0625	0.1642
47	EMPTY	0.0081	0.0207
48	TAI130048	0.0547	0.0624
49	TAI130136	0.0272	0.0313
50	TAI130224	0.1555	0.1764
51	TAI130312	0.0320	0.0367
52	TRR130000	0.0099	0.0115
53	TSI000001	0.0452	0.0560
54	TSI000002	0.0692	0.0906
55	TSO000001	0.0967	0.1301
56	TSO000002	0.0551	0.0667
57	TAF020136	0.0309	0.0356
58	TAF120312	0.0866	0.0995
59	TAF130312	0.0308	0.0355
60	EMPTY	0.0009	0.1799
61	EMPTY	0.0010	0.1943
62	EMPTY	0.0001	0.0189
63	EMPTY	0.0001	0.0184
64	EMPTY	0.0004	0.1152
65	EMPTY	0.0003	0.0809
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0001	0.0238
69	EMPTY	0.0001	0.0228
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0002	0.0418
72	EMPTY	0.0001	0.0203
73	EMPTY	0.0002	0.0390
74	EMPTY	0.0003	0.0567
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0002	0.0356
77	EMPTY	0.0003	0.0516
78	EMPTY	0.0000	0.0000
79	EMPTY	0.0000	0.0000
80	PAN020136	0.0064	0.0564
81	PAN050136	0.0014	0.0062
82	PAN070136	0.0258	0.1612
83	PAN080136	0.0195	0.2425
84	PAN090136	0.0131	0.1618
85	PAN100136	0.0258	0.3309
86	PAN105136	0.0536	1.5848
87	PAN110136	0.0960	2.9234
88	PAN115136	0.0038	0.1168
89	PAN120136	0.0035	0.1250
90	PAN125136	0.0007	0.0165
91	PAN130136	0.0097	0.2213
92	PAN120048	0.0067	0.0714
93	PAN130048	0.0091	0.1313
94	PAN120224	0.0031	0.0467
95	PAN130224	0.0148	0.1930
96	PAN120312	0.0341	0.4062
97	PAN130312	0.0003	0.0042
98	PAB000136	0.0454	0.2825
99	PAB100136	0.0548	0.2940
100	PAB125136	0.0513	0.2663

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0423	0.2638
102	PRV000001	0.0171	0.0890
103	PSR000001	0.0197	0.1001
104	PFM000001	0.0136	0.2491
105	PAN000136	0.0864	0.0911
106	PFM000002	0.0075	0.1447
107	EMPTY	0.0007	19.4444
108	EMPTY	0.1344	1.8307
109	EMPTY	0.0005	35.7143
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0179	2.3712
113	VPW000002	0.0093	1.1943
114	VPW000003	0.0097	1.5663
115	VPW000004	0.0463	7.6453
116	VPW000005	0.0672	5.3937
117	VPW000006	0.0123	0.8554
118	IPW000001	0.3196	3.2999
119	IPW000002	0.0581	0.6296
120	IPW000003	0.6264	6.0199
121	IPW000004	0.0315	1.7087
122	IPW000005	0.0188	0.5460
123	IPW000006	0.0024	0.1090
124	EMPTY	0.0002	0.9901
125	EMPTY	0.0002	1.4815
126	EMPTY	0.0002	1.2270
127	EMPTY	0.0001	0.6250
128	IHT000001	0.0352	82.8235
129	IHT000002	0.0002	0.7752
130	IHT000003	0.0025	15.5279
131	IHT000004	0.0162	385.7143
132	IHT000005	0.0004	1.2987
133	IHT000006	0.0054	8.3205
134	IHT000007	0.0108	200.0000
135	IHT000008	0.0136	30.5618
136	IHT000009	0.0153	171.9101
137	IHT000010	0.0060	13.3038
138	IHT000011	0.0025	7.2046
139	IHT000012	0.0374	77.7547
140	IHT000013	0.0033	3.1792
141	IHT000014	0.0043	27.5641
142	IHT000015	0.0148	255.1724
143	IHT000016	0.0214	209.8039
144	IHT000017	0.0219	16.1982
145	IHT000018	0.0280	150.5376
146	IHT000019	0.0240	10.3137
147	IHT000020	0.0118	24.3299
148	IHT000021	0.0098	28.7390
149	IHT000022	0.0023	2.0336
150	IHT000023	0.0200	12.0992
151	IHT000024	0.0314	12.3476
152	IHT000025	0.0106	3.9376
153	IHT000026	0.0160	71.4286
154	IHT000027	0.0113	807.1428
155	IHT000028	0.0056	18.9831

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0212	105.4726
157	IHT000030	0.0172	36.2105
158	IHT000031	0.0029	49.1525
159	IHT000032	0.0060	100.0000
160	IHT000033	0.0060	100.0000
161	IHT000034	0.0347	202.9240
162	IHT000035	0.0001	0.1399
163	IHT000036	0.0066	11.2054

Velocity 1 = 4.0131 (ft/sec) (+/- 10.6018 %)
Velocity 2 = 4.0259 (ft/sec) (+/- 4.1007 %)
Pressure drop = -4.4174 (psi)
Tsat in = 213.0673 (deg F) Tsat out = 225.3391 (deg F)
Phi inner = 0.0044 (kBtu/hr-ft2) (+/- 132.3914 %)
Phi outer = 0.0073 (kBtu/hr-ft2) (+/- 124.4868 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	73.2671	74.1210	73.7325	1.8645e-01	1.9000e+00
1	TRF0000002	73.7485	73.9608	73.8546	1.0720e-01	1.9000e+00
2	TFM0000001	87.0237	87.8647	87.4525	2.0877e-01	1.9002e+00
3	TIN0000001	86.5334	87.1656	86.8410	1.6728e-01	1.9002e+00
4	TRV0000001	86.2847	87.1231	86.7538	1.9443e-01	1.9002e+00
5	TSR0000001	87.2696	88.0037	87.6599	1.5450e-01	1.9002e+00
6	TAO020136	80.9266	81.9845	81.4347	2.5288e-01	1.9001e+00
7	TAO050136	87.0210	87.7548	87.3724	1.7186e-01	1.9002e+00
8	TAO070136	87.0859	87.8242	87.4153	1.7772e-01	1.9002e+00
9	TAO080136	86.7180	87.3486	86.9787	1.5757e-01	1.9002e+00
10	TAO090136	87.0119	87.7469	87.4228	1.9868e-01	1.9002e+00
11	TAO100136	86.9261	87.5581	87.2254	1.6368e-01	1.9002e+00
12	TAO105136	87.5299	88.2669	87.8883	1.9941e-01	1.9002e+00
13	TAO110136	87.1369	87.9754	87.5810	1.7397e-01	1.9002e+00
14	TAO115136	87.0519	87.8939	87.5106	2.1007e-01	1.9002e+00
15	TAO120136	86.8528	87.6950	87.2908	2.1701e-01	1.9002e+00
16	TAO125136	87.1787	88.0177	87.6483	2.0582e-01	1.9002e+00
17	TAO130136	86.8716	87.5009	87.1320	1.7052e-01	1.9002e+00
18	TAO120048	77.1458	77.9936	77.5106	2.6213e-01	1.9000e+00
19	TAO130048	86.6606	87.1867	86.8634	1.3913e-01	1.9002e+00
20	TAO120224	86.7816	87.4139	87.0559	1.4095e-01	1.9002e+00
21	TAO130224	86.7264	87.7724	87.1575	2.1782e-01	1.9002e+00
22	TAO120312	86.7693	87.4014	87.1021	1.5829e-01	1.9002e+00
23	TAO130312	86.6923	87.3242	86.9077	1.5173e-01	1.9002e+00
24	TRT020000	87.2112	88.0546	87.6121	2.1066e-01	1.9002e+00
25	TRT07C000	86.9759	87.8203	87.3982	1.7450e-01	1.9002e+00
26	TRT100000	87.1781	88.1229	87.6783	1.8321e-01	1.9002e+00
27	TRT120000	86.9415	87.7833	87.3793	1.6778e-01	1.9002e+00
28	TRT125000	75.7770	76.7253	76.3251	2.0016e-01	1.9000e+00
29	TRT130000	85.8997	87.5310	87.1983	1.6625e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6102	2.2477e-01	1.9011e+00
31	TAF050136	87.0495	87.9930	87.5403	2.0479e-01	1.9002e+00
32	TAF070136	82.0083	82.8485	82.4616	2.0533e-01	1.9001e+00
33	TAF080136	86.9965	87.7299	87.3450	1.9550e-01	1.9002e+00
34	TAF090136	75.5425	76.7082	76.0684	2.6032e-01	1.9000e+00
35	TAF100136	86.9464	87.5780	87.3127	1.7187e-01	1.9002e+00
36	TAF105136	86.8611	88.0102	87.4366	2.6536e-01	1.9002e+00
37	TAF110136	86.7445	87.5825	87.1549	1.6407e-01	1.9002e+00
38	TAF115136	87.2912	88.0261	87.7280	2.2670e-01	1.9002e+00
39	TAF120136	87.1292	88.1783	87.3821	1.8356e-01	1.9002e+00
40	TAF125136	86.9731	88.1228	87.5382	2.7185e-01	1.9002e+00
41	TAF130136	86.9207	87.5525	87.2995	1.3286e-01	1.9002e+00
42	TAF120048	87.3658	88.2108	87.7760	2.3526e-01	1.9002e+00
43	TAF130048	87.0490	87.5754	87.3056	1.2251e-01	1.9002e+00
44	TAF120224	87.2569	87.8870	87.4924	1.6769e-01	1.9002e+00
45	TAF130224	86.5048	87.1376	86.8845	1.2958e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1354	1.9151e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1786	1.0385e-01	1.9010e+00
48	TAI130048	87.1048	88.2611	87.6771	2.8556e-01	1.9002e+00
49	TAI130136	86.4719	87.3124	86.9338	1.9318e-01	1.9002e+00
50	TAI130224	87.3675	88.5255	87.9571	2.8135e-01	1.9002e+00
51	TAI130312	86.7753	87.6176	87.1837	2.1331e-01	1.9002e+00
52	TRR130000	85.7662	86.7103	86.2574	1.9582e-01	1.9002e+00
53	TSI000001	80.4454	81.0787	80.7411	1.6792e-01	1.9001e+00
54	TSI000002	75.9055	76.8588	76.4051	2.3318e-01	1.9000e+00
55	TSO000001	73.8320	74.6846	74.2967	1.9471e-01	1.9000e+00
56	TSO000002	82.3470	83.0856	82.7189	2.0028e-01	1.9001e+00
57	TAF020136	86.5414	87.0697	86.8037	1.4659e-01	1.9002e+00
58	TAF120312	86.6138	87.5596	87.0302	2.2549e-01	1.9002e+00
59	TAF130312	86.3549	86.9856	86.6410	1.5759e-01	1.9002e+00
60	EMPTY	0.4932	0.5029	0.4985	1.7784e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5130	1.1714e-03	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5259	2.2603e-03	0.0000e+00
63	EMPTY	0.5371	0.5420	0.5418	9.6655e-04	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3468	6.9053e-04	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3706	1.4797e-03	0.0000e+00
66	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4054	6.9053e-04	0.0000e+00
68	EMPTY	0.4199	0.4199	0.4199	0.0000e+00	0.0000e+00
69	EMPTY	0.4395	0.4395	0.4395	0.0000e+00	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4543	9.6655e-04	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4786	6.9053e-04	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4933	6.9053e-04	0.0000e+00
73	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5291	2.3675e-03	0.0000e+00
75	EMPTY	0.5469	0.5566	0.5472	1.5314e-03	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5616	6.9053e-04	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5823	2.1635e-03	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6056	6.9053e-04	0.0000e+00
79	EMPTY	0.6299	0.6299	0.6299	0.0000e+00	0.0000e+00
80	PAN020136	-14.7921	-14.4869	-14.6426	6.1578e-02	8.7077e-01
81	PAN050136	-29.5589	-29.1012	-29.2751	1.2335e-01	1.6816e+00
82	PAN070136	-20.1530	-19.8479	-19.9821	8.0918e-02	8.7143e-01
83	PAN080136	-10.0648	-9.8359	-9.9534	7.2641e-02	8.7036e-01
84	PAN090136	-10.1998	-9.8946	-10.0381	7.3341e-02	8.7036e-01
85	PAN100136	-10.0545	-9.7493	-9.9508	6.8517e-02	8.7036e-01
86	PAN105136	-4.8028	-4.5739	-4.6594	5.8976e-02	8.7008e-01
87	PAN110136	-4.7045	-4.5519	-4.6114	5.6191e-02	8.7008e-01
88	PAN115136	-4.8894	-4.5842	-4.7398	7.0567e-02	8.7008e-01
89	PAN120136	-4.3831	-4.1543	-4.2870	6.6850e-02	8.7007e-01
90	PAN125136	-5.3457	-5.1168	-5.2770	5.1699e-02	8.7010e-01
91	PAN130136	-5.3118	-5.0066	-5.1730	7.0111e-02	8.7010e-01
92	PAN120048	-11.1138	-10.8849	-11.0131	6.2497e-02	8.7044e-01
93	PAN130048	-9.5894	-9.3605	-9.4826	7.7069e-02	8.7032e-01
94	PAN120224	-9.3136	-9.0848	-9.2465	6.8309e-02	8.7031e-01
95	PAN130224	-9.9195	-9.6906	-9.8066	4.9324e-02	8.7035e-01
96	PAN120312	-10.2922	-10.0633	-10.1884	6.4957e-02	8.7037e-01
97	PAN130312	-9.6834	-9.3782	-9.5460	7.7069e-02	8.7033e-01
98	PAB000136	14.9137	15.0511	14.9714	3.9029e-02	5.8121e-01
99	PAB100136	18.2123	18.3039	18.2617	3.3139e-02	5.8179e-01
100	PAB125136	19.0768	19.2141	19.1225	4.0312e-02	5.8197e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	15.0563	15.0563	15.0563	7.7069e-06	7.5094e-01
102	PRV000001	18.9861	19.3524	19.2498	6.2195e-02	7.5154e-01
103	PSR000001	19.6691	19.7911	19.6813	3.6993e-02	7.5161e-01
104	PFM000001	2.2817	2.5564	2.3880	5.0180e-02	5.0004e-01
105	PAN000136	-122.6363	-122.1785	-122.2976	2.0283e-01	4.9295e+00
106	PFM000002	2.3488	2.4495	2.4036	2.1119e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	0.0014	3.8257e-03	0.0000e+00
108	EMPTY	-8.7207	-6.0938	-7.4315	3.6201e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0003	1.5314e-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	-1.0479	-0.6573	-0.7979	9.6976e-02	8.1001e-01
113	VPW000002	-0.8451	-0.6498	-0.7748	9.4702e-02	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6661	1.0014e-01	8.1001e-01
115	VPW000004	-0.6798	-0.2892	-0.5978	1.0507e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.2967	1.0907e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4263	1.0447e-01	8.1005e-01
118	IPW000001	-11.6766	-5.8195	-9.2947	1.2653e+00	8.1003e+00
119	IPW000002	-12.2331	-6.3793	-10.1258	1.2366e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-10.5225	1.1143e+00	8.1004e+00
121	IPW000004	-2.2536	-1.2771	-1.8728	2.4741e-01	2.0001e+00
122	IPW000005	-4.4786	-3.0139	-3.4826	3.4112e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2119	3.7291e-01	2.0001e+00
124	EMPTY	-0.0342	-0.0146	-0.0202	4.0685e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0126	2.8058e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0158	2.8862e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.2777e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0308	9.0412e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0298	6.7888e-02	4.1000e+00
130	IHT000003	-0.2817	0.1089	-0.0239	1.0014e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0231	9.5357e-02	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0347	1.0907e-01	4.1000e+00
133	IHT000006	-0.0601	0.1352	0.0297	9.8332e-02	4.1000e+00
134	IHT000007	-0.2554	0.3305	-0.0366	8.4997e-02	4.1000e+00
135	IHT000008	-0.1578	0.2329	-0.0523	1.0595e-01	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0185	7.8523e-02	4.1000e+00
137	IHT000010	-0.1427	0.2479	-0.0724	1.0259e-01	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0699	8.8233e-02	4.1000e+00
139	IHT000012	-0.3606	0.0301	-0.0520	1.0507e-01	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0999	8.8233e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	0.0078	6.7888e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0020	9.3043e-02	4.1000e+00
143	IHT000016	-0.1352	0.0601	-0.0219	9.7377e-02	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.0688	2.7155e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0421	9.0412e-02	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2444	7.8523e-02	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0564	8.8233e-02	4.1000e+00
148	IHT000021	-0.0714	0.1240	0.0458	9.6655e-02	4.1000e+00
149	IHT000022	0.0037	0.3944	0.1405	1.0625e-01	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1614	9.2456e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2504	8.2393e-02	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2536	8.6541e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0224	7.3716e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	0.0170	8.6541e-02	4.1000e+00
155	IHT000028	-0.0526	0.1427	0.0295	9.7377e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.1127	-0.0319	9.5112e-02	4.1000e+00
157	IHT000030	-0.0150	0.1803	0.0670	9.7377e-02	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0098	1.1334e-01	4.1000e+00
159	IHT000032	-0.0976	0.0977	-0.0039	9.8569e-02	4.1000e+00
160	IHT000033	-0.0977	0.0976	-0.0117	9.7935e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0063	9.1354e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0559	7.2866e-02	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0355	9.8963e-02	4.1000e+00

Velocity 1 = 4.0010 (ft/sec) (+/- 10.6657 %)
Velocity 2 = 4.0223 (ft/sec) (+/- 4.1069 %)
Pressure drop = -4.4151 (psi)
Tsat in = 213.1807 (deg F) Tsat out = 225.4033 (deg F)
Phi inner = 0.0045 (kBtu/hr-ft2) (+/- 131.4650 %)
Phi outer = 0.0072 (kBtu/hr-ft2) (+/- 125.7000 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.2671	74.1210	73.7463	2.0219e-01	1.9000e+00
1	TRF000002	73.5362	74.1730	73.8525	1.3086e-01	1.9000e+00
2	TFM000001	87.0237	87.7592	87.4035	1.7524e-01	1.9002e+00
3	TIN000001	86.6382	87.3759	86.8623	1.4518e-01	1.9002e+00
4	TRV000001	86.2853	87.1231	86.7293	2.1038e-01	1.9002e+00
5	TSR000001	87.2696	88.1092	87.6487	2.1499e-01	1.9002e+00
6	TAO020136	80.9265	81.8792	81.4451	2.3483e-01	1.9001e+00
7	TAO050136	87.0187	87.7548	87.3668	1.7949e-01	1.9002e+00
8	TAO070136	86.8755	87.8242	87.3941	2.1068e-01	1.9002e+00
9	TAO080136	86.6124	87.3486	86.9776	1.7293e-01	1.9002e+00
10	TAO090136	87.0119	87.9563	87.4697	2.1710e-01	1.9002e+00
11	TAO100136	86.9267	87.8717	87.2294	1.8657e-01	1.9002e+00
12	TAO105136	87.3202	88.3723	87.8977	2.3141e-01	1.9002e+00
13	TAO110136	87.2401	87.9754	87.6220	1.8240e-01	1.9002e+00
14	TAO115136	86.9463	88.1040	87.5479	2.5403e-01	1.9002e+00
15	TAO120136	86.9578	87.9049	87.3576	1.8587e-01	1.9002e+00
16	TAO125136	87.1771	88.1232	87.6366	1.9718e-01	1.9002e+00
17	TAO130136	86.6651	87.5009	87.1184	1.8542e-01	1.9002e+00
18	TAO120048	76.8282	78.0999	77.5396	3.3498e-01	1.9000e+00
19	TAO130048	86.5575	87.1867	86.8783	1.6402e-01	1.9002e+00
20	TAO120224	86.6766	87.4139	87.0679	1.7448e-01	1.9002e+00
21	TAO130224	86.7264	87.6668	87.1854	2.1829e-01	1.9002e+00
22	TAO120312	86.7693	87.5062	87.1239	1.8331e-01	1.9002e+00
23	TAO130312	86.5873	87.2186	86.9143	1.6383e-01	1.9002e+00
24	TRT020000	87.1062	88.0546	87.6095	2.1848e-01	1.9002e+00
25	TRT070000	86.9756	87.8203	87.4003	1.7290e-01	1.9002e+00
26	TRT100000	87.2843	88.2284	87.7034	2.2045e-01	1.9002e+00
27	TRT120000	87.1519	87.7833	87.4033	1.5600e-01	1.9002e+00
28	TRT175000	75.6705	76.6212	76.3407	2.0418e-01	1.9000e+00
29	TRT135000	86.7941	87.5310	87.1895	1.8524e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6150	2.2452e-01	1.9011e+00
31	TAF050136	87.1531	87.8894	87.5397	1.8850e-01	1.9002e+00
32	TAF070136	82.1120	82.8485	82.4667	1.9283e-01	1.9001e+00
33	TAF080136	86.9971	87.7299	87.3841	1.5480e-01	1.9002e+00
34	TAF090136	75.5425	76.6031	76.0425	2.8042e-01	1.9000e+00
35	TAF100136	86.9458	87.5780	87.3416	1.7000e-01	1.9002e+00
36	TAF105136	86.8582	87.8020	87.4315	2.1236e-01	1.9002e+00
37	TAF110136	86.8481	87.4790	87.1377	1.6401e-01	1.9002e+00
38	TAF115136	86.9778	88.1316	87.7048	2.2505e-01	1.9002e+00
39	TAF120136	87.0242	87.7604	87.3808	1.5290e-01	1.9002e+00
40	TAF125136	86.8681	88.0173	87.5136	2.4228e-01	1.9002e+00
41	TAF130136	87.0252	87.5525	87.3137	1.2684e-01	1.9002e+00
42	TAF120048	87.2608	88.1059	87.7153	1.8048e-01	1.9002e+00
43	TAF130048	86.9439	87.5754	87.3023	1.5767e-01	1.9002e+00
44	TAF120224	86.9423	87.8870	87.4631	2.0999e-01	1.9002e+00
45	TAF130224	86.6102	87.1376	86.8944	1.3300e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0678	1.9467e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1886	8.9840e-02	1.9010e+00
48	TAI130048	87.1054	88.2611	87.6438	3.1323e-01	1.9002e+00
49	TAI130136	86.3663	87.3124	86.8770	2.1640e-01	1.9002e+00
50	TAI130224	87.5780	88.6308	88.1517	2.6236e-01	1.9002e+00
51	TAI130312	86.7753	87.6176	87.2844	1.8898e-01	1.9002e+00
52	TRR130000	85.7662	86.7097	86.2354	2.2336e-01	1.9002e+00
53	TSI000001	80.2337	81.1848	80.7342	2.0086e-01	1.9001e+00
54	TSI000002	76.0109	76.9636	76.4282	2.3289e-01	1.9000e+00
55	TSO000001	73.9386	74.6846	74.3128	2.0186e-01	1.9000e+00
56	TSO000002	82.3466	83.0867	82.6921	2.0304e-01	1.9001e+00
57	TAF020136	86.2243	87.1766	86.7896	2.1516e-01	1.9002e+00
58	TAF120312	86.6138	87.6651	87.1051	2.4383e-01	1.9002e+00
59	TAF130312	86.2498	86.9856	86.6725	1.6137e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.4990	1.9883e-03	0.0000e+00
61	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5268	1.4934e-03	0.0000e+00
63	EMPTY	0.5420	0.5469	0.5421	6.9754e-04	0.0000e+00
64	EMPTY	0.3369	0.3467	0.3465	1.3951e-03	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3699	2.1215e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3860	1.1827e-03	0.0000e+00
67	EMPTY	0.4053	0.4053	0.4053	0.0000e+00	0.0000e+00
68	EMPTY	0.4150	0.4248	0.4199	9.9670e-04	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4394	6.9754e-04	0.0000e+00
70	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
71	EMPTY	0.4785	0.4785	0.4785	0.0000e+00	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4933	6.9754e-04	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5126	6.9754e-04	0.0000e+00
74	EMPTY	0.5225	0.5322	0.5297	2.6600e-03	0.0000e+00
75	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5618	1.1827e-03	0.0000e+00
77	EMPTY	0.5762	0.5859	0.5824	2.3953e-03	0.0000e+00
78	EMPTY	0.6006	0.6104	0.6057	1.3951e-03	0.0000e+00
79	EMPTY	0.6299	0.6348	0.6300	6.9754e-04	0.0000e+00
80	PAN020136	-14.7921	-14.4869	-14.6426	7.6229e-02	8.7077e-01
81	PAN050136	-29.5589	-29.1012	-29.2849	1.2451e-01	1.6816e+00
82	PAN070136	-20.1530	-19.8479	-19.9677	8.5299e-02	8.7143e-01
83	PAN080136	-10.0648	-9.8359	-9.9558	7.1366e-02	8.7036e-01
84	PAN090136	-10.1998	-9.8946	-10.0208	5.7328e-02	8.7036e-01
85	PAN100136	-10.0545	-9.8256	-9.9798	6.3240e-02	8.7036e-01
86	PAN105136	-4.8028	-4.5739	-4.6549	6.1131e-02	8.7008e-01
87	PAN110136	-4.7045	-4.4756	-4.5955	6.6073e-02	8.7008e-01
88	PAN115136	-4.8131	-4.5842	-4.7461	5.9573e-02	8.7008e-01
89	PAN120136	-4.3831	-4.1543	-4.2804	6.3357e-02	8.7007e-01
90	PAN125136	-5.3457	-5.1168	-5.2631	6.9362e-02	8.7010e-01
91	PAN130136	-5.3118	-5.0066	-5.1717	6.8500e-02	8.7010e-01
92	PAN120048	-11.1138	-10.8849	-11.0204	4.7404e-02	8.7044e-01
93	PAN130048	-9.5894	-9.3605	-9.4726	6.8065e-02	8.7032e-01
94	PAN120224	-9.3899	-9.0848	-9.2529	6.6035e-02	8.7031e-01
95	PAN130224	-9.9195	-9.6143	-9.7747	6.2769e-02	8.7034e-01
96	PAN120312	-10.2922	-9.9870	-10.1754	7.4853e-02	8.7037e-01
97	PAN130312	-9.6071	-9.4545	-9.5417	6.2294e-02	8.7033e-01
98	PAB000136	14.9595	15.0511	15.0072	3.4911e-02	5.8121e-01
99	PAB100136	18.2123	18.3496	18.2730	3.4189e-02	5.8180e-01
100	PAB125136	19.0768	19.2141	19.1459	4.2945e-02	5.8197e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	14.8122	15.0563	15.0514	3.4877e-02	7.5094e-01
102	PRV000001	19.2303	19.3524	19.2353	2.4404e-02	7.5154e-01
103	PSR000001	19.6691	19.7911	19.7015	5.4452e-02	7.5162e-01
104	PFM000001	2.2817	2.4649	2.3733	4.1788e-02	5.0004e-01
105	PAN000136	-122.6363	-122.1785	-122.2346	1.5161e-01	4.9295e+00
106	PFM000002	2.3656	2.4327	2.3992	1.8445e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	0.0005	4.0172e-03	0.0000e+00
108	EMPTY	-10.0000	-6.8164	-7.5253	5.8298e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0000	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	-0.8526	-0.6573	-0.7848	9.3931e-02	8.1001e-01
113	VPW000002	-0.8451	-0.4545	-0.7494	1.0640e-01	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6728	1.1276e-01	8.1001e-01
115	VPW000004	-0.8752	-0.2892	-0.6400	1.1262e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.3052	1.0044e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4137	1.0533e-01	8.1004e-01
118	IPW000001	-11.6766	-7.7719	-9.4453	1.0544e+00	8.1003e+00
119	IPW000002	-12.2331	-6.3793	-9.9633	1.1507e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-10.9125	1.1258e+00	8.1005e+00
121	IPW000004	-2.2536	-1.2771	-1.8351	2.6370e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.4423	3.2497e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.1898	3.2718e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0195	3.4527e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.5510e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0155	3.2562e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0049	-0.0142	4.0897e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0272	7.8092e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0495	7.3601e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0186	9.3931e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0035	8.4477e-02	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0431	1.0044e-01	4.1000e+00
133	IHT000006	-0.2554	0.1352	0.0395	1.0640e-01	4.1000e+00
134	IHT000007	-0.0601	0.3305	0.0117	1.0315e-01	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0661	9.8483e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0223	7.4477e-02	4.1000e+00
137	IHT000010	-0.1427	0.2479	-0.0630	1.1219e-01	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0372	9.5132e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0895	9.6150e-02	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0871	9.5812e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0239	9.4620e-02	4.1000e+00
142	IHT000015	-0.0488	0.1465	-0.0170	7.2937e-02	4.1000e+00
143	IHT000016	-0.1352	0.2554	-0.0316	1.0625e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.1213	2.5528e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	-0.0054	8.9148e-02	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2247	1.0851e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0364	9.1305e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0482	1.0409e-01	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1313	9.3931e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1613	8.4477e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2737	9.7323e-02	4.1000e+00
152	IHT000025	0.2028	0.7888	0.2905	1.2001e-01	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0223	6.2908e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	0.0100	8.2338e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	0.0112	1.0076e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.1127	-0.0268	8.9148e-02	4.1000e+00
157	IHT000030	-0.2103	0.1803	0.0448	9.9303e-02	4.1000e+00
158	IHT000031	-0.1465	0.2441	0.0010	1.0941e-01	4.1000e+00
159	IHT000032	-0.0976	0.0977	0.0020	9.8648e-02	4.1000e+00
160	IHT000033	-0.0977	0.2930	0.0179	1.0486e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0216	8.7680e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0756	6.8582e-02	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0443	1.0378e-01	4.1000e+00

Velocity 1 = 0.012100 (ft/sec)
 Velocity 2 = 0.003600 (ft/sec)
 Pressure Drop = 0.002300 (psi)
 Tsat in = 0.113388 (deg F) Tsat out = 0.064209 (deg F)
 Phi inner = 0.000100 (kBtu/hr-ft2) Phi outer = 0.000100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0138	0.0187
1	TRF000002	0.0021	0.0028
2	TFM000001	0.0490	0.0560
3	TIN000001	0.0213	0.0245
4	TRV000001	0.0245	0.0282
5	TSR000001	0.0112	0.0128
6	TAO020136	0.0104	0.0128
7	TAO050136	0.0056	0.0064
8	TAO070136	0.0212	0.0243
9	TAO080136	0.0011	0.0013
10	TAO090136	0.0469	0.0537
11	TAO100136	0.0040	0.0046
12	TAO105136	0.0094	0.0107
13	TAO110136	0.0410	0.0468
14	TAO115136	0.0373	0.0426
15	TAO120136	0.0668	0.0765
16	TAO125136	0.0117	0.0134
17	TAO130136	0.0136	0.0156
18	TAO120048	0.0290	0.0374
19	TAO130048	0.0149	0.0172
20	TAO120224	0.0120	0.0138
21	TAO130224	0.0279	0.0320
22	TAO120312	0.0218	0.0250
23	TAO130312	0.0066	0.0076
24	TRT020000	0.0026	0.0030
25	TRT070000	0.0021	0.0024
26	TRT100000	0.0251	0.0286
27	TRT120000	0.0240	0.0275
28	TRT125000	0.0156	0.0204
29	TRT130000	0.0088	0.0101
30	EMPTY	0.0048	0.0121
31	TAF050136	0.0006	0.0007
32	TAF070136	0.0051	0.0062
33	TAF080136	0.0391	0.0448
34	TAF090136	0.0259	0.0340
35	TAF100136	0.0289	0.0331
36	TAF105136	0.0051	0.0058
37	TAF110136	0.0172	0.0197
38	TAF115136	0.0232	0.0264
39	TAF120136	0.0013	0.0015
40	TAF125136	0.0246	0.0281
41	TAF130136	0.0142	0.0163
42	TAF120048	0.0607	0.0692
43	TAF130048	0.0033	0.0038
44	TAF120224	0.0293	0.0335
45	TAF130224	0.0099	0.0114

#	Name	Abs Diff	%Diff
46	EMPTY	0.0676	0.1773
47	EMPTY	0.0100	0.0255
48	TAI130048	0.0333	0.0380
49	TAI130136	0.0568	0.0653
50	TAI130224	0.1946	0.2212
51	TAI130312	0.1007	0.1155
52	TRR130000	0.0220	0.0255
53	TSI000001	0.0069	0.0085
54	TSI000002	0.0231	0.0302
55	TSO000001	0.0161	0.0217
56	TSO000002	0.0268	0.0324
57	TAF020136	0.0141	0.0163
58	TAF120312	0.0749	0.0861
59	TAF130312	0.0315	0.0364
60	EMPTY	0.0005	0.1003
61	EMPTY	0.0003	0.0585
62	EMPTY	0.0009	0.1711
63	EMPTY	0.0003	0.0554
64	EMPTY	0.0003	0.0865
65	EMPTY	0.0007	0.1889
66	EMPTY	0.0003	0.0778
67	EMPTY	0.0001	0.0247
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0001	0.0228
70	EMPTY	0.0002	0.0440
71	EMPTY	0.0001	0.0209
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0001	0.0195
74	EMPTY	0.0006	0.1134
75	EMPTY	0.0003	0.0548
76	EMPTY	0.0002	0.0356
77	EMPTY	0.0001	0.0172
78	EMPTY	0.0001	0.0165
79	EMPTY	0.0001	0.0159
80	PAN020136	0.0000	0.0000
81	PAN050136	0.0098	0.0335
82	PAN070136	0.0144	0.0721
83	PAN080136	0.0024	0.0241
84	PAN090136	0.0173	0.1723
85	PAN100136	0.0290	0.2914
86	PAN105136	0.0045	0.0966
87	PAN110136	0.0159	0.3448
88	PAN115136	0.0063	0.1329
89	PAN120136	0.0066	0.1540
90	PAN125136	0.0139	0.2634
91	PAN130136	0.0013	0.0251
92	PAN120048	0.0073	0.0663
93	PAN130048	0.0100	0.1055
94	PAN120224	0.0064	0.0692
95	PAN130224	0.0319	0.3253
96	PAN120312	0.0130	0.1276
97	PAN130312	0.0043	0.0450
98	PAB000136	0.0358	0.2391
99	PAB100136	0.0113	0.0619
100	PAB125136	0.0234	0.1224

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0049	0.0325
102	PRV000001	0.0145	0.0753
103	PSR000001	0.0202	0.1026
104	PFM000001	0.0147	0.6156
105	PAN000136	0.0630	0.0515
106	PFM000002	0.0044	0.1831
107	EMPTY	0.0009	64.2857
108	EMPTY	0.0938	1.2622
109	EMPTY	0.0003	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0131	1.6418
113	VPW000002	0.0254	3.2783
114	VPW000003	0.0067	1.0059
115	VPW000004	0.0422	7.0592
116	VPW000005	0.0085	0.6555
117	VPW000006	0.0126	0.8834
118	IPW000001	0.1506	1.6203
119	IPW000002	0.1625	1.6048
120	IPW000003	0.3900	3.7063
121	IPW000004	0.0377	2.0130
122	IPW000005	0.0403	1.1572
123	IPW000006	0.0221	0.9991
124	EMPTY	0.0007	3.4653
125	EMPTY	0.0004	3.1746
126	EMPTY	0.0003	1.8987
127	EMPTY	0.0018	11.2500
128	IHT000001	0.0036	11.6883
129	IHT000002	0.0197	66.1074
130	IHT000003	0.0053	22.1757
131	IHT000004	0.0196	84.8485
132	IHT000005	0.0084	24.2075
133	IHT000006	0.0098	32.9966
134	IHT000007	0.0483	131.9672
135	IHT000008	0.0138	26.3862
136	IHT000009	0.0038	20.5405
137	IHT000010	0.0094	12.9834
138	IHT000011	0.0327	46.7811
139	IHT000012	0.0375	72.1154
140	IHT000013	0.0128	12.8128
141	IHT000014	0.0317	406.4103
142	IHT000015	0.0150	750.0000
143	IHT000016	0.0097	44.2922
144	IHT000017	0.0525	76.3081
145	IHT000018	0.0475	112.8266
146	IHT000019	0.0197	8.0606
147	IHT000020	0.0200	35.4610
148	IHT000021	0.0024	5.2402
149	IHT000022	0.0092	6.5480
150	IHT000023	0.0001	0.0620
151	IHT000024	0.0233	9.3051
152	IHT000025	0.0369	14.5505
153	IHT000026	0.0001	0.4464
154	IHT000027	0.0070	41.1765
155	IHT000028	0.0183	62.0339

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0051	15.9875
157	IHT000030	0.0222	33.1343
158	IHT000031	0.0108	110.2041
159	IHT000032	0.0059	151.2821
160	IHT000033	0.0296	252.9914
161	IHT000034	0.0153	242.8571
162	IHT000035	0.0197	35.2415
163	IHT000036	0.0088	24.7887

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Velocity 1 = 2.9930 (ft/sec) (+/- 19.1915 %)
Velocity 2 = 2.9307 (ft/sec) (+/- 7.3796 %)
Pressure drop = -4.8427 (psi)
Tsat in = 211.6730 (deg F) Tsat out = 225.2661 (deg F)
Phi inner = 0.0044 (kBtu/hr-ft2) (+/- 133.9758 %)
Phi outer = 0.0069 (kBtu/hr-ft2) (+/- 128.7889 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.4806	74.1210	73.8136	1.9362e-01	1.9000e+00
1	TRF000002	73.7485	74.1730	73.8886	1.1025e-01	1.9000e+00
2	TFM000001	87.1293	87.9688	87.5639	2.0122e-01	1.9002e+00
3	TIN000001	86.7438	87.3759	87.0325	1.8154e-01	1.9002e+00
4	TRV000001	86.3884	87.2287	86.7899	2.0512e-01	1.9002e+00
5	TSR000001	87.2696	87.9003	87.6666	1.6043e-01	1.9002e+00
6	TAO020136	81.0326	81.8792	81.4200	2.2781e-01	1.9001e+00
7	TAO050136	87.1243	87.9635	87.4627	1.7388e-01	1.9002e+00
8	TAO070136	87.0864	87.9298	87.5186	1.9545e-01	1.9002e+00
9	TAO080136	86.7180	87.4517	87.1107	1.7833e-01	1.9002e+00
10	TAO090136	87.1159	87.8508	87.5341	1.6760e-01	1.9002e+00
11	TAO100136	86.9267	87.7677	87.3117	1.8712e-01	1.9002e+00
12	TAO105136	87.6360	88.7925	88.0124	2.0164e-01	1.9002e+00
13	TAO110136	87.3457	87.9754	87.6587	1.3803e-01	1.9002e+00
14	TAO115136	87.1574	88.2086	87.6180	2.2572e-01	1.9002e+00
15	TAO120136	86.9589	87.6950	87.4065	1.6836e-01	1.9002e+00
16	TAO125136	87.2827	88.1232	87.6926	2.0816e-01	1.9002e+00
17	TAO130136	86.8722	87.5009	87.2014	1.6094e-01	1.9002e+00
18	TAO120048	77.0399	78.3115	77.7118	3.4075e-01	1.9000e+00
19	TAO130048	86.6612	87.2922	86.9287	1.6342e-01	1.9002e+00
20	TAO120224	86.7822	87.4139	87.1716	1.5074e-01	1.9002e+00
21	TAO130224	86.8321	87.5644	87.1894	1.9121e-01	1.9002e+00
22	TAO120312	86.7693	87.4014	87.1927	1.4509e-01	1.9002e+00
23	TAO130312	86.6929	87.2192	86.9772	1.3817e-01	1.9002e+00
24	TRT020000	87.3173	88.1597	87.7111	1.9366e-01	1.9002e+00
25	TRT070000	87.0809	87.8203	87.5016	1.7897e-01	1.9002e+00
26	TRT100000	87.3882	88.2284	87.8273	2.0739e-01	1.9002e+00
27	TRT120000	87.1519	87.7833	87.5159	1.6619e-01	1.9002e+00
28	TRT125000	76.0918	76.9382	76.5805	1.8234e-01	1.9000e+00
29	TRT130000	86.8997	87.5310	87.2553	1.8128e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5643	2.3045e-01	1.9011e+00
31	TAF050136	87.2587	88.0985	87.6976	1.8918e-01	1.9002e+00
32	TAF070136	81.9023	82.9545	82.4349	2.2532e-01	1.9001e+00
33	TAF080136	86.9971	87.7299	87.4103	1.7516e-01	1.9002e+00
34	TAF090136	75.6485	76.8147	76.2148	3.0233e-01	1.9000e+00
35	TAF100136	87.0514	87.7891	87.4243	1.9175e-01	1.9002e+00
36	TAF105136	87.0694	88.1128	87.5435	2.4528e-01	1.9002e+00
37	TAF110136	86.9531	87.6880	87.2452	1.7139e-01	1.9002e+00
38	TAF115136	87.3968	88.3410	87.8435	2.0198e-01	1.9002e+00
39	TAF120136	87.1298	87.7604	87.5142	1.5248e-01	1.9002e+00
40	TAF125136	86.9737	88.2283	87.6701	2.9190e-01	1.9002e+00
41	TAF130136	86.9213	87.5525	87.3606	1.3400e-01	1.9002e+00
42	TAF120048	87.3663	88.3163	87.9174	2.1887e-01	1.9002e+00
43	TAF130048	87.1537	87.5754	87.3877	1.3335e-01	1.9002e+00
44	TAF120224	87.2569	87.9926	87.5996	1.8831e-01	1.9002e+00
45	TAF130224	86.7154	87.1376	86.9457	1.3077e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	2.0857e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1740	7.5380e-02	1.9010e+00
48	TAI130048	87.1054	88.2617	87.7172	3.1464e-01	1.9002e+00
49	TAI130136	86.4719	87.3124	86.9782	2.1806e-01	1.9002e+00
50	TAI130224	87.6835	88.7358	88.1950	2.6385e-01	1.9002e+00
51	TAI130312	86.8809	87.8278	87.3121	2.1702e-01	1.9002e+00
52	TRR130000	85.8719	86.7088	86.2850	2.0574e-01	1.9002e+00
53	TSI000001	80.3398	80.9743	80.7183	1.5987e-01	1.9001e+00
54	TSI000002	75.7995	76.8588	76.4371	2.2056e-01	1.9000e+00
55	TSO000001	73.9381	74.6846	74.3329	2.0685e-01	1.9000e+00
56	TSO000002	82.2416	83.1916	82.6958	2.0481e-01	1.9001e+00
57	TAF020136	86.4360	87.3868	86.9156	1.8260e-01	1.9002e+00
58	TAF120312	86.6138	87.6651	87.2047	2.8225e-01	1.9002e+00
59	TAF130312	86.4596	87.0912	86.7776	1.5102e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.4998	2.3675e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5135	1.8082e-03	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5271	1.1714e-03	0.0000e+00
63	EMPTY	0.5371	0.5469	0.5419	1.2041e-03	0.0000e+00
64	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3693	2.3675e-03	0.0000e+00
66	EMPTY	0.3760	0.3857	0.3855	1.3811e-03	0.0000e+00
67	EMPTY	0.4004	0.4053	0.4052	6.9053e-04	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4200	6.9053e-04	0.0000e+00
69	EMPTY	0.4346	0.4443	0.4390	1.7784e-03	0.0000e+00
70	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4783	9.6655e-04	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4928	1.3381e-03	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5126	6.9053e-04	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5272	6.9053e-04	0.0000e+00
75	EMPTY	0.5420	0.5518	0.5468	1.2041e-03	0.0000e+00
76	EMPTY	0.5566	0.5664	0.5614	1.2041e-03	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5812	6.9053e-04	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6053	9.6655e-04	0.0000e+00
79	EMPTY	0.6250	0.6348	0.6298	1.2041e-03	0.0000e+00
80	PAN020136	-16.3180	-16.0891	-16.1837	6.2724e-02	8.7094e-01
81	PAN050136	-32.3055	-31.8478	-32.1011	1.1783e-01	1.6819e+00
82	PAN070136	-21.9841	-21.6026	-21.7949	8.7519e-02	8.7170e-01
83	PAN080136	-10.9803	-10.6752	-10.8369	8.1036e-02	8.7042e-01
84	PAN090136	-10.8865	-10.6576	-10.7430	6.2876e-02	8.7041e-01
85	PAN100136	-11.0463	-10.7412	-10.9151	7.3986e-02	8.7043e-01
86	PAN105136	-5.2606	-5.0317	-5.1477	5.3926e-02	8.7610e-01
87	PAN110136	-5.3148	-5.0096	-5.1546	7.1054e-02	8.7010e-01
88	PAN115136	-5.4234	-5.1945	-5.2968	5.4735e-02	8.7010e-01
89	PAN120136	-5.0698	-4.9172	-4.9981	5.6444e-02	8.7009e-01
90	PAN125136	-5.8034	-5.5745	-5.6814	5.3395e-02	8.7012e-01
91	PAN130136	-5.5407	-5.3881	-5.4949	4.6241e-02	8.7011e-01
92	PAN120048	-11.8768	-11.6479	-11.7486	5.6508e-02	8.7050e-01
93	PAN130048	-10.6575	-10.3523	-10.5079	6.5322e-02	8.7040e-01
94	PAN120224	-10.4580	-10.2292	-10.3314	6.9976e-02	8.7038e-01
95	PAN130224	-10.9876	-10.6061	-10.7221	8.3348e-02	8.7041e-01
96	PAN120312	-11.0551	-10.7499	-10.9193	8.7587e-02	8.7043e-01
97	PAN130312	-10.6752	-10.5226	-10.5897	5.8976e-02	8.7040e-01
98	PAB000136	14.4560	14.5933	14.5356	3.9029e-02	5.8114e-01
99	PAB100136	18.0750	18.2123	18.1354	4.4775e-02	5.8177e-01
100	PAB125136	19.0310	19.1683	19.0960	3.8232e-02	5.8196e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	14.3239	14.4460	14.4435	1.7263e-02	7.5087e-01
102	PRV000001	19.2303	19.2303	19.2303	1.9267e-06	7.5154e-01
103	PSR000001	19.6691	19.6691	19.6691	0.0000e+00	7.5161e-01
104	PFM000001	1.1831	1.4578	1.3076	8.0113e-02	5.0001e-01
105	PAN000136	-134.0804	-133.6226	-134.0713	6.4738e-02	4.9314e+00
106	PFM000002	1.2246	1.2749	1.2521	1.2575e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	0.0000	4.0673e-03	0.0000e+00
108	EMPTY	-10.0000	-5.2979	-7.9174	1.0147e+00	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	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-1.0479	-0.4620	-0.7276	1.1679e-01	8.1001e-01
113	VPW000002	-1.0404	-0.6498	-0.7709	1.0358e-01	8.1001e-01
114	VPW000003	-0.7286	-0.5333	-0.6505	9.6655e-02	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6369	1.0654e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.2616	1.2104e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4341	1.2633e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.3337	1.1833e+00	8.1003e+00
119	IPW000002	-12.2331	-6.3793	-9.3843	1.5374e+00	8.1003e+00
120	IPW000003	-12.8625	-8.9625	-10.9125	1.1819e+00	8.1005e+00
121	IPW000004	-2.2536	-1.2771	-1.8826	2.5266e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.4142	3.2250e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.1533	3.3613e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0195	3.5568e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.7971e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0164	2.7480e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.7239e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0113	6.8345e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0376	6.8345e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0044	9.7377e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	0.0120	9.0412e-02	4.1000e+00
132	IHT000005	-0.2066	0.3794	-0.0191	1.3063e-01	4.1000e+00
133	IHT000006	-0.2554	0.1352	0.0610	1.0358e-01	4.1000e+00
134	IHT000007	-0.2554	0.3305	0.0024	1.0763e-01	4.1000e+00
135	IHT000008	-0.1578	0.2329	-0.0718	1.0559e-01	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0068	9.8648e-02	4.1000e+00
137	IHT000010	-0.1427	0.2479	-0.0646	1.0440e-01	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0542	9.6976e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0676	9.8648e-02	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0882	9.5112e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	0.0039	9.2456e-02	4.1000e+00
142	IHT000015	-0.0488	0.1465	-0.0059	8.1729e-02	4.1000e+00
143	IHT000016	-0.3305	0.2554	-0.0063	1.0885e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.1430	2.7960e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0421	1.0625e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2132	1.0168e-01	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0564	8.8233e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0380	1.0559e-01	4.1000e+00
149	IHT000022	0.0037	0.3944	0.1287	1.0259e-01	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1614	1.0052e-01	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2622	1.0625e-01	4.1000e+00
152	IHT000025	0.0075	0.3981	0.2419	8.8233e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0185	9.6332e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	0.0092	8.1729e-02	4.1000e+00
155	IHT000028	-0.2479	0.1427	0.0138	1.1578e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.1127	-0.0162	9.3461e-02	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0397	1.0470e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0059	1.1189e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	0.0195	1.0440e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	0.0000	1.0625e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0102	9.6735e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0676	6.8345e-02	4.1000e+00
163	IHT000036	-0.1878	0.0075	-0.0394	8.4262e-02	4.1000e+00

Velocity 1 = 2.9979 (ft/sec) (+/- 19.1275 %)
Velocity 2 = 2.9368 (ft/sec) (+/- 7.3498 %)
Pressure drop = -4.8426 (psi)
Tsats in = 211.5698 (deg F) Tsats out = 225.1951 (deg F)
Phi inner = 0.0044 (kBtu/hr-ft2) (+/- 132.7434 %)
Phi outer = 0.0069 (kBtu/hr-ft2) (+/- 128.0351 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.4806	74.1210	73.7943	1.5771e-01	1.9000e+00
1	TRF000002	73.7485	74.1730	73.8698	1.1463e-01	1.9000e+00
2	TFM000001	87.1293	87.8647	87.5342	1.7405e-01	1.9002e+00
3	TIN000001	86.5337	87.3759	86.9718	1.6824e-01	1.9002e+00
4	TRV000001	86.4940	87.2287	86.8513	1.7106e-01	1.9002e+00
5	TSR000001	87.3746	88.1092	87.6511	1.3994e-01	1.9002e+00
6	TAO020136	80.9272	81.8792	81.4386	2.4364e-01	1.9001e+00
7	TAO050136	87.1243	87.9635	87.4375	1.6638e-01	1.9002e+00
8	TAO070136	87.0861	87.9298	87.5081	2.0414e-01	1.9002e+00
9	TAO080136	86.7180	87.3486	87.0440	1.5172e-01	1.9002e+00
10	TAO090136	87.2214	87.9563	87.5746	1.9472e-01	1.9002e+00
11	TAO100136	87.0317	87.7677	87.3430	1.6331e-01	1.9002e+00
12	TAO105136	87.6354	88.2669	87.9300	1.7563e-01	1.9002e+00
13	TAO110136	87.3457	87.9754	87.6585	1.4874e-01	1.9002e+00
14	TAO115136	87.0519	87.8939	87.5930	1.9194e-01	1.9002e+00
15	TAO120136	87.0634	87.6950	87.3942	1.7426e-01	1.9002e+00
16	TAO125136	87.3877	88.0177	87.7030	1.9859e-01	1.9002e+00
17	TAO130136	86.7701	87.5009	87.1803	1.6827e-01	1.9002e+00
18	TAO120048	77.0399	78.2051	77.5851	2.8673e-01	1.9000e+00
19	TAO130048	86.6612	87.2922	86.9362	1.4034e-01	1.9002e+00
20	TAO120224	86.8878	87.4139	87.1687	1.2773e-01	1.9002e+00
21	TAO130224	86.7264	87.7724	87.2219	2.2207e-01	1.9002e+00
22	TAO120312	86.8743	87.6118	87.1648	1.6992e-01	1.9002e+00
23	TAO130312	86.7979	87.3242	86.9594	1.2713e-01	1.9002e+00
24	TRT020000	87.1066	88.1597	87.7106	2.2006e-01	1.9002e+00
25	TRT070000	87.0815	87.8203	87.4973	1.6746e-01	1.9002e+00
26	TRT100000	87.2837	88.2284	87.7998	2.0950e-01	1.9002e+00
27	TRT120000	87.1519	87.6777	87.4612	1.4615e-01	1.9002e+00
28	TRT125000	76.1983	76.9382	76.5322	1.8446e-01	1.9000e+00
29	TRT130000	86.7957	87.5310	87.2303	1.6331e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6338	2.0762e-01	1.9011e+00
31	TAF050136	87.3643	87.9930	87.6488	1.4195e-01	1.9002e+00
32	TAF070136	82.0083	82.8485	82.4135	1.8949e-01	1.9001e+00
33	TAF080136	87.1021	87.7299	87.4036	1.5655e-01	1.9002e+00
34	TAF090136	75.7543	76.8147	76.2046	2.6339e-01	1.9000e+00
35	TAF100136	87.1564	87.6836	87.3868	1.5745e-01	1.9002e+00
36	TAF105136	87.0694	87.8020	87.5402	2.1742e-01	1.9002e+00
37	TAF110136	86.8481	87.4790	87.1913	1.3327e-01	1.9002e+00
38	TAF115136	87.3968	88.1316	87.8098	1.7959e-01	1.9002e+00
39	TAF120136	87.1298	87.9694	87.4984	1.6046e-01	1.9002e+00
40	TAF125136	87.0793	88.1228	87.6521	2.8408e-01	1.9002e+00
41	TAF130136	87.1308	87.5525	87.3459	1.0077e-01	1.9002e+00
42	TAF120048	87.3663	88.3163	87.8295	2.1208e-01	1.9002e+00
43	TAF130048	87.0495	87.5754	87.3645	1.1369e-01	1.9002e+00
44	TAF120224	87.0479	87.8870	87.5252	1.7278e-01	1.9002e+00
45	TAF130224	86.6104	87.1376	86.9310	1.1375e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1053	2.0512e-01	1.9010e+00
47	EMPTY	38.6870	39.3761	39.1746	1.5989e-01	1.9010e+00
48	TAI130048	87.2103	88.3665	87.7361	2.9244e-01	1.9002e+00
49	TAI130136	86.6813	87.2068	86.9478	1.5886e-01	1.9002e+00
50	TAI130224	87.4730	88.8412	88.2226	3.0652e-01	1.9002e+00
51	TAI130312	86.8809	87.6176	87.3510	1.9334e-01	1.9002e+00
52	TRR130000	85.8719	86.6053	86.2549	1.9309e-01	1.9002e+00
53	TSI000001	80.4454	80.9743	80.6593	1.5615e-01	1.9001e+00
54	TSI000002	76.0120	77.0700	76.4392	2.5903e-01	1.9000e+00
55	TSO000001	73.9387	74.6846	74.3149	1.7814e-01	1.9000e+00
56	TSO000002	82.2416	82.9807	82.6771	1.9707e-01	1.9001e+00
57	TAF020136	86.4360	87.1763	86.8262	1.9316e-01	1.9002e+00
58	TAF120312	86.7189	87.6651	87.1502	2.5734e-01	1.9002e+00
59	TAF130312	86.3554	87.0912	86.7476	1.4984e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.4998	2.3783e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5129	9.7615e-04	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5271	9.7615e-04	0.0000e+00
63	EMPTY	0.5371	0.5469	0.5422	1.3951e-03	0.0000e+00
64	EMPTY	0.3418	0.3516	0.3467	9.9670e-04	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3695	2.3135e-03	0.0000e+00
66	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
67	EMPTY	0.4053	0.4053	0.4053	0.0000e+00	0.0000e+00
68	EMPTY	0.4150	0.4199	0.4198	6.9754e-04	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4393	9.7615e-04	0.0000e+00
70	EMPTY	0.4492	0.4590	0.4541	1.4095e-03	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4784	6.9754e-04	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4928	1.3508e-03	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5126	6.9754e-04	0.0000e+00
74	EMPTY	0.5225	0.5322	0.5273	9.9670e-04	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5471	9.7615e-04	0.0000e+00
76	EMPTY	0.5615	0.5615	0.5615	0.0000e+00	0.0000e+00
77	EMPTY	0.5762	0.5859	0.5812	1.2165e-03	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6052	1.1827e-03	0.0000e+00
79	EMPTY	0.6250	0.6348	0.6298	1.2165e-03	0.0000e+00
80	PAN020136	-16.3180	-16.0128	-16.1763	6.7883e-02	8.7094e-01
81	PAN050136	-32.3055	-31.8478	-32.0751	1.1705e-01	1.6819e+00
82	PAN070136	-21.9078	-21.6026	-21.7614	8.7872e-02	8.7170e-01
83	PAN080136	-10.9803	-10.6752	-10.8495	9.3441e-02	8.7042e-01
84	PAN090136	-10.8865	-10.6576	-10.7339	6.0316e-02	8.7041e-01
85	PAN100136	-11.0463	-10.8175	-10.9358	4.6879e-02	8.7043e-01
86	PAN105136	-5.2606	-5.0317	-5.1594	5.9072e-02	8.7010e-01
87	PAN110136	-5.3148	-5.0096	-5.1544	7.8248e-02	8.7010e-01
88	PAN115136	-5.4234	-5.1945	-5.2895	5.7285e-02	8.7010e-01
89	PAN120136	-5.1461	-4.9172	-5.0075	6.3591e-02	8.7009e-01
90	PAN125136	-5.8797	-5.5745	-5.7085	6.3318e-02	8.7012e-01
91	PAN130136	-5.5407	-5.3881	-5.4956	4.3823e-02	8.7011e-01
92	PAN120048	-11.8768	-11.5716	-11.7569	5.6151e-02	8.7050e-01
93	PAN130048	-10.5812	-10.2760	-10.4955	7.2433e-02	8.7040e-01
94	PAN120224	-10.4580	-10.2292	-10.3397	6.2413e-02	8.7038e-01
95	PAN130224	-10.8350	-10.6061	-10.7494	7.4089e-02	8.7041e-01
96	PAN120312	-11.0551	-10.8262	-10.9150	7.0248e-02	8.7043e-01
97	PAN130312	-10.6752	-10.4463	-10.5864	6.2965e-02	8.7040e-01
98	PAB000136	14.4560	14.5475	14.5036	3.7329e-02	5.8113e-01
99	PAB100136	18.0292	18.1665	18.0983	4.0861e-02	5.8176e-01
100	PAB125136	18.9852	19.2141	19.0702	4.6720e-02	5.8196e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	14.3239	14.4460	14.4410	2.4404e-02	7.5087e-01
102	PRV000001	19.2303	19.3524	19.2477	4.3158e-02	7.5154e-01
103	PSR000001	19.5470	19.6691	19.6641	2.4404e-02	7.5161e-01
104	PFM000001	1.0916	1.4578	1.3120	7.6868e-02	5.0001e-01
105	PAN000136	-134.0804	-133.6226	-134.0711	6.5395e-02	4.9314e+00
106	PFM000002	1.2414	1.2917	1.2575	1.1845e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	0.0002	3.5880e-03	0.0000e+00
108	EMPTY	-10.0000	-7.1631	-8.1159	9.7413e-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	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.8526	-0.6573	-0.7569	9.8648e-02	8.1001e-01
113	VPW000002	-0.8451	-0.6498	-0.7534	9.8483e-02	8.1001e-01
114	VPW000003	-0.9240	-0.3380	-0.6529	1.1838e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6161	1.1546e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.2533	1.2122e-01	8.1003e-01
117	VPW000006	-1.6489	-1.2583	-1.4695	1.1161e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.6445	1.0513e+00	8.1004e+00
119	IPW000002	-12.2331	-6.3793	-9.2863	1.3283e+00	8.1003e+00
120	IPW000003	-12.8625	-8.9625	-10.6738	1.2354e+00	8.1004e+00
121	IPW000004	-2.2536	-1.2771	-1.8451	2.0781e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.4623	2.6058e-01	2.0002e+00
123	IPW000006	-2.8076	-1.3427	-2.2197	3.5908e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0195	2.9901e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0129	2.7646e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	2.6752e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0157	3.0339e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0392	7.9736e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0535	6.7148e-02	4.1000e+00
130	IHT000003	-0.2817	0.1089	-0.0386	1.0188e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	0.0045	1.1560e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0392	1.1276e-01	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0435	1.1348e-01	4.1000e+00
134	IHT000007	-0.4507	0.1352	-0.0282	1.0806e-01	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0780	9.6990e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0223	9.3412e-02	4.1000e+00
137	IHT000010	-0.1427	0.0526	-0.0590	9.7656e-02	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0451	9.2540e-02	4.1000e+00
139	IHT000012	-0.3606	0.0301	-0.0895	1.1146e-01	4.1000e+00
140	IHT000013	-0.2517	0.3343	0.0752	1.0836e-01	4.1000e+00
141	IHT000014	-0.1953	0.1953	0.0080	9.7323e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0130	8.6187e-02	4.1000e+00
143	IHT000016	-0.1352	0.2554	-0.0276	1.0594e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.1332	3.1925e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0345	9.2715e-02	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2326	6.2908e-02	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0524	6.2908e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0442	1.0486e-01	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1114	9.8153e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1732	6.8582e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2578	7.5986e-02	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2706	9.3931e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0143	8.3705e-02	4.1000e+00
154	IHT000027	-0.2291	0.1615	0.0100	9.1482e-02	4.1000e+00
155	IHT000028	-0.2479	0.3381	0.0032	1.1276e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.3080	-0.0069	1.0409e-01	4.1000e+00
157	IHT000030	-0.2103	0.1803	0.0288	1.0746e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0030	1.2465e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	0.0020	1.0640e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	-0.0020	1.0640e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	0.0063	9.1482e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0636	6.2908e-02	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0443	1.1117e-01	4.1000e+00

Velocity 1 = 0.004900 (ft/sec)

Velocity 2 = 0.006100 (ft/sec)

Pressure Drop = 0.000100 (psi)

Tsat in = 0.103210 (deg F) Tsat out = 0.070999 (deg F)

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

#	Name	Abs Diff	%Diff
0	TRF000001	0.0193	0.0262
1	TRF000002	0.0188	0.0255
2	TFM000001	0.0297	0.0339
3	TIN000001	0.0607	0.0697
4	TRV000001	0.0614	0.0707
5	TSR000001	0.0155	0.0177
6	TAO020136	0.0186	0.0228
7	TAO050136	0.0252	0.0288
8	TAO070136	0.0105	0.0120
9	TAO080136	0.0667	0.0766
10	TAO090136	0.0405	0.0463
11	TAO100136	0.0313	0.0359
12	TAO105136	0.0824	0.0936
13	TAO110136	0.0002	0.0002
14	TAO115136	0.0250	0.0285
15	TAO120136	0.0123	0.0141
16	TAO125136	0.0104	0.0119
17	TAO130136	0.0211	0.0242
18	TAO120048	0.1267	0.1630
19	TAO130048	0.0075	0.0086
20	TAO120224	0.0029	0.0033
21	TAO130224	0.0325	0.0373
22	TAO120312	0.0279	0.0320
23	TAO130312	0.0178	0.0205
24	TRT020000	0.0005	0.0006
25	TRT070000	0.0043	0.0049
26	TRT100000	0.0275	0.0313
27	TRT120000	0.0547	0.0625
28	TRT125000	0.0483	0.0631
29	TRT130000	0.0250	0.0287
30	EMPTY	0.0695	0.1757
31	TAF050136	0.0488	0.0556
32	TAF070136	0.0214	0.0260
33	TAF080136	0.0067	0.0077
34	TAF090136	0.0102	0.0134
35	TAF100136	0.0375	0.0429
36	TAF105136	0.0033	0.0038
37	TAF110136	0.0539	0.0618
38	TAF115136	0.0337	0.0384
39	TAF120136	0.0158	0.0181
40	TAF125136	0.0180	0.0205
41	TAF130136	0.0147	0.0168
42	TAF120048	0.0879	0.1000
43	TAF130048	0.0232	0.0265
44	TAF120224	0.0744	0.0849
45	TAF130224	0.0147	0.0169

#	Name	Abs Diff	%Diff
46	EMPTY	0.0067	0.0176
47	EMPTY	0.0006	0.0015
48	TAI130048	0.0189	0.0215
49	TAI130136	0.0304	0.0350
50	TAI130224	0.0276	0.0313
51	TAI130312	0.0389	0.0445
52	TRR130000	0.0301	0.0349
53	TSI000001	0.0590	0.0731
54	TSI000002	0.0021	0.0027
55	TSO000001	0.0180	0.0242
56	TSO000002	0.0187	0.0226
57	TAF020136	0.0894	0.1029
58	TAF120312	0.0545	0.0625
59	TAF130312	0.0300	0.0346
60	EMPTY	0.0000	0.0000
61	EMPTY	0.0006	0.1168
62	EMPTY	0.0000	0.0000
63	EMPTY	0.0003	0.0554
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0002	0.0542
66	EMPTY	0.0002	0.0519
67	EMPTY	0.0001	0.0247
68	EMPTY	0.0002	0.0476
69	EMPTY	0.0003	0.0683
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0001	0.0209
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0001	0.0190
75	EMPTY	0.0003	0.0549
76	EMPTY	0.0001	0.0178
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0001	0.0165
79	EMPTY	0.0000	0.0000
80	PAN020136	0.0074	0.0457
81	PAN050136	0.0260	0.0810
82	PAN070136	0.0335	0.1537
83	PAN080136	0.0126	0.1163
84	PAN090136	0.0091	0.0847
85	PAN100136	0.0207	0.1896
86	PAN105136	0.0117	0.2273
87	PAN110136	0.0002	0.0039
88	PAN115136	0.0073	0.1378
89	PAN120136	0.0094	0.1881
90	PAN125136	0.0271	0.4770
91	PAN130136	0.0007	0.0127
92	PAN120048	0.0083	0.0706
93	PAN130048	0.0124	0.1180
94	PAN120224	0.0083	0.0803
95	PAN130224	0.0273	0.2546
96	PAN120312	0.0043	0.0394
97	PAN130312	0.0033	0.0312
98	PAB000136	0.0320	0.2201
99	PAB100136	0.0371	0.2046
100	PAB125136	0.0258	0.1351

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0025	0.0173
102	PRV000001	0.0174	0.0905
103	PSR000001	0.0050	0.0254
104	PFM000001	0.0044	0.3365
105	PAN000136	0.0002	0.0001
106	PFM000002	0.0054	0.4313
107	EMPTY	0.0002	100.0000
108	EMPTY	0.1985	2.5071
109	EMPTY	0.0001	33.3333
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0293	4.0269
113	VPW000002	0.0175	2.2701
114	VPW000003	0.0024	0.3689
115	VPW000004	0.0208	3.2658
116	VPW000005	0.0083	0.6579
117	VPW000006	0.0354	2.4684
118	IPW000001	0.3108	3.3299
119	IPW000002	0.0980	1.0443
120	IPW000003	0.2387	2.1874
121	IPW000004	0.0375	1.9919
122	IPW000005	0.0481	1.4088
123	IPW000006	0.0664	3.0836
124	EMPTY	0.0000	0.0000
125	EMPTY	0.0004	3.0075
126	EMPTY	0.0003	1.8293
127	EMPTY	0.0004	2.4845
128	IHT000001	0.0279	246.9026
129	IHT000002	0.0159	42.2872
130	IHT000003	0.0342	777.2728
131	IHT000004	0.0075	62.5000
132	IHT000005	0.0201	105.2356
133	IHT000006	0.0175	28.6885
134	IHT000007	0.0306	1274.9999
135	IHT000008	0.0062	8.6351
136	IHT000009	0.0155	227.9412
137	IHT000010	0.0056	8.6687
138	IHT000011	0.0091	16.7897
139	IHT000012	0.0219	32.3965
140	IHT000013	0.0130	14.7392
141	IHT000014	0.0041	105.1282
142	IHT000015	0.0071	120.3390
143	IHT000016	0.0213	338.0952
144	IHT000017	0.0098	6.8531
145	IHT000018	0.0076	18.0523
146	IHT000019	0.0194	9.0994
147	IHT000020	0.0040	7.0922
148	IHT000021	0.0062	16.3158
149	IHT000022	0.0173	13.4421
150	IHT000023	0.0118	7.3110
151	IHT000024	0.0044	1.6781
152	IHT000025	0.0287	11.8644
153	IHT000026	0.0042	22.7027
154	IHT000027	0.0008	8.6956
155	IHT000028	0.0106	76.8116

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0093	57.4074
157	IHT000030	0.0109	27.4559
158	IHT000031	0.0029	49.1525
159	IHT000032	0.0175	89.7436
160	IHT000033	0.0020	100.0000
161	IHT000034	0.0165	161.7647
162	IHT000035	0.0040	5.9172
163	IHT000036	0.0049	12.4366

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Velocity 1 = 2.0391 (ft/sec) (+/- 42.4162 %)
Velocity 2 = 1.9852 (ft/sec) (+/- 16.2219 %)
Pressure drop = -5.1310 (psi)
Tsat in = 210.7803 (deg F) Tsat out = 225.2509 (deg F)
Phi inner = 0.0045 (kBtu/hr-ft2) (+/- 131.8780 %)
Phi outer = 0.0073 (kBtu/hr-ft2) (+/- 124.4710 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.4806	74.1210	73.8222	1.6135e-01	1.9000e+00
1	TRF000002	73.5362	74.1730	73.9268	1.4453e-01	1.9000e+00
2	TFM000001	87.2349	88.1784	87.7212	2.2216e-01	1.9002e+00
3	TIN000001	86.9541	87.3759	87.1482	1.2286e-01	1.9002e+00
4	TRV000001	86.4940	87.4372	86.9804	2.0600e-01	1.9002e+00
5	TSR000001	87.3746	88.0052	87.6730	1.6050e-01	1.9002e+00
6	TAO020136	80.9266	81.9846	81.5447	2.0083e-01	1.9001e+00
7	TAO050136	87.2293	88.0684	87.5902	1.8606e-01	1.9002e+00
8	TAO070136	87.1920	87.9292	87.6050	1.8413e-01	1.9002e+00
9	TAO080136	86.9268	87.6622	87.2424	1.7850e-01	1.9002e+00
10	TAO090136	87.2214	88.0612	87.6913	2.0245e-01	1.9002e+00
11	TAO100136	87.0317	87.7677	87.4480	1.6842e-01	1.9002e+00
12	TAO105136	87.5305	88.4772	88.0313	2.2237e-01	1.9002e+00
13	TAO110136	87.4512	88.0803	87.7943	1.4981e-01	1.9002e+00
14	TAO115136	87.2621	88.2089	87.7756	2.1521e-01	1.9002e+00
15	TAO120136	87.1684	87.9043	87.5388	2.1142e-01	1.9002e+00
16	TAO125136	87.4922	88.2271	87.8414	1.7789e-01	1.9002e+00
17	TAO130136	86.9778	87.6058	87.2825	1.3954e-01	1.9002e+00
18	TAO120048	77.0399	78.4172	77.7182	2.9018e-01	1.9000e+00
19	TAO130048	86.7668	87.3972	87.0649	1.4293e-01	1.9002e+00
20	TAO120224	86.9922	87.7287	87.2871	1.5323e-01	1.9002e+00
21	TAO130224	86.8321	87.7724	87.2542	1.8978e-01	1.9002e+00
22	TAO120312	86.9797	87.7167	87.3126	1.7058e-01	1.9002e+00
23	TAO130312	86.7979	87.4292	87.0716	1.5888e-01	1.9002e+00
24	TRT020000	87.3167	88.2646	87.8227	2.2819e-01	1.9002e+00
25	TRT070000	87.1873	87.9261	87.6304	1.6370e-01	1.9002e+00
26	TRT100000	87.4931	88.3333	87.9425	2.0434e-01	1.9002e+00
27	TRT120000	87.3617	87.9924	87.6313	1.4735e-01	1.9002e+00
28	TRT125000	76.1983	77.0441	76.6501	1.8959e-01	1.9000e+00
29	TRT130000	86.8997	87.6359	87.3454	1.6519e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6470	1.9505e-01	1.9011e+00
31	TAF050136	87.4679	88.2034	87.8294	1.7487e-01	1.9002e+00
32	TAF070136	82.0077	82.8485	82.3743	1.9721e-01	1.9001e+00
33	TAF080136	87.3105	87.8354	87.5542	1.5621e-01	1.9002e+00
34	TAF090136	75.6485	76.9206	76.3058	2.8550e-01	1.9000e+00
35	TAF100136	87.1570	87.9989	87.5443	1.6534e-01	1.9002e+00
36	TAF105136	87.1744	88.1151	87.6208	2.3875e-01	1.9002e+00
37	TAF110136	86.9537	87.7930	87.3520	1.8229e-01	1.9002e+00
38	TAF115136	87.6062	88.3404	87.9169	1.7968e-01	1.9002e+00
39	TAF120136	87.3388	87.9688	87.6126	1.3265e-01	1.9002e+00
40	TAF125136	87.0793	88.2283	87.7223	2.5501e-01	1.9002e+00
41	TAF130136	87.1308	87.7619	87.5219	1.6445e-01	1.9002e+00
42	TAF120048	87.4719	88.5275	87.9870	2.1811e-01	1.9002e+00
43	TAF130048	87.2587	87.7850	87.4905	1.3431e-01	1.9002e+00
44	TAF120224	87.3624	88.0965	87.7401	1.6426e-01	1.9002e+00
45	TAF130224	86.8209	87.4536	87.0532	1.5934e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1032	1.9822e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1832	8.5040e-02	1.9010e+00
48	TAI130048	87.3159	88.3665	87.8453	2.8696e-01	1.9002e+00
49	TAI130136	86.7863	87.5211	87.1227	1.8844e-01	1.9002e+00
50	TAI130224	87.7885	88.8412	88.3107	3.0869e-01	1.9002e+00
51	TAI130312	87.0912	87.8278	87.4656	1.7796e-01	1.9002e+00
52	TRR130000	85.9770	86.9210	86.4086	2.2752e-01	1.9002e+00
53	TSI000001	80.3398	80.9737	80.6573	1.5235e-01	1.9001e+00
54	TSI000002	75.9061	76.9647	76.4393	2.3407e-01	1.9000e+00
55	TSO000001	73.9381	74.7907	74.3307	2.1139e-01	1.9000e+00
56	TSO000002	82.2416	83.0861	82.7401	1.8713e-01	1.9001e+00
57	TAF020136	86.5419	87.4918	87.0065	1.8352e-01	1.9002e+00
58	TAF120312	86.9288	87.9798	87.2907	2.4478e-01	1.9002e+00
59	TAF130312	86.5653	87.1962	86.8595	1.4249e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.5027	9.6655e-04	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5169	1.7115e-03	0.0000e+00
62	EMPTY	0.5273	0.5322	0.5280	1.7115e-03	0.0000e+00
63	EMPTY	0.5371	0.5469	0.5437	2.5648e-03	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3476	1.8950e-03	0.0000e+00
65	EMPTY	0.3711	0.3711	0.3711	0.0000e+00	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3865	1.8082e-03	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4055	9.6655e-04	0.0000e+00
68	EMPTY	0.4150	0.4248	0.4202	1.8216e-03	0.0000e+00
69	EMPTY	0.4395	0.4395	0.4395	0.0000e+00	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4547	1.6028e-03	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4787	9.6655e-04	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4934	9.6655e-04	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5129	9.6655e-04	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5311	2.1065e-03	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5472	1.1714e-03	0.0000e+00
76	EMPTY	0.5518	0.5664	0.5623	2.4878e-03	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5839	2.4344e-03	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6057	9.6655e-04	0.0000e+00
79	EMPTY	0.6299	0.6348	0.6300	6.9053e-04	0.0000e+00
80	PAN020136	-17.3861	-17.1572	-17.2686	5.1607e-02	8.7107e-01
81	PAN050136	-34.1366	-33.6788	-33.9352	1.1714e-01	1.6821e+00
82	PAN070136	-22.9759	-22.6707	-22.8355	7.9137e-02	8.7187e-01
83	PAN080136	-11.6670	-11.3618	-11.4793	7.7392e-02	8.7047e-01
84	PAN090136	-11.3442	-11.0390	-11.2008	7.3341e-02	8.7045e-01
85	PAN100136	-11.6567	-11.4278	-11.5834	6.5322e-02	8.7048e-01
86	PAN105136	-5.6421	-5.1843	-5.4513	7.2706e-02	8.7011e-01
87	PAN110136	-5.6963	-5.3148	-5.5849	6.7557e-02	8.7011e-01
88	PAN115136	-5.8812	-5.5760	-5.7179	6.7204e-02	8.7012e-01
89	PAN120136	-5.6038	-5.2987	-5.4360	6.7187e-02	8.7011e-01
90	PAN125136	-6.1086	-5.8797	-5.9636	5.8185e-02	8.7013e-01
91	PAN130136	-5.8459	-5.6170	-5.7620	4.9348e-02	8.7012e-01
92	PAN120048	-12.1056	-11.8768	-11.9988	4.6241e-02	8.7052e-01
93	PAN130048	-11.4204	-11.1152	-11.2571	6.5413e-02	8.7046e-01
94	PAN120224	-11.2210	-10.9158	-11.0608	6.9362e-02	8.7044e-01
95	PAN130224	-11.5979	-11.2165	-11.3889	6.6850e-02	8.7047e-01
96	PAN120312	-11.5129	-11.2840	-11.4030	7.2559e-02	8.7047e-01
97	PAN130312	-11.3618	-11.1329	-11.2733	6.0409e-02	8.7046e-01
98	PAB000136	14.1813	14.3187	14.2601	3.8176e-02	5.8109e-01
99	PAB100136	17.9376	18.1207	18.0539	4.0534e-02	5.8175e-01
100	PAB125136	19.0310	19.1683	19.0905	3.9508e-02	5.8196e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	14.2019	14.4460	14.3239	2.4662e-02	7.5085e-01
102	PRV000001	19.2303	19.3524	19.2327	1.7263e-02	7.5154e-01
103	PSR000001	19.6691	19.7911	19.7277	6.1605e-02	7.5162e-01
104	PFM000001	0.4507	0.7254	0.5899	5.6224e-02	5.0000e-01
105	PAN000136	-142.7779	-140.9468	-142.0546	3.0798e-01	4.9328e+00
106	PFM000002	0.5366	0.5702	0.5578	8.1713e-03	2.0000e-01
107	EMPTY	-0.0049	0.0049	-0.0011	3.9815e-03	0.0000e+00
108	EMPTY	-10.0000	-5.0781	-8.0102	1.0791e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0002	1.6972e-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	-0.8526	-0.6573	-0.8018	8.6541e-02	8.1001e-01
113	VPW000002	-1.0404	-0.6498	-0.7670	1.0440e-01	8.1001e-01
114	VPW000003	-0.9240	-0.3380	-0.6544	1.3022e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6369	9.8963e-02	8.1001e-01
116	VPW000005	-1.6639	-1.0780	-1.3084	1.2901e-01	8.1004e-01
117	VPW000006	-1.6489	-1.0630	-1.3950	1.0625e-01	8.1004e-01
118	IPW000001	-11.6766	-7.7719	-9.4899	1.0902e+00	8.1003e+00
119	IPW000002	-12.2331	-6.3793	-9.8526	1.1350e+00	8.1004e+00
120	IPW000003	-12.8625	-7.0125	-10.9905	1.1792e+00	8.1005e+00
121	IPW000004	-2.2536	-1.2771	-1.8337	2.4184e-01	2.0001e+00
122	IPW000005	-4.4786	-3.0139	-3.4631	3.0941e-01	2.0002e+00
123	IPW000006	-3.2959	-1.8310	-2.2998	3.5513e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0098	-0.0199	3.3944e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0126	2.8058e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0162	2.6908e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.8257e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0191	9.6332e-02	4.1000e+00
129	IHT000002	-0.4282	0.1577	-0.0376	9.6655e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0395	8.4262e-02	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0270	9.8648e-02	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0581	1.0106e-01	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0571	1.0440e-01	4.1000e+00
134	IHT000007	-0.0601	0.3305	-0.0327	7.9017e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0718	9.7935e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0107	7.7324e-02	4.1000e+00
137	IHT000010	-0.3380	0.2479	-0.0724	1.0992e-01	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0464	9.2034e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.0832	9.7377e-02	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0804	9.8648e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	0.0117	9.1779e-02	4.1000e+00
142	IHT000015	-0.0488	0.1465	-0.0137	7.5798e-02	4.1000e+00
143	IHT000016	-0.3305	0.0601	-0.0219	1.0507e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.1274	2.7680e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0303	1.0410e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2093	1.0447e-01	4.1000e+00
147	IHT000020	-0.4470	0.3343	-0.0485	1.0410e-01	4.1000e+00
148	IHT000021	-0.0714	0.5146	0.0185	1.2608e-01	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1092	9.8332e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1496	9.5357e-02	4.1000e+00
151	IHT000024	-0.4770	0.1089	-0.2504	1.0705e-01	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2614	9.0412e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0067	9.8648e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	0.0092	8.1729e-02	4.1000e+00
155	IHT000028	-0.0526	0.1427	0.0216	9.5765e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.3080	-0.0240	1.0625e-01	4.1000e+00
157	IHT000030	-0.0150	0.1803	0.0631	9.6655e-02	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0059	1.2503e-01	4.1000e+00
159	IHT000032	-0.0976	0.4883	-0.0039	1.2627e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	0.0000	1.1334e-01	4.1000e+00
161	IHT000034	-0.2329	0.3531	0.0054	1.2027e-01	4.1000e+00
162	IHT000035	-0.1277	0.4582	0.0637	1.1497e-01	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0550	1.0014e-01	4.1000e+00

Velocity 1 = 2.0283 (ft/sec) (+/- 42.8883 %)
Velocity 2 = 1.9866 (ft/sec) (+/- 16.1997 %)
Pressure drop = -5.1288 (psi)
Tsat in = 210.5542 (deg F) Tsat out = 225.0999 (deg F)
Phi inner = 0.0044 (kBtu/hr-ft2) (+/- 132.8769 %)
Phi outer = 0.0073 (kBtu/hr-ft2) (+/- 124.7371 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.4806	74.3343	73.8291	1.8838e-01	1.9000e+00
1	TRF000002	73.7485	74.1730	73.9348	1.1969e-01	1.9000e+00
2	TFM000001	87.5482	88.2833	87.7590	1.5752e-01	1.9002e+00
3	TIN000001	86.8488	87.5861	87.1543	1.4614e-01	1.9002e+00
4	TRV000001	86.4940	87.4378	86.8921	1.9965e-01	1.9002e+00
5	TSR000001	87.3746	88.0058	87.6749	1.7669e-01	1.9002e+00
6	TAO020136	81.0327	81.8792	81.5142	2.3754e-01	1.9001e+00
7	TAO050136	87.1243	88.0690	87.6359	1.8857e-01	1.9002e+00
8	TAO070136	87.1920	88.1405	87.6091	1.9944e-01	1.9002e+00
9	TAO080136	86.8231	87.6628	87.2169	1.6377e-01	1.9002e+00
10	TAO090136	87.3253	88.0618	87.7265	1.7361e-01	1.9002e+00
11	TAO100136	87.1364	87.8732	87.4522	1.7164e-01	1.9002e+00
12	TAO105136	87.5305	88.5825	88.1080	2.4487e-01	1.9002e+00
13	TAO110136	87.4512	88.1829	87.8183	1.4834e-01	1.9002e+00
14	TAO115136	87.2624	88.3141	87.7067	2.4960e-01	1.9002e+00
15	TAO120136	87.0634	87.7993	87.5164	1.7718e-01	1.9002e+00
16	TAO125136	87.3877	88.2287	87.8208	2.1163e-01	1.9002e+00
17	TAO130136	86.9778	87.6064	87.2930	1.5453e-01	1.9002e+00
18	TAO120048	77.1464	78.2051	77.6824	2.8209e-01	1.9000e+00
19	TAO130048	86.7668	87.3978	87.0838	1.4625e-01	1.9002e+00
20	TAO120224	86.8872	87.6238	87.2952	1.7916e-01	1.9002e+00
21	TAO130224	86.8321	87.7724	87.3350	2.0869e-01	1.9002e+00
22	TAO120312	86.9797	87.6118	87.3043	1.6341e-01	1.9002e+00
23	TAO130312	86.7979	87.4297	87.0943	1.5123e-01	1.9002e+00
24	TRT020000	87.3167	88.2652	87.8631	1.9900e-01	1.9002e+00
25	TRT070000	87.2929	88.0316	87.6415	1.8048e-01	1.9002e+00
26	TRT100000	87.5976	88.3338	87.9431	1.8174e-01	1.9002e+00
27	TRT120000	87.3617	87.9930	87.6518	1.3998e-01	1.9002e+00
28	TRT125000	76.1983	77.1481	76.6980	1.9865e-01	1.9000e+00
29	TRT130000	86.8997	87.7405	87.3609	1.8799e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5729	2.3430e-01	1.9011e+00
31	TAF050136	87.4679	88.4130	87.8517	1.8369e-01	1.9002e+00
32	TAF070136	82.0077	82.7449	82.4246	1.7962e-01	1.9001e+00
33	TAF080136	87.3111	87.9376	87.5720	1.5714e-01	1.9002e+00
34	TAF090136	75.6485	76.8147	76.2631	2.6219e-01	1.9000e+00
35	TAF100136	87.2619	87.9995	87.6080	1.7196e-01	1.9002e+00
36	TAF105136	87.2771	88.2177	87.6491	2.2262e-01	1.9002e+00
37	TAF110136	87.0573	87.6880	87.3900	1.7314e-01	1.9002e+00
38	TAF115136	87.6057	88.3410	87.9531	2.0782e-01	1.9002e+00
39	TAF120136	87.3388	87.9694	87.6160	1.3007e-01	1.9002e+00
40	TAF125136	87.1821	88.3338	87.8247	2.4285e-01	1.9002e+00
41	TAF130136	87.1308	87.8674	87.5406	1.3948e-01	1.9002e+00
42	TAF120048	87.4722	88.6329	88.0082	2.3196e-01	1.9002e+00
43	TAF130048	87.1537	87.8906	87.5552	1.6014e-01	1.9002e+00
44	TAF120224	87.2569	88.2020	87.7371	2.1203e-01	1.9002e+00
45	TAF130224	86.7154	87.4541	87.0794	1.5682e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0725	1.8999e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1793	8.1188e-02	1.9010e+00
48	TAI130048	87.0009	88.4709	87.9182	3.1410e-01	1.9002e+00
49	TAI130136	86.6813	87.5217	87.1253	2.0898e-01	1.9002e+00
50	TAI130224	87.6830	88.9466	88.2805	2.8454e-01	1.9002e+00
51	TAI130312	87.0906	87.9333	87.4690	1.8470e-01	1.9002e+00
52	TRR130000	85.7662	87.0245	86.4623	2.6103e-01	1.9002e+00
53	TSI000001	80.3398	80.9743	80.6401	1.3873e-01	1.9001e+00
54	TSI000002	75.8006	76.8588	76.3942	2.6170e-01	1.9000e+00
55	TSO000001	73.9387	74.6846	74.2865	1.6961e-01	1.9000e+00
56	TSO000002	82.2416	83.1916	82.7955	2.2442e-01	1.9001e+00
57	TAF020136	86.5419	87.4927	87.1001	1.9517e-01	1.9002e+00
58	TAF120312	86.8245	87.8742	87.2981	2.4648e-01	1.9002e+00
59	TAF130312	86.5647	87.3009	86.8912	1.6932e-01	1.9002e+00
60	EMPTY	0.4980	0.5078	0.5028	1.2165e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5173	1.1827e-03	0.0000e+00
62	EMPTY	0.5273	0.5322	0.5286	2.1781e-03	0.0000e+00
63	EMPTY	0.5420	0.5469	0.5443	2.4621e-03	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3477	1.9883e-03	0.0000e+00
65	EMPTY	0.3662	0.3760	0.3710	1.2165e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3859	9.7615e-04	0.0000e+00
67	EMPTY	0.4053	0.4199	0.4058	2.2826e-03	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4201	9.7615e-04	0.0000e+00
69	EMPTY	0.4346	0.4443	0.4396	1.2165e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4543	9.7615e-04	0.0000e+00
71	EMPTY	0.4736	0.4834	0.4784	1.2165e-03	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4931	6.9754e-04	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5128	6.9754e-04	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5297	2.4662e-03	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5472	1.1827e-03	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5617	9.7615e-04	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5827	2.3483e-03	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6056	6.9754e-04	0.0000e+00
79	EMPTY	0.6299	0.6348	0.6300	6.9754e-04	0.0000e+00
80	PAN020136	-17.3861	-17.1572	-17.2693	6.6260e-02	8.7107e-01
81	PAN050136	-34.1366	-33.8314	-33.9248	9.2482e-02	1.6821e+00
82	PAN070136	-22.9759	-22.6707	-22.8062	8.4248e-02	8.7187e-01
83	PAN080136	-11.6670	-11.3618	-11.5050	8.3333e-02	8.7048e-01
84	PAN090136	-11.3442	-11.0390	-11.1916	6.4211e-02	8.7045e-01
85	PAN100136	-11.7330	-11.4278	-11.5897	6.7224e-02	8.7048e-01
86	PAN105136	-5.5658	-5.2606	-5.4505	7.3249e-02	8.7011e-01
87	PAN110136	-5.6963	-5.3911	-5.5826	5.8525e-02	8.7011e-01
88	PAN115136	-5.8812	-5.5760	-5.7161	6.6706e-02	8.7012e-01
89	PAN120136	-5.6038	-5.3750	-5.4497	6.8752e-02	8.7011e-01
90	PAN125136	-6.0323	-5.8797	-5.9498	5.3580e-02	8.7013e-01
91	PAN130136	-5.8459	-5.6170	-5.7618	6.2769e-02	8.7012e-01
92	PAN120048	-12.0293	-11.9530	-11.9967	3.8147e-02	8.7052e-01
93	PAN130048	-11.4204	-11.1152	-11.2554	6.2966e-02	8.7045e-01
94	PAN120224	-11.2210	-10.9158	-11.0466	5.8270e-02	8.7044e-01
95	PAN130224	-11.5216	-11.2928	-11.3815	6.6706e-02	8.7047e-01
96	PAN120312	-11.5129	-11.2840	-11.3868	7.0599e-02	8.7047e-01
97	PAN130312	-11.4381	-11.2092	-11.2793	5.9986e-02	8.7046e-01
98	PAB000136	14.1356	14.2729	14.1907	4.0708e-02	5.8108e-01
99	PAB100136	17.9376	18.0750	18.0086	4.2882e-02	5.8174e-01
100	PAB125136	18.9852	19.0768	19.0357	3.9912e-02	5.8195e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	14.2019	14.3239	14.2866	5.6843e-02	7.5085e-01
102	PRV000001	19.2303	19.3524	19.3050	6.0094e-02	7.5155e-01
103	PSR000001	19.5470	19.7911	19.6765	3.8668e-02	7.5161e-01
104	PFM000001	0.4507	0.6338	0.5834	5.3060e-02	5.0000e-01
105	PAN000136	-142.3201	-141.8624	-141.9931	2.0894e-01	4.9328e+00
106	PFM000002	0.5366	0.5870	0.5585	1.1465e-02	2.0000e-01
107	EMPTY	-0.0049	0.0049	-0.0014	3.4527e-03	0.0000e+00
108	EMPTY	-10.0000	-2.9248	-8.0989	1.3558e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0001	1.5727e-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	-1.0479	-0.6573	-0.7968	9.7656e-02	8.1001e-01
113	VPW000002	-0.8451	-0.6498	-0.7574	9.8153e-02	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6370	1.0625e-01	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6280	1.1117e-01	8.1001e-01
116	VPW000005	-1.6639	-1.0780	-1.3450	1.1755e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4337	1.1448e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.3258	1.1257e+00	8.1003e+00
119	IPW000002	-12.2331	-8.3306	-9.6845	1.1408e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-10.8727	1.0893e+00	8.1005e+00
121	IPW000004	-2.2536	-1.7654	-1.8849	2.1215e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5121	3.0701e-01	2.0002e+00
123	IPW000006	-2.8076	-1.8310	-2.3293	3.2281e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0195	3.1518e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0131	2.3135e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0164	2.5787e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0148	2.8119e-03	0.0000e+00
128	IHT000001	-0.2066	0.1841	-0.0073	9.3412e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0376	7.9736e-02	4.1000e+00
130	IHT000003	-0.0864	0.3042	-0.0067	1.0486e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	0.0084	1.0424e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0392	9.7656e-02	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0754	9.9303e-02	4.1000e+00
134	IHT000007	-0.0601	0.1352	-0.0162	8.2338e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0940	9.2540e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	0.0016	9.7656e-02	4.1000e+00
137	IHT000010	-0.1427	0.2479	-0.0790	1.0076e-01	4.1000e+00
138	IHT000011	-0.3042	0.0864	-0.0531	9.7656e-02	4.1000e+00
139	IHT000012	-0.1653	0.2254	-0.0736	1.0625e-01	4.1000e+00
140	IHT000013	-0.0563	0.3343	0.0792	1.0701e-01	4.1000e+00
141	IHT000014	-0.1953	0.1953	0.0040	1.0156e-01	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0130	8.6187e-02	4.1000e+00
143	IHT000016	-0.1352	0.0601	-0.0435	9.8483e-02	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.1014	2.6261e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0106	1.0851e-01	4.1000e+00
146	IHT000019	0.0413	0.2366	0.1808	8.9148e-02	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0564	7.9736e-02	4.1000e+00
148	IHT000021	-0.2667	0.3193	0.0044	1.1146e-01	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1034	9.8648e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1613	7.4477e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2737	7.9328e-02	4.1000e+00
152	IHT000025	0.2028	0.3981	0.2347	7.2937e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0103	7.8092e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	0.0100	8.2338e-02	4.1000e+00
155	IHT000028	-0.2479	0.3381	0.0112	1.2215e-01	4.1000e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2780	0.1127	-0.0109	1.0315e-01	4.1000e+00
157	IHT000030	-0.0150	0.1803	0.0647	9.6990e-02	4.1000e+00
158	IHT000031	-0.1465	0.2441	0.0090	1.1262e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	0.0020	1.0640e-01	4.1000e+00
160	IHT000033	-0.0977	0.0976	0.0020	9.8648e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	0.0143	1.1117e-01	4.1000e+00
162	IHT000035	-0.1277	0.4582	0.0875	1.3369e-01	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0403	1.1644e-01	4.1000e+00

Velocity 1 = 0.010800 (ft/sec)

Velocity 2 = 0.001400 (ft/sec)

Pressure Drop = 0.002200 (psi)

Tsat in = 0.226105 (deg F) Tsat out = 0.151001 (deg F)

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

#	Name	Abs Diff	%Diff
0	TRF000001	0.0069	0.0094
1	TRF000002	0.0080	0.0108
2	TFM000001	0.0378	0.0431
3	TIN000001	0.0061	0.0070
4	TRV000001	0.0883	0.1015
5	TSR000001	0.0019	0.0022
6	TAO020136	0.0305	0.0374
7	TAO050136	0.0457	0.0522
8	TAO070136	0.0041	0.0047
9	TAO080136	0.0255	0.0292
10	TAO090136	0.0352	0.0401
11	TAO100136	0.0042	0.0048
12	TAO105136	0.0767	0.0871
13	TAO110136	0.0240	0.0273
14	TAO115136	0.0689	0.0785
15	TAO120136	0.0224	0.0256
16	TAO125136	0.0206	0.0235
17	TAO130136	0.0105	0.0120
18	TAO120048	0.0358	0.0461
19	TAO130048	0.0189	0.0217
20	TAO120224	0.0081	0.0093
21	TAO130224	0.0808	0.0926
22	TAO120312	0.0083	0.0095
23	TAO130312	0.0227	0.0261
24	TRT020000	0.0404	0.0460
25	TRT070000	0.0111	0.0127
26	TRT100000	0.0006	0.0007
27	TRT120000	0.0205	0.0234
28	TRT125000	0.0479	0.0625
29	TRT130000	0.0155	0.0177
30	EMPTY	0.0741	0.1869
31	TAF050136	0.0223	0.0254
32	TAF070136	0.0503	0.0611
33	TAF080136	0.0178	0.0203
34	TAF090136	0.0427	0.0560
35	TAF100136	0.0637	0.0728
36	TAF105136	0.0283	0.0323
37	TAF110136	0.0380	0.0435
38	TAF115136	0.0362	0.0412
39	TAF120136	0.0034	0.0039
40	TAF125136	0.1024	0.1167
41	TAF130136	0.0187	0.0214
42	TAF120048	0.0212	0.0241
43	TAF130048	0.0647	0.0739
44	TAF120224	0.0030	0.0034
45	TAF130224	0.0262	0.0301

#	Name	Abs Diff	%Diff
46	EMPTY	0.0307	0.0806
47	EMPTY	0.0039	0.0100
48	TAI130048	0.0729	0.0830
49	TAI130136	0.0026	0.0030
50	TAI130224	0.0302	0.0342
51	TAI130312	0.0034	0.0039
52	TRR130000	0.0537	0.0622
53	TSI000001	0.0172	0.0213
54	TSI000002	0.0451	0.0590
55	TSO000001	0.0442	0.0595
56	TSO000002	0.0554	0.0670
57	TAF020136	0.0936	0.1076
58	TAF120312	0.0074	0.0085
59	TAF130312	0.0317	0.0365
60	EMPTY	0.0001	0.0199
61	EMPTY	0.0004	0.0774
62	EMPTY	0.0006	0.1136
63	EMPTY	0.0006	0.1104
64	EMPTY	0.0001	0.0288
65	EMPTY	0.0001	0.0270
66	EMPTY	0.0006	0.1552
67	EMPTY	0.0003	0.0740
68	EMPTY	0.0001	0.0238
69	EMPTY	0.0001	0.0228
70	EMPTY	0.0004	0.0880
71	EMPTY	0.0003	0.0627
72	EMPTY	0.0003	0.0608
73	EMPTY	0.0001	0.0195
74	EMPTY	0.0014	0.2636
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0006	0.1067
77	EMPTY	0.0012	0.2055
78	EMPTY	0.0001	0.0165
79	EMPTY	0.0000	0.0000
80	PAN020136	0.0007	0.0041
81	PAN050136	0.0104	0.0306
82	PAN070136	0.0293	0.1283
83	PAN080136	0.0257	0.2239
84	PAN090136	0.0092	0.0821
85	PAN100136	0.0063	0.0544
86	PAN105136	0.0008	0.0147
87	PAN110136	0.0023	0.0412
88	PAN115136	0.0018	0.0315
89	PAN120136	0.0137	0.2520
90	PAN125136	0.0138	0.2314
91	PAN130136	0.0002	0.0035
92	PAN120048	0.0021	0.0175
93	PAN130048	0.0017	0.0151
94	PAN120224	0.0142	0.1284
95	PAN130224	0.0074	0.0650
96	PAN120312	0.0162	0.1421
97	PAN130312	0.0060	0.0532
98	PAB000136	0.0694	0.4867
99	PAB100136	0.0453	0.2509
100	PAB125136	0.0548	0.2871

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0373	0.2604
102	PRV000001	0.0723	0.3759
103	PSR000001	0.0512	0.2595
104	PFM000001	0.0065	1.1019
105	PAN000136	0.0615	0.0433
106	PFM000002	0.0007	0.1255
107	EMPTY	0.0003	27.2727
108	EMPTY	0.0887	1.1073
109	EMPTY	0.0003	150.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0050	0.6236
113	VPW000002	0.0096	1.2516
114	VPW000003	0.0174	2.6589
115	VPW000004	0.0089	1.3974
116	VPW000005	0.0366	2.7973
117	VPW000006	0.0387	2.7742
118	IPW000001	0.1641	1.7292
119	IPW000002	0.1681	1.7062
120	IPW000003	0.1178	1.0718
121	IPW000004	0.0512	2.7922
122	IPW000005	0.0490	1.4149
123	IPW000006	0.0295	1.2827
124	EMPTY	0.0004	2.0100
125	EMPTY	0.0005	3.9683
126	EMPTY	0.0002	1.2346
127	EMPTY	0.0012	7.5000
128	IHT000001	0.0118	61.7801
129	IHT000002	0.0000	0.0000
130	IHT000003	0.0328	83.0380
131	IHT000004	0.0354	131.1111
132	IHT000005	0.0189	32.5301
133	IHT000006	0.0183	32.0490
134	IHT000007	0.0165	50.4587
135	IHT000008	0.0222	30.9192
136	IHT000009	0.0123	114.9533
137	IHT000010	0.0066	9.1160
138	IHT000011	0.0067	14.4397
139	IHT000012	0.0096	11.5385
140	IHT000013	0.0012	1.4925
141	IHT000014	0.0077	65.8120
142	IHT000015	0.0007	5.1095
143	IHT000016	0.0216	98.6301
144	IHT000017	0.0260	20.4082
145	IHT000018	0.0197	65.0165
146	IHT000019	0.0285	13.6168
147	IHT000020	0.0079	16.2887
148	IHT000021	0.0141	76.2162
149	IHT000022	0.0058	5.3114
150	IHT000023	0.0117	7.8209
151	IHT000024	0.0233	9.3051
152	IHT000025	0.0267	10.2142
153	IHT000026	0.0036	53.7314
154	IHT000027	0.0008	8.6956
155	IHT000028	0.0104	48.1482

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0131	54.5833
157	IHT000030	0.0016	2.5357
158	IHT000031	0.0149	252.5424
159	IHT000032	0.0059	151.2821
160	IHT000033	0.0020	100.0000
161	IHT000034	0.0089	164.8148
162	IHT000035	0.0238	37.3626
163	IHT000036	0.0147	26.7273

Velocity 1 = 25.0271 (ft/sec) (+/- 1.6916 %)
Velocity 2 = 13.4153 (ft/sec) (+/- 1.7033 %)
Pressure drop = 20.0215 (psi)
Tsats in = 269.9811 (deg F) Tsats out = 233.1371 (deg F)
Phi inner = 0.0044 (kBtu/hr-ft2) (+/- 133.1326 %)
Phi outer = 0.0071 (kBtu/hr-ft2) (+/- 126.9062 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.4806	74.1210	73.8392	1.6945e-01	1.9000e+00
1	TRF000002	73.7485	74.1730	73.9990	1.4660e-01	1.9000e+00
2	TFM000001	87.2335	87.8647	87.5724	1.8640e-01	1.9002e+00
3	TIN000001	86.8494	87.5855	87.2218	1.4913e-01	1.9002e+00
4	TRV000001	87.1217	87.8555	87.5056	1.9105e-01	1.9002e+00
5	TSR000001	87.3746	88.1087	87.7548	1.5695e-01	1.9002e+00
6	TAO020136	81.1387	82.0906	81.5679	2.2039e-01	1.9001e+00
7	TAO050136	87.3332	87.9635	87.6636	1.4985e-01	1.9002e+00
8	TAO070136	87.0864	88.0347	87.5437	2.3866e-01	1.9002e+00
9	TAO080136	87.0324	87.7653	87.4243	1.6775e-01	1.9002e+00
10	TAO090136	87.2208	87.9563	87.6474	1.9238e-01	1.9002e+00
11	TAO100136	87.3461	87.8726	87.5676	1.4432e-01	1.9002e+00
12	TAO105136	87.6360	88.6873	88.1343	2.0900e-01	1.9002e+00
13	TAO110136	87.3457	88.2884	87.8841	1.6932e-01	1.9002e+00
14	TAO115136	87.3677	88.2089	87.8281	2.1747e-01	1.9002e+00
15	TAO120136	87.0634	88.0098	87.6585	1.8705e-01	1.9002e+00
16	TAO125136	87.3883	88.4375	87.9065	1.9014e-01	1.9002e+00
17	TAO130136	87.0792	87.8127	87.5005	1.7977e-01	1.9002e+00
18	TAO120048	77.1464	78.3115	77.8050	2.7982e-01	1.9000e+00
19	TAO130048	86.8705	87.6064	87.2262	1.5143e-01	1.9002e+00
20	TAO120224	86.9922	87.7287	87.3312	1.5802e-01	1.9002e+00
21	TAO130224	86.9346	88.0853	87.4314	2.0547e-01	1.9002e+00
22	TAO120312	86.9799	87.8215	87.3904	1.8807e-01	1.9002e+00
23	TAO130312	86.9025	87.5336	87.2498	1.4444e-01	1.9002e+00
24	TRT020000	87.4223	88.2646	87.8036	2.0059e-01	1.9002e+00
25	TRT070000	87.1873	88.1365	87.6872	1.7151e-01	1.9002e+00
26	TRT100000	87.5976	88.3333	87.9698	1.8383e-01	1.9002e+00
27	TRT120000	87.3617	88.0979	87.6880	1.7019e-01	1.9002e+00
28	TRT125000	76.5129	77.3591	76.9136	2.0402e-01	1.9000e+00
29	TRT130000	87.3189	87.8454	87.5321	1.5952e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6791	2.0966e-01	1.9011e+00
31	TAF050136	87.2587	88.2034	87.7857	2.0814e-01	1.9002e+00
32	TAF070136	82.0077	82.8503	82.4647	1.9435e-01	1.9001e+00
33	TAF080136	87.3105	88.0431	87.6192	1.8967e-01	1.9002e+00
34	TAF090136	75.8602	76.9198	76.3715	2.4175e-01	1.9000e+00
35	TAF100136	87.0514	88.1044	87.6094	2.1506e-01	1.9002e+00
36	TAF105136	87.1721	88.0102	87.7024	2.2960e-01	1.9002e+00
37	TAF110136	86.9537	87.7930	87.4212	1.7374e-01	1.9002e+00
38	TAF115136	87.5007	88.4458	87.9568	1.9619e-01	1.9002e+00
39	TAF120136	87.3388	87.9694	87.6901	1.3691e-01	1.9002e+00
40	TAF125136	87.1821	88.5413	87.8248	2.9970e-01	1.9002e+00
41	TAF130136	87.1308	87.8669	87.5954	1.5900e-01	1.9002e+00
42	TAF120048	87.5763	88.5269	88.0184	2.4837e-01	1.9002e+00
43	TAF130048	87.1537	87.8900	87.5975	1.6069e-01	1.9002e+00
44	TAF120224	87.3615	88.2014	87.7674	1.7996e-01	1.9002e+00
45	TAF130224	86.8214	87.3486	87.1479	1.5965e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0986	2.1368e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2016	9.9068e-02	1.9010e+00
48	TAI130048	87.1054	88.3665	87.9482	3.0194e-01	1.9002e+00
49	TAI130136	86.6813	87.5217	87.1417	2.1275e-01	1.9002e+00
50	TAI130224	87.6836	88.8412	88.3127	3.3510e-01	1.9002e+00
51	TAI130312	87.0915	87.9327	87.4761	1.9886e-01	1.9002e+00
52	TRR130000	85.9770	87.0245	86.4569	2.3772e-01	1.9002e+00
53	TSI000001	80.3398	80.9743	80.6975	1.4922e-01	1.9001e+00
54	TSI000002	75.7995	76.8582	76.3528	2.6295e-01	1.9000e+00
55	TSO000001	73.8320	74.7907	74.3583	2.1130e-01	1.9000e+00
56	TSO000002	82.4530	83.2969	82.8393	2.2311e-01	1.9001e+00
57	TAF020136	86.5419	87.3868	86.9914	1.8201e-01	1.9002e+00
58	TAF120312	86.6138	87.8748	87.3810	2.2477e-01	1.9002e+00
59	TAF130312	86.5647	87.4059	86.9624	1.9829e-01	1.9002e+00
60	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
61	EMPTY	0.5127	0.5225	0.5177	1.2041e-03	0.0000e+00
62	EMPTY	0.5225	0.5322	0.5298	2.6562e-03	0.0000e+00
63	EMPTY	0.5420	0.5469	0.5462	1.7115e-03	0.0000e+00
64	EMPTY	0.3564	0.3613	0.3600	2.2146e-03	0.0000e+00
65	EMPTY	0.3809	0.3857	0.3810	6.9053e-04	0.0000e+00
66	EMPTY	0.3955	0.4004	0.3968	2.1635e-03	0.0000e+00
67	EMPTY	0.4150	0.4199	0.4153	1.1714e-03	0.0000e+00
68	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
69	EMPTY	0.4492	0.4541	0.4494	9.6655e-04	0.0000e+00
70	EMPTY	0.4639	0.4688	0.4646	1.7115e-03	0.0000e+00
71	EMPTY	0.4883	0.4932	0.4885	9.6655e-04	0.0000e+00
72	EMPTY	0.5029	0.5078	0.5033	1.3381e-03	0.0000e+00
73	EMPTY	0.5225	0.5273	0.5226	6.9053e-04	0.0000e+00
74	EMPTY	0.5371	0.5420	0.5400	2.4164e-03	0.0000e+00
75	EMPTY	0.5566	0.5615	0.5567	6.9053e-04	0.0000e+00
76	EMPTY	0.5713	0.5762	0.5717	1.3381e-03	0.0000e+00
77	EMPTY	0.5908	0.5957	0.5914	1.6028e-03	0.0000e+00
78	EMPTY	0.6152	0.6250	0.6155	1.5314e-03	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6378	2.3941e-03	0.0000e+00
80	PAN020136	73.9377	75.1584	74.5176	2.2653e-01	8.8972e-01
81	PAN050136	136.1515	137.9826	136.8809	4.0110e-01	1.7145e+00
82	PAN070136	76.2062	77.5032	76.7555	2.4517e-01	8.9091e-01
83	PAN080136	37.0849	37.7715	37.3458	1.3965e-01	8.7500e-01
84	PAN090136	33.8981	34.4321	34.2490	1.1008e-01	8.7420e-01
85	PAN100136	41.9780	42.5883	42.3335	1.3579e-01	8.7641e-01
86	PAN105136	22.1289	22.5104	22.3441	9.4628e-02	8.7179e-01
87	PAN110136	28.1782	28.7123	28.4834	1.1839e-01	8.7291e-01
88	PAN115136	31.4266	31.9606	31.6631	1.3894e-01	8.7359e-01
89	PAN120136	34.2979	34.8320	34.5481	1.3083e-01	8.7428e-01
90	PAN125136	20.9757	21.3572	21.1573	1.1315e-01	8.7161e-01
91	PAN130136	10.0996	10.4047	10.2384	1.0865e-01	8.7038e-01
92	PAN120048	25.8125	26.4991	26.0856	1.3880e-01	8.7244e-01
93	PAN130048	53.2005	54.0398	53.5713	1.5795e-01	8.8025e-01
94	PAN120224	56.1466	56.9095	56.5479	1.7081e-01	8.8141e-01
95	PAN130224	40.7397	41.2738	41.0052	1.3807e-01	8.7602e-01
96	PAN120312	28.7703	29.1518	28.9580	1.0478e-01	8.7301e-01
97	PAN130312	49.5970	50.3600	49.9007	1.5981e-01	8.7890e-01
98	PAB000136	41.5556	42.1049	41.7872	1.1152e-01	5.8933e-01
99	PAB100136	27.0014	27.1845	27.0911	4.7121e-02	5.8394e-01
100	PAB125136	22.0522	22.1895	22.1053	4.2742e-02	5.8263e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	41.4235	42.0339	41.7019	1.5990e-01	7.5721e-01
102	PRV0000001	19.1082	19.2303	19.2278	1.7263e-02	7.5154e-01
103	PSR0000001	19.6691	19.7911	19.7667	4.9324e-02	7.5163e-01
104	PFM0000001	95.6655	97.8628	96.5756	4.5511e-01	5.5524e-01
105	PAN000136	551.1918	559.4316	554.3045	1.7498e+00	5.1114e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0146	0.0098	9.8648e-04	0.0000e+00
108	EMPTY	-10.0000	-5.3027	-8.3555	1.0758e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0075	2.4583e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0046	1.1714e-03	0.0000e+00
112	VPW0000001	-1.0479	-0.6573	-0.7901	1.0014e-01	8.1001e-01
113	VPW0000002	-0.8451	-0.4545	-0.7396	1.0595e-01	8.1001e-01
114	VPW0000003	-0.7286	-0.3380	-0.6427	1.0559e-01	8.1001e-01
115	VPW0000004	-0.8752	-0.2892	-0.6134	1.1578e-01	8.1001e-01
116	VPW0000005	-1.4686	-1.0780	-1.3006	1.0447e-01	8.1004e-01
117	VPW0000006	-1.6489	-1.2583	-1.4419	1.0741e-01	8.1005e-01
118	IPW0000001	-11.6766	-5.8195	-9.3337	1.3082e+00	8.1003e+00
119	IPW0000002	-12.2331	-6.3793	-9.5794	1.2316e+00	8.1004e+00
120	IPW0000003	-12.8625	-8.9625	-10.9905	1.0393e+00	8.1005e+00
121	IPW0000004	-2.2536	-1.2771	-1.8923	2.5743e-01	2.0001e+00
122	IPW0000005	-3.9904	-2.5257	-3.4240	3.9897e-01	2.0002e+00
123	IPW0000006	-2.8076	-1.3427	-2.2509	3.4187e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0197	3.6858e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0128	2.9413e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0170	3.4513e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.3901e-03	0.0000e+00
128	IHT0000001	-0.2066	0.1841	-0.0191	8.7880e-02	4.1000e+00
129	IHT0000002	-0.2329	0.1577	-0.0376	6.8345e-02	4.1000e+00
130	IHT0000003	-0.0864	0.1089	-0.0395	8.4262e-02	4.1000e+00
131	IHT0000004	-0.2028	0.3831	-0.0192	1.2104e-01	4.1000e+00
132	IHT0000005	-0.2066	0.1841	-0.0425	9.1354e-02	4.1000e+00
133	IHT0000006	-0.0601	0.3305	0.0454	1.0595e-01	4.1000e+00
134	IHT0000007	-0.2554	0.1352	-0.0210	8.8233e-02	4.1000e+00
135	IHT0000008	-0.3531	0.0376	-0.0796	1.0440e-01	4.1000e+00
136	IHT0000009	-0.2216	0.1690	-0.0185	7.8523e-02	4.1000e+00
137	IHT0000010	-0.1427	0.0526	-0.0646	9.6655e-02	4.1000e+00
138	IHT0000011	-0.1089	0.0864	-0.0581	8.6541e-02	4.1000e+00
139	IHT0000012	-0.1653	0.0301	-0.1028	9.2034e-02	4.1000e+00
140	IHT0000013	-0.0563	0.1390	0.0530	9.7935e-02	4.1000e+00
141	IHT0000014	-0.1953	0.1953	-0.0117	6.1257e-02	4.1000e+00
142	IHT0000015	-0.2442	0.1465	-0.0293	7.1136e-02	4.1000e+00
143	IHT0000016	-0.1352	0.2554	-0.0454	1.0595e-01	4.1000e+00
144	IHT0000017	-0.3530	0.6235	0.0923	2.7063e-01	4.1000e+00
145	IHT0000018	-0.3681	0.2178	-0.0048	1.1168e-01	4.1000e+00
146	IHT0000019	0.0413	0.4319	0.2054	9.1354e-02	4.1000e+00
147	IHT0000020	-0.2517	0.1390	-0.0525	8.3612e-02	4.1000e+00
148	IHT0000021	-0.0714	0.3193	0.0576	1.0145e-01	4.1000e+00
149	IHT0000022	0.0037	0.1991	0.1287	9.4702e-02	4.1000e+00
150	IHT0000023	-0.0300	0.3606	0.1535	9.1779e-02	4.1000e+00
151	IHT0000024	-0.4770	-0.0864	-0.2817	7.8918e-02	4.1000e+00
152	IHT0000025	0.0075	0.3981	0.2458	9.0756e-02	4.1000e+00
153	IHT0000026	-0.1690	0.2216	0.0263	3.9459e-02	4.1000e+00
154	IHT0000027	-0.0338	0.1615	0.0248	9.0412e-02	4.1000e+00
155	IHT0000028	-0.2479	0.3381	-0.0096	1.0654e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.3080	-0.0240	9.8648e-02	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0280	9.8963e-02	4.1000e+00
158	IHT000031	-0.3418	0.2441	-0.0371	1.3760e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	-0.0156	1.0507e-01	4.1000e+00
160	IHT000033	-0.0977	0.0976	-0.0391	9.0412e-02	4.1000e+00
161	IHT000034	-0.2329	0.1577	0.0054	9.8963e-02	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0481	9.8648e-02	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0394	1.0849e-01	4.1000e+00

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sum2

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Velocity 1 = 25.0051 (ft/sec) (+/- 1.6917 %)
Velocity 2 = 13.4154 (ft/sec) (+/- 1.7033 %)
Pressure drop = 19.9870 (psi)
Tsat in = 269.8913 (deg F) Tsat out = 233.0237 (deg F)
Phi inner = 0.0044 (kBtu/hr-ft2) (+/- 134.4115 %)
Phi outer = 0.0072 (kBtu/hr-ft2) (+/- 125.5940 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.4806	74.1210	73.8291	1.6123e-01	1.9000e+00
1	TRF000002	73.7485	74.1730	73.9954	1.2516e-01	1.9000e+00
2	TFM000001	87.2343	87.8647	87.6392	1.4993e-01	1.9002e+00
3	TIN000001	87.0592	87.5855	87.2959	1.3505e-01	1.9002e+00
4	TRV000001	87.1217	87.9596	87.5326	2.1887e-01	1.9002e+00
5	TSR000001	87.3746	88.1087	87.6920	1.5364e-01	1.9002e+00
6	TAO20136	81.1387	82.0906	81.5313	1.9181e-01	1.9001e+00
7	TAO050136	87.4381	87.9635	87.7426	1.5315e-01	1.9002e+00
8	TAO070136	87.1914	88.1400	87.6305	2.0668e-01	1.9002e+00
9	TAO080136	87.0324	87.8684	87.4641	1.8950e-01	1.9002e+00
10	TAO090136	87.3264	88.1650	87.7522	1.7829e-01	1.9002e+00
11	TAO100136	87.2420	87.8717	87.6148	1.6055e-01	1.9002e+00
12	TAO105136	87.6354	88.5819	88.1594	2.0972e-01	1.9002e+00
13	TAO110136	87.6594	88.1835	87.9375	1.1006e-01	1.9002e+00
14	TAO115136	87.2624	88.3135	87.8010	2.3171e-01	1.9002e+00
15	TAO120136	87.3783	88.1141	87.6835	1.5352e-01	1.9002e+00
16	TAO125136	87.3877	88.3326	87.9747	2.2144e-01	1.9002e+00
17	TAO130136	87.2898	87.8092	87.5595	1.4281e-01	1.9002e+00
18	TAO120048	77.2522	78.3115	77.8033	3.2780e-01	1.9000e+00
19	TAO130048	86.9761	87.5014	87.3187	1.5423e-01	1.9002e+00
20	TAO120224	87.0978	87.8330	87.4366	1.6092e-01	1.9002e+00
21	TAO130224	87.1452	87.8743	87.5094	1.8226e-01	1.9002e+00
22	TAO120312	87.0853	87.7165	87.4503	1.4893e-01	1.9002e+00
23	TAO130312	87.0081	87.6369	87.3252	1.4128e-01	1.9002e+00
24	TRT020000	87.4223	88.2652	87.8759	2.0526e-01	1.9002e+00
25	TRT070000	87.3979	88.0316	87.7449	1.7364e-01	1.9002e+00
26	TRT100000	87.7031	88.4376	88.0329	1.8046e-01	1.9002e+00
27	TRT120000	87.4667	88.0971	87.7417	1.7134e-01	1.9002e+00
28	TRT125000	76.5166	77.3585	76.8958	1.7456e-01	1.9000e+00
29	TRT130000	87.2143	87.9499	87.6090	1.4789e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5963	2.2452e-01	1.9011e+00
31	TAF050136	87.3643	88.2014	87.8476	1.8137e-01	1.9002e+00
32	TAF070136	82.0077	82.8485	82.5231	2.1141e-01	1.9001e+00
33	TAF080136	87.4160	88.0431	87.6997	1.6133e-01	1.9002e+00
34	TAF090136	75.8608	77.0262	76.4445	2.9567e-01	1.9000e+00
35	TAF100136	87.2619	88.1039	87.6681	1.8357e-01	1.9002e+00
36	TAF105136	87.2771	88.4258	87.7853	2.5625e-01	1.9002e+00
37	TAF110136	87.1628	87.8970	87.4883	1.6190e-01	1.9002e+00
38	TAF115136	87.6062	88.3410	88.0386	1.9917e-01	1.9002e+00
39	TAF120136	87.5493	88.1777	87.7995	1.3170e-01	1.9002e+00
40	TAF125136	87.2876	88.4364	87.9142	2.7997e-01	1.9002e+00
41	TAF130136	87.3420	87.8658	87.6390	1.2208e-01	1.9002e+00
42	TAF120048	87.5777	88.5275	88.1417	2.4039e-01	1.9002e+00
43	TAF130048	87.3643	87.9941	87.6707	1.3027e-01	1.9002e+00
44	TAF120224	87.3624	88.2020	87.8440	2.1080e-01	1.9002e+00
45	TAF130224	86.8214	87.5595	87.2128	1.2725e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0866	1.8665e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1933	9.3508e-02	1.9010e+00
48	TAI130048	87.6308	88.4709	88.0510	2.5800e-01	1.9002e+00
49	TAI130136	86.8919	87.6248	87.2535	1.9151e-01	1.9002e+00
50	TAI130224	87.6836	88.8412	88.3062	2.9976e-01	1.9002e+00
51	TAI130312	87.0906	88.0379	87.5333	1.9442e-01	1.9002e+00
52	TRR130000	85.9770	86.9195	86.4795	2.3610e-01	1.9002e+00
53	TSI000001	80.4454	80.9743	80.6660	1.4112e-01	1.9001e+00
54	TSI000002	75.9072	76.7524	76.2778	2.4325e-01	1.9000e+00
55	TSO000001	73.9387	74.6846	74.3603	1.8835e-01	1.9000e+00
56	TSO000002	82.3470	83.0867	82.8213	2.0106e-01	1.9001e+00
57	TAF020136	86.6476	87.3862	87.0395	1.8165e-01	1.9002e+00
58	TAF120312	86.9294	87.8748	87.4480	2.3800e-01	1.9002e+00
59	TAF130312	86.6703	87.3009	87.0410	1.5774e-01	1.9002e+00
60	EMPTY	0.4980	0.5078	0.5044	2.4826e-03	0.0000e+00
61	EMPTY	0.5176	0.5225	0.5184	1.8234e-03	0.0000e+00
62	EMPTY	0.5273	0.5371	0.5321	1.5727e-03	0.0000e+00
63	EMPTY	0.5420	0.5469	0.5468	6.9754e-04	0.0000e+00
64	EMPTY	0.3564	0.3613	0.3598	2.2737e-03	0.0000e+00
65	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
66	EMPTY	0.3955	0.4004	0.3968	2.1781e-03	0.0000e+00
67	EMPTY	0.4150	0.4199	0.4159	1.9103e-03	0.0000e+00
68	EMPTY	0.4297	0.4346	0.4302	1.4934e-03	0.0000e+00
69	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
70	EMPTY	0.4639	0.4688	0.4641	9.7615e-04	0.0000e+00
71	EMPTY	0.4834	0.4883	0.4882	6.9754e-04	0.0000e+00
72	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
73	EMPTY	0.5176	0.5273	0.5227	1.3951e-03	0.0000e+00
74	EMPTY	0.5371	0.5420	0.5392	2.4414e-03	0.0000e+00
75	EMPTY	0.5566	0.5664	0.5569	1.5467e-03	0.0000e+00
76	EMPTY	0.5713	0.5859	0.5719	2.3655e-03	0.0000e+00
77	EMPTY	0.5908	0.5957	0.5913	1.4934e-03	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6151	6.9754e-04	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6363	2.2737e-03	0.0000e+00
80	PAN020136	74.0140	74.9296	74.4142	1.9976e-01	8.8967e-01
81	PAN050136	135.8463	137.2196	136.6778	2.9229e-01	1.7144e+00
82	PAN070136	76.0536	77.1217	76.5674	2.0292e-01	8.9081e-01
83	PAN080136	37.0849	37.5426	37.2873	1.1073e-01	8.7498e-01
84	PAN090136	33.8218	34.3559	34.1612	1.1867e-01	8.7418e-01
85	PAN100136	42.0542	42.5120	42.2909	1.0929e-01	8.7640e-01
86	PAN105136	22.0526	22.4341	22.2691	9.6438e-02	8.7178e-01
87	PAN110136	28.1782	28.7123	28.4585	1.0139e-01	8.7290e-01
88	PAN115136	31.2740	31.8843	31.6243	1.5092e-01	8.7358e-01
89	PAN120136	34.2979	34.6031	34.4598	9.1649e-02	8.7426e-01
90	PAN125136	20.8995	21.3572	21.1517	9.7510e-02	8.7161e-01
91	PAN130136	10.0233	10.3284	10.1805	7.6940e-02	8.7037e-01
92	PAN120048	25.7362	26.3465	26.0445	1.2744e-01	8.7243e-01
93	PAN130048	53.2005	53.8109	53.4902	1.4607e-01	8.8022e-01
94	PAN120224	56.1466	56.7569	56.4642	1.2395e-01	8.8138e-01
95	PAN130224	40.5871	41.2738	40.9608	1.5824e-01	8.7601e-01
96	PAN120312	28.6940	29.2281	28.9416	1.2607e-01	8.7300e-01
97	PAN130312	49.5207	50.2074	49.7963	1.5402e-01	8.7886e-01
98	PAB000136	41.5098	41.8303	41.7247	7.0672e-02	5.8931e-01
99	PAB100136	27.0014	27.1845	27.0453	4.9408e-02	5.8393e-01
100	PAB125136	21.9607	22.1438	22.0597	4.6106e-02	5.8262e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	41.4235	42.0339	41.6054	1.4976e-01	7.5718e-01
102	PRV0000001	19.1082	19.2303	19.2278	1.7439e-02	7.5154e-01
103	PSR0000001	19.6691	19.7911	19.7214	6.1035e-02	7.5162e-01
104	PFM0000001	95.6655	97.4966	96.4036	4.3963e-01	5.5505e-01
105	PAN000136	550.7341	556.2272	553.3498	1.2183e+00	5.1108e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6356e-06	2.1154e-01
107	EMPTY	0.0098	0.0146	0.0099	6.9754e-04	0.0000e+00
108	EMPTY	-10.0000	-6.9580	-8.3133	1.0725e+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	0.0046	1.1827e-03	0.0000e+00
112	VPW0000001	-0.8526	-0.6573	-0.8048	8.4860e-02	8.1001e-01
113	VPW0000002	-0.8451	-0.6498	-0.7494	9.8648e-02	8.1001e-01
114	VPW0000003	-0.9240	-0.5333	-0.6489	1.0486e-01	8.1001e-01
115	VPW0000004	-0.8752	-0.4845	-0.6280	1.1117e-01	8.1001e-01
116	VPW0000005	-1.4686	-1.0780	-1.3091	9.4962e-02	8.1004e-01
117	VPW0000006	-1.6489	-1.2583	-1.4337	9.1305e-02	8.1005e-01
118	IPW0000001	-11.6766	-7.7719	-9.4055	1.2184e+00	8.1003e+00
119	IPW0000002	-12.2331	-6.3793	-9.4456	1.2595e+00	8.1003e+00
120	IPW0000003	-12.8625	-8.9625	-10.8727	1.2892e+00	8.1005e+00
121	IPW0000004	-2.2536	-1.2771	-1.8849	2.7351e-01	2.0001e+00
122	IPW0000005	-3.9904	-3.0139	-3.4922	3.5221e-01	2.0002e+00
123	IPW0000006	-2.8076	-1.3427	-2.1399	3.4083e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0098	-0.0185	2.8155e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0135	2.1215e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	2.6752e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	2.8191e-03	0.0000e+00
128	IHT0000001	-0.2066	0.1841	-0.0272	7.8092e-02	4.1000e+00
129	IHT0000002	-0.2329	0.1577	-0.0336	6.2908e-02	4.1000e+00
130	IHT0000003	-0.0864	0.1089	-0.0226	9.2540e-02	4.1000e+00
131	IHT0000004	-0.2028	0.1878	-0.0234	9.6318e-02	4.1000e+00
132	IHT0000005	-0.2066	0.3794	-0.0232	1.0851e-01	4.1000e+00
133	IHT0000006	-0.0601	0.1352	0.0316	9.8483e-02	4.1000e+00
134	IHT0000007	-0.0601	0.1352	-0.0322	6.9053e-02	4.1000e+00
135	IHT0000008	-0.1578	0.0376	-0.0701	9.8153e-02	4.1000e+00
136	IHT0000009	-0.2216	0.1690	-0.0143	8.3705e-02	4.1000e+00
137	IHT0000010	-0.1427	0.2479	-0.0710	1.0315e-01	4.1000e+00
138	IHT0000011	-0.1089	0.0864	-0.0651	8.2338e-02	4.1000e+00
139	IHT0000012	-0.1653	0.0301	-0.0776	9.8153e-02	4.1000e+00
140	IHT0000013	-0.0563	0.3343	0.0792	9.9303e-02	4.1000e+00
141	IHT0000014	-0.1953	0.1953	-0.0239	8.5810e-02	4.1000e+00
142	IHT0000015	-0.2442	0.1465	-0.0010	9.3759e-02	4.1000e+00
143	IHT0000016	-0.1352	0.0601	-0.0276	9.8153e-02	4.1000e+00
144	IHT0000017	-0.3530	0.6235	0.1452	2.7639e-01	4.1000e+00
145	IHT0000018	-0.3681	0.2178	0.0106	9.2715e-02	4.1000e+00
146	IHT0000019	0.0413	0.4319	0.2008	1.1044e-01	4.1000e+00
147	IHT0000020	-0.2517	0.5296	-0.0324	1.3598e-01	4.1000e+00
148	IHT0000021	-0.0714	0.3193	0.0562	1.0204e-01	4.1000e+00
149	IHT0000022	0.0037	0.3944	0.1193	1.0486e-01	4.1000e+00
150	IHT0000023	-0.0300	0.3606	0.1693	1.0156e-01	4.1000e+00
151	IHT0000024	-0.4770	-0.0864	-0.2378	9.1482e-02	4.1000e+00
152	IHT0000025	0.0075	0.3981	0.2467	9.1482e-02	4.1000e+00
153	IHT0000026	-0.1690	0.2216	0.0303	8.4477e-02	4.1000e+00
154	IHT0000027	-0.0338	0.1615	0.0180	8.7123e-02	4.1000e+00
155	IHT0000028	-0.2479	0.3381	-0.0127	1.1262e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0826	0.1127	-0.0308	8.7123e-02	4.1000e+00
157	IHT000030	-0.2103	0.3756	0.0328	1.0188e-01	4.1000e+00
158	IHT000031	-0.1465	0.2441	-0.0269	1.1146e-01	4.1000e+00
159	IHT000032	-0.0976	0.2930	-0.0139	1.0548e-01	4.1000e+00
160	IHT000033	-0.0977	0.2930	-0.0140	1.0548e-01	4.1000e+00
161	IHT000034	-0.2329	0.1577	-0.0176	1.1448e-01	4.1000e+00
162	IHT000035	-0.1277	0.2629	0.0556	8.3705e-02	4.1000e+00
163	IHT000036	-0.1878	0.2028	-0.0443	9.5812e-02	4.1000e+00

Velocity 1 = 0.021999 (ft/sec)

Velocity 2 = 0.000099 (ft/sec)

Pressure Drop = 0.034500 (psi)

Tsat in = 0.089813 (deg F) Tsat out = 0.113403 (deg F)

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

#	Name	Abs Diff	%Diff
0	TRF000001	0.0101	0.0137
1	TRF000002	0.0036	0.0049
2	TFM000001	0.0668	0.0763
3	TIN000001	0.0741	0.0850
4	TRV000001	0.0270	0.0309
5	TSR000001	0.0628	0.0716
6	TAO020136	0.0366	0.0449
7	TAO050136	0.0790	0.0901
8	TAO070136	0.0868	0.0992
9	TAO080136	0.0398	0.0455
10	TAO090136	0.1048	0.1196
11	TAO100136	0.0472	0.0539
12	TAO105136	0.0251	0.0285
13	TAO110136	0.0534	0.0608
14	TAO115136	0.0271	0.0309
15	TAO120136	0.0250	0.0285
16	TAO125136	0.0682	0.0776
17	TAO130136	0.0590	0.0674
18	TAO120048	0.0017	0.0022
19	TAO130048	0.0925	0.1061
20	TAO120224	0.1054	0.1207
21	TAO130224	0.0780	0.0892
22	TAO120312	0.0599	0.0685
23	TAO130312	0.0754	0.0864
24	TRT020000	0.0723	0.0823
25	TRT070000	0.0577	0.0658
26	TRT100000	0.0631	0.0717
27	TRT120000	0.0537	0.0612
28	TRT125000	0.0178	0.0231
29	TRT130000	0.0769	0.0879
30	EMPTY	0.0828	0.2087
31	TAF050136	0.0619	0.0705
32	TAF070136	0.0584	0.0708
33	TAF080136	0.0805	0.0919
34	TAF090136	0.0730	0.0956
35	TAF100136	0.0587	0.0670
36	TAF105136	0.0829	0.0945
37	TAF110136	0.0671	0.0767
38	TAF115136	0.0818	0.0930
39	TAF120136	0.1094	0.1248
40	TAF125136	0.0894	0.1018
41	TAF130136	0.0436	0.0498
42	TAF120048	0.1233	0.1401
43	TAF130048	0.0732	0.0836
44	TAF120224	0.0766	0.0873
45	TAF130224	0.0649	0.0745

#	Name	Abs Diff	%Diff
46	EMPTY	0.0120	0.0315
47	EMPTY	0.0083	0.0212
48	TAI130048	0.1028	0.1169
49	TAI130136	0.1118	0.1283
50	TAI130224	0.0065	0.0074
51	TAI130312	0.0572	0.0654
52	TRR130000	0.0226	0.0261
53	TSI000001	0.0315	0.0390
54	TSI000002	0.0750	0.0982
55	TSO000001	0.0020	0.0027
56	TSO000002	0.0180	0.0217
57	TAF020136	0.0481	0.0553
58	TAF120312	0.0670	0.0767
59	TAF130312	0.0786	0.0904
60	EMPTY	0.0014	0.2783
61	EMPTY	0.0007	0.1352
62	EMPTY	0.0023	0.4341
63	EMPTY	0.0006	0.1099
64	EMPTY	0.0002	0.0556
65	EMPTY	0.0001	0.0263
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0006	0.1445
68	EMPTY	0.0005	0.1164
69	EMPTY	0.0002	0.0445
70	EMPTY	0.0005	0.1076
71	EMPTY	0.0003	0.0614
72	EMPTY	0.0004	0.0795
73	EMPTY	0.0001	0.0191
74	EMPTY	0.0008	0.1482
75	EMPTY	0.0002	0.0359
76	EMPTY	0.0002	0.0350
77	EMPTY	0.0001	0.0169
78	EMPTY	0.0004	0.0650
79	EMPTY	0.0015	0.2352
80	PAN020136	0.1034	0.1388
81	PAN050136	0.2031	0.1484
82	PAN070136	0.1881	0.2451
83	PAN080136	0.0585	0.1566
84	PAN090136	0.0878	0.2564
85	PAN100136	0.0426	0.1006
86	PAN105136	0.0750	0.3357
87	PAN110136	0.0249	0.0874
88	PAN115136	0.0388	0.1225
89	PAN120136	0.0883	0.2556
90	PAN125136	0.0056	0.0265
91	PAN130136	0.0579	0.5655
92	PAN120048	0.0411	0.1576
93	PAN130048	0.0811	0.1514
94	PAN120224	0.0837	0.1480
95	PAN130224	0.0444	0.1083
96	PAN120312	0.0164	0.0566
97	PAN130312	0.1044	0.2092
98	PAB000136	0.0625	0.1496
99	PAB100136	0.0458	0.1691
100	PAB125136	0.0456	0.2063

#	Name	Abs Diff	%Diff
101	PIN000001	0.0965	0.2314
102	PRV000001	0.0000	0.0000
103	PSR000001	0.0453	0.2292
104	PFM000001	0.1720	0.1781
105	PAN000136	0.9547	0.1722
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.0204
108	EMPTY	0.0422	0.5051
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0147	1.8605
113	VPW000002	0.0098	1.3250
114	VPW000003	0.0062	0.9647
115	VPW000004	0.0146	2.3802
116	VPW000005	0.0085	0.6535
117	VPW000006	0.0082	0.5687
118	IPW000001	0.0718	0.7693
119	IPW000002	0.1338	1.3968
120	IPW000003	0.1178	1.0718
121	IPW000004	0.0074	0.3911
122	IPW000005	0.0682	1.9918
123	IPW000006	0.1110	4.9314
124	EMPTY	0.0012	6.0914
125	EMPTY	0.0007	5.4688
126	EMPTY	0.0009	5.2941
127	EMPTY	0.0001	0.6289
128	IHT000001	0.0081	42.4084
129	IHT000002	0.0040	10.6383
130	IHT000003	0.0169	42.7848
131	IHT000004	0.0042	21.8750
132	IHT000005	0.0193	45.4118
133	IHT000006	0.0138	30.3965
134	IHT000007	0.0112	53.3333
135	IHT000008	0.0095	11.9347
136	IHT000009	0.0042	22.7027
137	IHT000010	0.0064	9.9071
138	IHT000011	0.0070	12.0482
139	IHT000012	0.0252	24.5136
140	IHT000013	0.0262	49.4340
141	IHT000014	0.0122	104.2735
142	IHT000015	0.0283	96.5870
143	IHT000016	0.0178	39.2071
144	IHT000017	0.0529	57.3131
145	IHT000018	0.0154	320.8333
146	IHT000019	0.0046	2.2395
147	IHT000020	0.0201	38.2857
148	IHT000021	0.0014	2.4306
149	IHT000022	0.0094	7.3038
150	IHT000023	0.0158	10.2932
151	IHT000024	0.0439	15.5839
152	IHT000025	0.0009	0.3662
153	IHT000026	0.0040	15.2091
154	IHT000027	0.0068	27.4194
155	IHT000028	0.0031	32.2917

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0068	28.3333
157	IHT000030	0.0048	17.1429
158	IHT000031	0.0102	27.4933
159	IHT000032	0.0017	10.8974
160	IHT000033	0.0251	64.1944
161	IHT000034	0.0230	425.9259
162	IHT000035	0.0075	15.5925
163	IHT000036	0.0049	12.4366

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Velocity 1 = 26.0278 (ft/sec) (+/- 1.6887 %)
Velocity 2 = 13.4156 (ft/sec) (+/- 1.7033 %)
Pressure drop = 20.4646 (psi)
Tsat in = 267.8568 (deg F) Tsat out = 228.3083 (deg F)
Phi inner = 99.7920 (kBtu/hr-ft2) (+/- 1.5791 %)
Phi outer = 101.7672 (kBtu/hr-ft2) (+/- 1.4761 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.7789	76.4181	76.0815	1.6158e-01	1.9000e+00
1	TRF000002	76.3045	76.7283	76.4274	1.2176e-01	1.9000e+00
2	TFM000001	87.4371	88.2771	87.8315	2.2792e-01	1.9002e+00
3	TIN000001	86.8930	87.6298	87.1918	1.6246e-01	1.9002e+00
4	TRV000001	87.7009	88.6432	88.1990	2.2336e-01	1.9002e+00
5	TSR000001	104.6331	107.0027	105.7662	6.4026e-01	1.9009e+00
6	TAO020136	53.4567	55.2952	54.3917	4.2238e-01	1.9002e+00
7	TAO050136	109.4782	110.3005	109.8478	1.8240e-01	1.9011e+00
8	TAO070136	108.4843	110.7636	109.4877	4.8071e-01	1.9011e+00
9	TAO080136	84.9617	119.4118	103.3216	7.3281e+00	1.9007e+00
10	TAO090136	120.4157	121.1322	120.6657	1.9278e-01	1.9017e+00
11	TAO100136	117.3322	117.8456	117.5543	1.3330e-01	1.9015e+00
12	TAO105136	118.4977	119.4213	118.9373	2.2332e-01	1.9016e+00
13	TAO110136	121.8126	122.5252	122.0851	1.8450e-01	1.9018e+00
14	TAO115136	118.3676	119.0856	118.7123	1.9843e-01	1.9016e+00
15	TAO120136	123.0290	123.8466	123.4259	1.8650e-01	1.9019e+00
16	TAO125136	80.2156	81.1654	80.6542	2.4047e-01	1.9001e+00
17	TAO130136	119.5208	120.1294	119.8573	1.5968e-01	1.9017e+00
18	TAO120048	83.6400	84.6941	84.1671	2.7573e-01	1.9001e+00
19	TAO130048	116.9536	117.4672	117.1840	1.4879e-01	1.9015e+00
20	TAO120224	117.8934	118.6110	118.2501	1.7491e-01	1.9016e+00
21	TAO130224	113.9698	114.7898	114.3065	2.1059e-01	1.9013e+00
22	TAO120312	114.1229	114.8437	114.4487	1.6300e-01	1.9013e+00
23	TAO130312	114.4447	115.0606	114.7609	1.4212e-01	1.9013e+00
24	TRT020000	106.4321	107.3656	106.9299	2.1574e-01	1.9009e+00
25	TRT070000	111.5407	112.1621	111.8804	1.5929e-01	1.9012e+00
26	TRT100000	115.8843	116.6031	116.1842	1.8168e-01	1.9014e+00
27	TRT120000	116.7841	117.5025	117.1614	1.6519e-01	1.9015e+00
28	TRT125000	79.4678	80.1002	79.7171	1.6608e-01	1.9001e+00
29	TRT130000	115.6730	116.2884	115.9848	1.5660e-01	1.9014e+00
30	EMPTY	39.1464	40.0646	39.6056	2.3190e-01	1.9011e+00
31	TAF050136	94.8062	95.6405	95.2237	1.6980e-01	1.9004e+00
32	TAF070136	128.9874	130.3027	129.6550	3.2088e-01	1.9024e+00
33	TAF080136	116.0016	117.5290	116.6113	2.9272e-01	1.9015e+00
34	TAF090136	78.7425	79.7999	79.1828	2.7859e-01	1.9001e+00
35	TAF100136	103.2140	104.0458	103.6715	1.5851e-01	1.9008e+00
36	TAF105136	103.9057	104.7298	104.3753	2.1017e-01	1.9008e+00
37	TAF110136	105.0757	105.7990	105.3732	1.4565e-01	1.9008e+00
38	TAF115136	106.3959	107.2219	106.8997	1.9649e-01	1.9009e+00
39	TAF120136	112.8292	113.3438	113.0399	1.3292e-01	1.9012e+00
40	TAF125136	107.8359	108.9661	108.4926	2.5415e-01	1.9010e+00
41	TAF130136	108.6219	109.3445	109.0145	1.4454e-01	1.9010e+00
42	TAF120048	105.0220	105.9587	105.4764	2.6663e-01	1.9008e+00
43	TAF130048	106.3732	106.8911	106.6056	1.4128e-01	1.9009e+00
44	TAF120224	104.3677	105.0921	104.7202	1.8592e-01	1.9008e+00
45	TAF130224	105.3185	105.8380	105.6094	1.2235e-01	1.9009e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.2273	38.0204	1.6910e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2199	1.0821e-01	1.9010e+00
48	TAI130048	114.0433	115.3800	114.6683	3.2429e-01	1.9013e+00
49	TAI130136	120.1896	121.1073	120.7080	1.8072e-01	1.9017e+00
50	TAI130224	114.2199	115.4559	114.8132	2.8278e-01	1.9014e+00
51	TAI130312	112.7185	113.5437	113.1641	1.7972e-01	1.9013e+00
52	TRR130000	101.0489	102.4972	101.9091	3.7266e-01	1.9007e+00
53	TSI000001	67.7134	68.4600	68.1148	1.7437e-01	1.9000e+00
54	TSI000002	80.2944	85.1288	82.1799	1.2602e+00	1.9001e+00
55	TSO000001	67.9373	68.6871	68.3658	1.9948e-01	1.9000e+00
56	TSO000002	71.8106	72.7682	72.2575	2.2026e-01	1.9000e+00
57	TAF020136	89.1666	90.0098	89.5502	1.7784e-01	1.9003e+00
58	TAF120312	102.0426	103.0802	102.6029	2.3244e-01	1.9007e+00
59	TAF130312	104.6396	105.2622	104.9716	1.5225e-01	1.9008e+00
60	EMPTY	0.8643	0.8740	0.8694	2.2945e-03	0.0000e+00
61	EMPTY	0.8789	0.8838	0.8808	2.3941e-03	0.0000e+00
62	EMPTY	0.8887	0.8936	0.8908	2.4484e-03	0.0000e+00
63	EMPTY	0.8936	0.9082	0.9035	2.1970e-03	0.0000e+00
64	EMPTY	0.5371	0.5469	0.5414	1.8821e-03	0.0000e+00
65	EMPTY	0.5615	0.5615	0.5615	0.0000e+00	0.0000e+00
66	EMPTY	0.5762	0.5811	0.5765	1.1714e-03	0.0000e+00
67	EMPTY	0.5908	0.5957	0.5954	1.1714e-03	0.0000e+00
68	EMPTY	0.6055	0.6104	0.6098	1.6028e-03	0.0000e+00
69	EMPTY	0.6250	0.6299	0.6267	2.3365e-03	0.0000e+00
70	EMPTY	0.6348	0.6445	0.6408	2.3261e-03	0.0000e+00
71	EMPTY	0.6641	0.6689	0.6643	9.6655e-04	0.0000e+00
72	EMPTY	0.6689	0.6836	0.6787	1.7086e-03	0.0000e+00
73	EMPTY	0.6982	0.6982	0.6982	0.0000e+00	0.0000e+00
74	EMPTY	0.7129	0.7227	0.7131	1.3811e-03	0.0000e+00
75	EMPTY	0.7275	0.7324	0.7304	2.4344e-03	0.0000e+00
76	EMPTY	0.7422	0.7471	0.7430	1.8082e-03	0.0000e+00
77	EMPTY	0.7617	0.7666	0.7621	1.3381e-03	0.0000e+00
78	EMPTY	0.7861	0.7861	0.7861	0.0000e+00	0.0000e+00
79	EMPTY	0.8057	0.8057	0.8057	0.0000e+00	0.0000e+00
80	PAN020136	70.8860	71.8015	71.3270	2.1650e-01	8.8809e-01
81	PAN050136	128.3695	129.8954	129.2668	3.3007e-01	1.7108e+00
82	PAN070136	97.7211	98.8655	98.2735	2.4447e-01	9.0402e-01
83	PAN080136	42.8832	43.8750	43.3989	2.3506e-01	8.7674e-01
84	PAN090136	32.6774	33.5166	33.0283	1.7233e-01	8.7391e-01
85	PAN100136	36.9426	38.3158	37.6597	3.2442e-01	8.7508e-01
86	PAN105136	20.5268	21.8238	20.9601	3.0183e-01	8.7158e-01
87	PAN110136	26.8049	27.1101	26.9804	8.3362e-02	8.7261e-01
88	PAN115136	31.5028	31.8843	31.6905	9.1462e-02	8.7360e-01
89	PAN120136	36.6630	37.0445	36.8751	9.0259e-02	8.7487e-01
90	PAN125136	21.8150	22.2727	22.0591	1.0679e-01	8.7175e-01
91	PAN130136	11.0151	11.3966	11.2180	9.8225e-02	8.7045e-01
92	PAN120048	27.4909	28.0250	27.7030	1.2830e-01	8.7275e-01
93	PAN130048	54.1161	54.6501	54.3877	1.1955e-01	8.8056e-01
94	PAN120224	53.2474	53.7052	53.4870	1.0680e-01	8.8022e-01
95	PAN130224	47.0721	47.6825	47.3819	1.2561e-01	8.7803e-01
96	PAN120312	30.8303	31.4406	31.1248	1.4460e-01	8.7347e-01
97	PAN130312	48.2237	48.7578	48.4816	1.2512e-01	8.7840e-01
98	PAB000136	40.1823	40.5027	40.3288	8.1678e-02	5.8870e-01
99	PAB100136	25.1245	25.3534	25.2399	4.5533e-02	5.8342e-01
100	PAB125136	20.1754	20.3127	20.2230	3.5770e-02	5.8220e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8366	40.8132	40.2053	1.9495e-01	7.5671e-01
102	PRV000001	19.5965	19.8406	19.7112	3.8286e-02	7.5162e-01
103	PSR000001	17.4718	17.5939	17.5182	5.9853e-02	7.5128e-01
104	PFM000001	103.6306	106.0110	104.4784	4.8579e-01	5.6411e-01
105	PAN000136	564.0092	571.3334	566.5726	1.4026e+00	5.1198e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0146	0.0099	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	0.0830	-7.3605	3.0025e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0085	2.1635e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0031	2.3675e-03	0.0000e+00
112	VPW000001	131.1749	131.7608	131.4639	1.2627e-01	1.1306e+00
113	VPW000002	143.8627	144.6440	144.2573	2.1428e-01	1.1854e+00
114	VPW000003	117.6532	118.2392	117.8681	1.5409e-01	1.0753e+00
115	VPW000004	98.7943	99.1849	99.0014	1.2104e-01	1.0045e+00
116	VPW000005	107.8876	108.2783	108.0361	1.0849e-01	1.0374e+00
117	VPW000006	159.7318	160.3178	160.0444	1.4227e-01	1.2563e+00
118	IPW000001	1069.5840	1081.2980	1076.2610	2.7636e+00	1.1743e+01
119	IPW000002	799.3076	807.1126	802.7029	2.1524e+00	1.0287e+01
120	IPW000003	657.1875	663.0375	659.4105	1.8058e+00	9.6305e+00
121	IPW000004	536.2360	538.6774	537.7889	4.6990e-01	4.6957e+00
122	IPW000005	594.6765	596.1412	595.1157	3.8518e-01	5.1091e+00
123	IPW000006	428.5888	431.0302	429.7507	4.1725e-01	3.9403e+00
124	EMPTY	-0.0342	-0.0098	-0.0191	5.3887e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0049	-0.0127	3.6911e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0157	4.3326e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	3.1335e-03	0.0000e+00
128	IHT000001	126.9681	129.3119	127.9018	5.2540e-01	4.2949e+00
129	IHT000002	130.4500	132.5984	131.4696	4.9801e-01	4.3056e+00
130	IHT000003	130.3824	132.3355	131.2066	4.8535e-01	4.3048e+00
131	IHT000004	141.9884	144.1369	142.9845	4.4512e-01	4.3422e+00
132	IHT000005	139.8625	141.8157	140.8351	4.2405e-01	4.3351e+00
133	IHT000006	134.8370	136.5948	135.5791	4.2315e-01	4.3184e+00
134	IHT000007	128.4743	130.6227	129.3024	5.0772e-01	4.2991e+00
135	IHT000008	127.0583	129.2067	127.9645	5.1108e-01	4.2951e+00
136	IHT000009	127.7268	130.2659	128.7738	5.4069e-01	4.2975e+00
137	IHT000010	117.4955	120.4252	118.5853	5.0082e-01	4.2680e+00
138	IHT000011	115.7602	118.4946	116.8345	4.6563e-01	4.2632e+00
139	IHT000012	113.9836	116.5227	114.9133	4.5942e-01	4.2580e+00
140	IHT000013	93.0552	95.3989	94.2192	4.3218e-01	4.2069e+00
141	IHT000014	119.9181	121.8712	120.9767	3.9279e-01	4.2748e+00
142	IHT000015	97.2055	98.9633	98.2407	3.9901e-01	4.2161e+00
143	IHT000016	86.2192	87.9770	87.1137	3.7244e-01	4.1915e+00
144	IHT000017	104.3720	107.6923	106.2470	8.6810e-01	4.2354e+00
145	IHT000018	106.6181	108.5712	107.7236	4.6790e-01	4.2392e+00
146	IHT000019	113.7620	115.7151	114.5824	4.8488e-01	4.2571e+00
147	IHT000020	117.9537	119.7115	118.6451	4.6724e-01	4.2682e+00
148	IHT000021	-2.2424	-0.0939	-1.2345	5.4585e-01	4.1000e+00
149	IHT000022	97.3746	99.1324	98.2808	4.3362e-01	4.2161e+00
150	IHT000023	115.4222	116.9847	116.1449	4.4161e-01	4.2613e+00
151	IHT000024	81.2537	82.8162	82.0076	4.1947e-01	4.1812e+00
152	IHT000025	103.1288	104.8866	103.9295	4.0673e-01	4.2297e+00
153	IHT000026	104.4922	105.8594	105.1172	4.2864e-01	4.2326e+00
154	IHT000027	87.4362	88.9987	88.2369	4.2361e-01	4.1939e+00
155	IHT000028	88.8146	91.3537	89.8928	5.6115e-01	4.1974e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.0302	106.3740	105.0849	5.8394e-01	4.2325e+00
157	IHT000030	106.5955	108.9393	107.5213	5.6608e-01	4.2386e+00
158	IHT000031	95.3500	97.4985	96.3540	5.4820e-01	4.2117e+00
159	IHT000032	96.3792	98.5276	97.3479	6.0097e-01	4.2140e+00
160	IHT000033	96.1689	98.5126	97.2900	6.0336e-01	4.2139e+00
161	IHT000034	88.4428	90.5912	89.3647	4.9291e-01	4.1963e+00
162	IHT000035	116.5978	118.9416	117.5470	4.8650e-01	4.2652e+00
163	IHT000036	86.9479	89.2916	87.9478	4.4229e-01	4.1933e+00

Velocity 1 = 25.9708 (ft/sec) (+/- 1.6889 %)
Velocity 2 = 13.4152 (ft/sec) (+/- 1.7033 %)
Pressure drop = 20.4491 (psi)
Tsat in = 267.8866 (deg F) Tsat out = 228.3955 (deg F)
Phi inner = 98.9961 (kBtu/hr-ft2) (+/- 1.5847 %)
Phi outer = 101.3458 (kBtu/hr-ft2) (+/- 1.4781 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	75.7789	76.4181	76.1241	1.8206e-01	1.9000e+00
1	TRF0000002	76.0926	76.7283	76.4231	1.4301e-01	1.9000e+00
2	TFM0000001	87.0173	87.8578	87.4815	2.2161e-01	1.9002e+00
3	TIN0000001	86.5775	87.2092	86.9289	1.7361e-01	1.9002e+00
4	TRV0000001	87.2827	88.3294	87.8293	2.1202e-01	1.9002e+00
5	TSR0000001	104.4254	106.8988	105.8056	6.2504e-01	1.9009e+00
6	TAO020136	53.7816	55.0797	54.3940	3.7754e-01	1.9002e+00
7	TAO050136	109.2719	110.0959	109.6900	1.7825e-01	1.9011e+00
8	TAO070136	108.0692	110.0393	109.1458	3.9053e-01	1.9010e+00
9	TAO080136	89.1352	124.1832	112.8107	7.2469e+00	1.9012e+00
10	TAO090136	120.0080	120.8254	120.3576	1.7910e-01	1.9017e+00
11	TAO100136	116.8206	117.7431	117.3353	2.0036e-01	1.9015e+00
12	TAO105136	118.2925	119.1144	118.7056	2.1308e-01	1.9016e+00
13	TAO110136	121.4050	122.2205	121.8200	1.7401e-01	1.9018e+00
14	TAO115136	117.9568	118.8811	118.3535	2.1655e-01	1.9016e+00
15	TAO120136	122.7232	123.5410	123.1749	2.0349e-01	1.9019e+00
16	TAO125136	80.1110	80.8492	80.4459	1.9853e-01	1.9001e+00
17	TAO130136	119.1172	120.1259	119.6580	1.7978e-01	1.9017e+00
18	TAO120048	84.3767	85.5352	84.9098	2.9874e-01	1.9001e+00
19	TAO130048	116.4423	117.1612	116.9125	1.5933e-01	1.9015e+00
20	TAO120224	117.5859	118.3043	117.9901	1.9157e-01	1.9016e+00
21	TAO130224	113.5630	114.5862	114.0279	1.9629e-01	1.9013e+00
22	TAO120312	113.8142	114.5357	114.1997	1.8359e-01	1.9013e+00
23	TAO130312	114.1369	114.9590	114.5212	1.9457e-01	1.9013e+00
24	TRT020000	106.3285	107.1583	106.6872	1.8535e-01	1.9009e+00
25	TRT070000	111.2305	111.9546	111.6046	1.5631e-01	1.9012e+00
26	TRT100000	115.5775	116.2959	115.9449	2.0627e-01	1.9014e+00
27	TRT120000	116.5783	117.1946	116.8891	1.4886e-01	1.9015e+00
28	TRT125000	80.2025	81.0455	80.6513	1.8528e-01	1.9001e+00
29	TRT130000	115.2622	116.1869	115.7699	1.8025e-01	1.9014e+00
30	EMPTY	39.1464	39.8352	39.6102	2.0474e-01	1.9011e+00
31	TAF050136	94.4939	95.2253	94.9473	1.7198e-01	1.9004e+00
32	TAF070136	129.3933	130.5051	130.0733	2.4842e-01	1.9024e+00
33	TAF080136	115.8968	117.3261	116.5322	3.2714e-01	1.9015e+00
34	TAF090136	79.2704	80.2226	79.7341	2.6485e-01	1.9001e+00
35	TAF100136	103.1099	103.6304	103.3869	1.6348e-01	1.9008e+00
36	TAF105136	103.7002	104.6285	104.1393	2.2983e-01	1.9008e+00
37	TAF110136	104.8681	105.5935	105.1405	1.5910e-01	1.9008e+00
38	TAF115136	106.0861	107.1197	106.6008	2.0835e-01	1.9009e+00
39	TAF120136	112.3166	113.1396	112.8128	1.7468e-01	1.9012e+00
40	TAF125136	107.7348	108.6581	108.2081	2.5041e-01	1.9010e+00
41	TAF130136	108.3127	109.0365	108.7408	1.6564e-01	1.9010e+00
42	TAF120048	104.7105	105.5426	105.1367	1.7994e-01	1.9008e+00
43	TAF130048	105.8573	106.5820	106.3227	1.6637e-01	1.9009e+00
44	TAF120224	103.9546	104.8869	104.4577	2.0399e-01	1.9008e+00
45	TAF130224	104.9028	105.6301	105.2621	1.4267e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0204	1.9845e-01	1.9010e+00
47	EMPTY	38.9168	39.6057	39.2383	1.4670e-01	1.9010e+00
48	TAI130048	113.7355	114.8659	114.3663	2.8560e-01	1.9013e+00
49	TAI130136	119.9844	121.0068	120.4778	2.4301e-01	1.9017e+00
50	TAI130224	114.0137	115.3527	114.5929	2.8679e-01	1.9013e+00
51	TAI130312	112.4095	113.3377	112.9108	1.9868e-01	1.9012e+00
52	TRR130000	99.5995	100.5323	99.9921	2.1975e-01	1.9006e+00
53	TSI000001	67.6067	68.5672	68.0660	1.9879e-01	1.9000e+00
54	TSI000002	80.2956	85.4455	82.4431	1.1041e+00	1.9001e+00
55	TSO000001	67.6161	68.7937	68.3165	2.2919e-01	1.9000e+00
56	TSO000002	71.8106	72.6624	72.2130	2.1745e-01	1.9000e+00
57	TAF020136	88.8497	89.7987	89.2398	1.7464e-01	1.9002e+00
58	TAF120312	101.8345	102.7698	102.2359	2.1896e-01	1.9007e+00
59	TAF130312	104.3292	105.0555	104.6926	1.6393e-01	1.9008e+00
60	EMPTY	0.8545	0.8643	0.8615	2.6396e-03	0.0000e+00
61	EMPTY	0.8691	0.8740	0.8737	1.1714e-03	0.0000e+00
62	EMPTY	0.8789	0.8887	0.8839	1.2041e-03	0.0000e+00
63	EMPTY	0.8936	0.9033	0.8974	2.2689e-03	0.0000e+00
64	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
65	EMPTY	0.5566	0.5615	0.5576	1.9730e-03	0.0000e+00
66	EMPTY	0.5713	0.5762	0.5745	2.3365e-03	0.0000e+00
67	EMPTY	0.5908	0.5957	0.5911	1.1714e-03	0.0000e+00
68	EMPTY	0.6055	0.6104	0.6056	6.9053e-04	0.0000e+00
69	EMPTY	0.6201	0.6250	0.6228	2.4583e-03	0.0000e+00
70	EMPTY	0.6348	0.6396	0.6395	9.6655e-04	0.0000e+00
71	EMPTY	0.6543	0.6641	0.6610	2.5894e-03	0.0000e+00
72	EMPTY	0.6689	0.6787	0.6740	1.3811e-03	0.0000e+00
73	EMPTY	0.6934	0.6982	0.6938	1.4797e-03	0.0000e+00
74	EMPTY	0.7080	0.7129	0.7084	1.3381e-03	0.0000e+00
75	EMPTY	0.7275	0.7275	0.7275	0.0000e+00	0.0000e+00
76	EMPTY	0.7373	0.7471	0.7417	1.7784e-03	0.0000e+00
77	EMPTY	0.7568	0.7617	0.7609	1.8082e-03	0.0000e+00
78	EMPTY	0.7764	0.7861	0.7813	1.5566e-03	0.0000e+00
79	EMPTY	0.8008	0.8057	0.8015	1.7115e-03	0.0000e+00
80	PAN020136	70.5808	71.8778	71.4109	2.6323e-01	8.8813e-01
81	PAN050136	128.2169	130.0480	129.0104	3.7121e-01	1.7107e+00
82	PAN070136	97.5685	98.7892	98.0507	3.1303e-01	9.0387e-01
83	PAN080136	42.8832	43.7987	43.3471	2.4558e-01	8.7672e-01
84	PAN090136	32.6774	33.4403	33.0253	1.6826e-01	8.7391e-01
85	PAN100136	36.3322	38.4684	37.5605	4.5470e-01	8.7505e-01
86	PAN105136	20.5268	22.2052	21.1524	3.9748e-01	8.7161e-01
87	PAN110136	26.8049	27.1864	26.9545	9.3707e-02	8.7261e-01
88	PAN115136	30.2821	31.8080	31.3060	3.6151e-01	8.7351e-01
89	PAN120136	36.6630	38.1889	37.2154	3.6526e-01	8.7496e-01
90	PAN125136	21.7387	22.2727	21.9660	1.1060e-01	8.7173e-01
91	PAN130136	11.0914	11.5491	11.2791	1.3188e-01	8.7046e-01
92	PAN120048	27.2620	27.8724	27.6130	1.4377e-01	8.7273e-01
93	PAN130048	54.0398	54.6501	54.3114	1.1755e-01	8.8053e-01
94	PAN120224	53.1711	53.7052	53.3985	1.1273e-01	8.8018e-01
95	PAN130224	46.9958	47.7588	47.3102	1.7752e-01	8.7800e-01
96	PAN120312	30.7540	31.4406	31.0851	1.3839e-01	8.7346e-01
97	PAN130312	47.9949	48.6052	48.3443	1.4630e-01	8.7835e-01
98	PAB000136	40.1365	40.5943	40.3489	9.1907e-02	5.8871e-01
99	PAB100136	25.1703	25.3992	25.2820	4.7302e-02	5.8343e-01
100	PAB125136	20.1754	20.3127	20.2560	4.1934e-02	5.8221e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8366	40.8132	40.2712	2.0211e-01	7.5673e-01
102	PRV000001	19.5965	19.7186	19.6771	5.8413e-02	7.5161e-01
103	PSR000001	17.4718	17.5939	17.5377	6.1457e-02	7.5128e-01
104	PFM000001	102.6236	104.9124	104.0262	5.0195e-01	5.6359e-01
105	PAN000136	563.0937	570.4179	566.1424	1.5575e+00	5.1195e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0146	0.0098	9.8648e-04	0.0000e+00
108	EMPTY	-10.0000	0.3467	-7.3022	2.8718e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0074	2.4642e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0015	2.2603e-03	0.0000e+00
112	VPW000001	131.1749	131.7608	131.4170	1.5565e-01	1.1304e+00
113	VPW000002	143.8627	144.6440	144.2065	1.6535e-01	1.1852e+00
114	VPW000003	117.4579	117.8485	117.7314	1.0440e-01	1.0747e+00
115	VPW000004	98.7943	99.1849	98.9428	1.2823e-01	1.0043e+00
116	VPW000005	107.6923	108.0829	107.9775	1.0595e-01	1.0372e+00
117	VPW000006	159.7318	160.3178	160.0210	1.2627e-01	1.2562e+00
118	IPW000001	1077.3933	1085.2028	1081.6099	1.6434e+00	1.1774e+01
119	IPW000002	785.6487	799.3076	790.6049	3.3266e+00	1.0228e+01
120	IPW000003	643.5375	653.2875	649.6215	2.5725e+00	9.5889e+00
121	IPW000004	536.2360	538.1891	537.1346	5.4355e-01	4.6911e+00
122	IPW000005	591.7471	593.2118	592.7037	4.2949e-01	5.0916e+00
123	IPW000006	427.1240	428.5888	428.0613	4.0482e-01	3.9288e+00
124	EMPTY	-0.0342	-0.0098	-0.0209	4.9363e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	3.1257e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0170	4.3270e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0173	3.5854e-03	0.0000e+00
128	IHT000001	126.5775	129.1166	127.8354	5.7203e-01	4.2947e+00
129	IHT000002	130.2547	132.7937	131.4579	5.5011e-01	4.3056e+00
130	IHT000003	129.9917	132.3355	131.1636	5.2050e-01	4.3047e+00
131	IHT000004	141.7931	144.1369	142.9532	5.4163e-01	4.3421e+00
132	IHT000005	139.8625	142.0110	140.8351	4.9676e-01	4.3351e+00
133	IHT000006	134.6417	136.5948	135.5518	5.0163e-01	4.3183e+00
134	IHT000007	128.4743	130.4274	129.3063	4.8618e-01	4.2991e+00
135	IHT000008	127.0583	129.4020	127.9254	5.2372e-01	4.2949e+00
136	IHT000009	127.7268	130.0706	128.7191	5.2916e-01	4.2973e+00
137	IHT000010	117.4955	119.8392	118.6049	5.0291e-01	4.2681e+00
138	IHT000011	115.7602	117.9087	116.8149	4.8488e-01	4.2632e+00
139	IHT000012	113.9836	116.5227	114.9094	5.3932e-01	4.2580e+00
140	IHT000013	93.2505	95.3989	94.1763	4.9569e-01	4.2068e+00
141	IHT000014	120.1134	122.6525	120.9493	4.8172e-01	4.2747e+00
142	IHT000015	97.2055	99.1587	98.1626	4.6228e-01	4.2159e+00
143	IHT000016	86.2192	87.9770	87.0434	4.3636e-01	4.1914e+00
144	IHT000017	103.9814	107.6923	105.8916	1.0008e+00	4.2345e+00
145	IHT000018	106.6181	108.7665	107.5674	5.5525e-01	4.2388e+00
146	IHT000019	113.3714	115.9105	114.5394	5.6011e-01	4.2570e+00
147	IHT000020	117.1725	120.1021	118.4732	5.9006e-01	4.2677e+00
148	IHT000021	-3.0236	0.2967	-1.3752	6.9939e-01	4.1000e+00
149	IHT000022	96.7886	99.5230	98.1480	5.3519e-01	4.2158e+00
150	IHT000023	114.8363	117.1800	115.9613	5.0310e-01	4.2608e+00
151	IHT000024	80.8631	83.0116	81.9061	4.5268e-01	4.1810e+00
152	IHT000025	102.9334	104.6913	103.8631	4.3862e-01	4.2295e+00
153	IHT000026	104.1016	105.6641	105.0625	4.1916e-01	4.2325e+00
154	IHT000027	87.2408	89.1940	88.1861	4.3648e-01	4.1938e+00
155	IHT000028	88.6193	90.9631	89.7521	5.9843e-01	4.1971e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.8349	106.1786	104.9365	5.8495e-01	4.2322e+00
157	IHT000030	106.4002	108.5487	107.3495	5.7183e-01	4.2382e+00
158	IHT000031	95.1547	97.4985	96.2134	6.2152e-01	4.2114e+00
159	IHT000032	95.9886	98.7230	97.2425	6.5565e-01	4.2137e+00
160	IHT000033	95.9736	98.5126	97.2002	6.4723e-01	4.2136e+00
161	IHT000034	88.2474	90.2006	89.2006	5.1696e-01	4.1959e+00
162	IHT000035	116.5978	118.7462	117.3986	5.1031e-01	4.2648e+00
163	IHT000036	86.7525	88.9010	87.8463	5.0686e-01	4.1931e+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 = 0.056999 (ft/sec)
 Velocity 2 = 0.000400 (ft/sec)
 Pressure Drop = 0.015499 (psi)
 Tsat in = 0.029785 (deg F) Tsat out = 0.087189 (deg F)
 Phi inner = 0.795898 (kBtu/hr-ft2) Phi outer = 0.421394 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0426	0.0560
1	TRF000002	0.0043	0.0056
2	TFM000001	0.3500	0.3985
3	TIN000001	0.2629	0.3015
4	TRV000001	0.3697	0.4192
5	TSR000001	0.0394	0.0373
6	TAO020136	0.0023	0.0042
7	TAO050136	0.1578	0.1437
8	TAO070136	0.3419	0.3123
9	TAO080136	9.4891	9.1840
10	TAO090136	0.3081	0.2553
11	TAO100136	0.2190	0.1863
12	TAO105136	0.2317	0.1948
13	TAO110136	0.2651	0.2171
14	TAO115136	0.3588	0.3022
15	TAO120136	0.2510	0.2034
16	TAO125136	0.2084	0.2584
17	TAO130136	0.1993	0.1663
18	TAO120048	0.7427	0.8824
19	TAO130048	0.2715	0.2317
20	TAO120224	0.2600	0.2199
21	TAO130224	0.2786	0.2437
22	TAO120312	0.2490	0.2176
23	TAO130312	0.2397	0.2089
24	TRT020000	0.2427	0.2270
25	TRT070000	0.2758	0.2465
26	TRT100000	0.2393	0.2060
27	TRT120000	0.2723	0.2324
28	TRT125000	0.9342	1.1713
29	TRT130000	0.2149	0.1853
30	EMPTY	0.0046	0.0116
31	TAF050136	0.2764	0.2903
32	TAF070136	0.4183	0.3226
33	TAF080136	0.0791	0.0678
34	TAF090136	0.5513	0.6962
35	TAF100136	0.2846	0.2745
36	TAF105136	0.2360	0.2261
37	TAF110136	0.2327	0.2208
38	TAF115136	0.2989	0.2796
39	TAF120136	0.2271	0.2009
40	TAF125136	0.2845	0.2622
41	TAF130136	0.2737	0.2511
42	TAF120048	0.3397	0.3221
43	TAF130048	0.2829	0.2654
44	TAF120224	0.2625	0.2507
45	TAF130224	0.3473	0.3289

#	Name	Abs Diff	%Diff
46	EMPTY	0.0000	0.0000
47	EMPTY	0.0184	0.0469
48	TAI130048	0.3020	0.2634
49	TAI130136	0.2302	0.1907
50	TAI130224	0.2203	0.1919
51	TAI130312	0.2533	0.2238
52	TRR130000	1.9170	1.8811
53	TSI000001	0.0488	0.0716
54	TSI000002	0.2632	0.3203
55	TSO000001	0.0493	0.0721
56	TSO000002	0.0445	0.0616
57	TAF020136	0.3104	0.3466
58	TAF120312	0.3670	0.3577
59	TAF130312	0.2790	0.2658
60	EMPTY	0.0079	0.9087
61	EMPTY	0.0071	0.8061
62	EMPTY	0.0069	0.7746
63	EMPTY	0.0061	0.6752
64	EMPTY	0.0043	0.7942
65	EMPTY	0.0039	0.6946
66	EMPTY	0.0020	0.3469
67	EMPTY	0.0043	0.7222
68	EMPTY	0.0042	0.6887
69	EMPTY	0.0039	0.6223
70	EMPTY	0.0013	0.2029
71	EMPTY	0.0033	0.4968
72	EMPTY	0.0047	0.6925
73	EMPTY	0.0044	0.6302
74	EMPTY	0.0047	0.6591
75	EMPTY	0.0029	0.3970
76	EMPTY	0.0013	0.1750
77	EMPTY	0.0012	0.1575
78	EMPTY	0.0048	0.6106
79	EMPTY	0.0042	0.5213
80	PAN020136	0.0839	0.1176
81	PAN050136	0.2564	0.1983
82	PAN070136	0.2228	0.2267
83	PAN080136	0.0518	0.1194
84	PAN090136	0.0030	0.0091
85	PAN100136	0.0992	0.2634
86	PAN105136	0.1923	0.9175
87	PAN110136	0.0259	0.0960
88	PAN115136	0.3845	1.2133
89	PAN120136	0.3403	0.9228
90	PAN125136	0.0931	0.4220
91	PAN130136	0.0611	0.5447
92	PAN120048	0.0900	0.3249
93	PAN130048	0.0763	0.1403
94	PAN120224	0.0885	0.1655
95	PAN130224	0.0717	0.1513
96	PAN120312	0.0397	0.1275
97	PAN130312	0.1373	0.2832
98	PAB000136	0.0201	0.0498
99	PAB100136	0.0421	0.1668
100	PAB125136	0.0330	0.1632

#	Name	Abs Diff	%Diff
101	PIN000001	0.0659	0.1639
102	PRV000001	0.0341	0.1730
103	PSR000001	0.0195	0.1113
104	PFM000001	0.4522	0.4328
105	PAN000136	0.4302	0.0759
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.0101
108	EMPTY	0.0583	0.7921
109	EMPTY	0.0011	12.9412
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0016	51.6129
112	VPW000001	0.0469	0.0357
113	VPW000002	0.0508	0.0352
114	VPW000003	0.1367	0.1160
115	VPW000004	0.0586	0.0592
116	VPW000005	0.0586	0.0542
117	VPW000006	0.0234	0.0146
118	IPW000001	5.3489	0.4970
119	IPW000002	12.0980	1.5072
120	IPW000003	9.7890	1.4845
121	IPW000004	0.6543	0.1217
122	IPW000005	2.4120	0.4053
123	IPW000006	1.6894	0.3931
124	EMPTY	0.0018	9.4241
125	EMPTY	0.0006	4.7244
126	EMPTY	0.0013	8.2803
127	EMPTY	0.0006	3.5928
128	IHT000001	0.0664	0.0519
129	IHT000002	0.0117	0.0089
130	IHT000003	0.0430	0.0328
131	IHT000004	0.0313	0.0219
132	IHT000005	0.0000	0.0000
133	IHT000006	0.0273	0.0201
134	IHT000007	0.0039	0.0030
135	IHT000008	0.0391	0.0306
136	IHT000009	0.0547	0.0425
137	IHT000010	0.0196	0.0165
138	IHT000011	0.0196	0.0168
139	IHT000012	0.0039	0.0034
140	IHT000013	0.0429	0.0455
141	IHT000014	0.0274	0.0226
142	IHT000015	0.0781	0.0795
143	IHT000016	0.0703	0.0807
144	IHT000017	0.3554	0.3345
145	IHT000018	0.1562	0.1450
146	IHT000019	0.0430	0.0375
147	IHT000020	0.1719	0.1449
148	IHT000021	0.1407	11.3973
149	IHT000022	0.1328	0.1351
150	IHT000023	0.1836	0.1581
151	IHT000024	0.1015	0.1238
152	IHT000025	0.0664	0.0639
153	IHT000026	0.0547	0.0520
154	IHT000027	0.0508	0.0576
155	IHT000028	0.1407	0.1565

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1484	0.1412
157	IHT000030	0.1718	0.1598
158	IHT000031	0.1406	0.1459
159	IHT000032	0.1054	0.1083
160	IHT000033	0.0898	0.0923
161	IHT000034	0.1641	0.1836
162	IHT000035	0.1484	0.1262
163	IHT000036	0.1015	0.1154

Velocity 1 = 19.9807 (ft/sec) (+/- 1.7205 %)
 Velocity 2 = 13.4134 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 10.3488 (psi)
 Tsat in = 267.7253 (deg F) Tsat out = 250.3848 (deg F)
 Phi inner = 98.1019 (kBtu/hr-ft2) (+/- 1.5907 %)
 Phi outer = 100.8720 (kBtu/hr-ft2) (+/- 1.4810 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	75.7789	76.6311	76.2307	2.0479e-01	1.9000e+00
1	TRF0000002	76.3045	76.7283	76.5715	1.2705e-01	1.9000e+00
2	TFM0000001	85.3379	86.3893	85.8575	2.0969e-01	1.9002e+00
3	TIN0000001	84.6824	85.7361	85.3585	1.8942e-01	1.9002e+00
4	TRV0000001	85.7136	86.5544	86.1524	2.1067e-01	1.9002e+00
5	TSR0000001	104.3228	106.6949	105.5015	5.4985e-01	1.9008e+00
6	TAO020136	53.8900	55.5119	54.8264	3.8742e-01	1.9002e+00
7	TAO050136	113.6768	114.9073	114.2294	2.3792e-01	1.9013e+00
8	TAO070136	112.4186	114.3814	113.3301	4.6512e-01	1.9013e+00
9	TAO080136	79.1997	135.4904	111.6945	1.0261e+01	1.9012e+00
10	TAO090136	126.9310	127.8463	127.4864	1.9530e-01	1.9022e+00
11	TAO100136	123.6645	124.4810	124.0627	1.8822e-01	1.9020e+00
12	TAO105136	124.9454	126.0685	125.6132	2.8153e-01	1.9021e+00
13	TAO110136	128.9853	129.8953	129.3517	1.9835e-01	1.9024e+00
14	TAO115136	125.0171	125.9359	125.4644	1.9342e-01	1.9021e+00
15	TAO120136	130.5630	131.3759	130.9676	2.0478e-01	1.9025e+00
16	TAO125136	119.3215	128.9891	125.3341	1.7804e+00	1.9021e+00
17	TAO130136	126.6686	127.5726	127.0784	2.1152e-01	1.9022e+00
18	TAO120048	84.5871	85.9562	85.3265	3.3439e-01	1.9002e+00
19	TAO130048	123.2743	124.0907	123.6760	1.8369e-01	1.9019e+00
20	TAO120224	124.5351	125.2496	124.8598	1.5542e-01	1.9020e+00
21	TAO130224	119.6621	120.5782	120.1283	2.1282e-01	1.9017e+00
22	TAO120312	119.6697	120.5925	120.2460	2.2682e-01	1.9017e+00
23	TAO130312	119.8651	120.5812	120.2885	1.9504e-01	1.9017e+00
24	TRT020000	109.5408	110.6789	110.0850	2.7399e-01	1.9011e+00
25	TRT070000	115.9909	117.1261	116.6002	2.3873e-01	1.9015e+00
26	TRT100000	121.2984	122.3201	121.8558	2.0867e-01	1.9018e+00
27	TRT120000	123.0190	123.7340	123.4010	1.7740e-01	1.9019e+00
28	TRT125000	79.7840	80.7316	80.2117	1.9681e-01	1.9001e+00
29	TRT130000	121.4976	122.1118	121.7248	1.6053e-01	1.9018e+00
30	EMPTY	39.1464	40.0646	39.6102	2.1499e-01	1.9011e+00
31	TAF050136	95.3270	96.1609	95.7629	1.9148e-01	1.9004e+00
32	TAF070136	131.6116	133.4295	132.4628	4.3300e-01	1.9026e+00
33	TAF080136	121.8966	123.5148	122.7156	4.4759e-01	1.9019e+00
34	TAF090136	78.7433	80.0116	79.4389	2.9666e-01	1.9001e+00
35	TAF100136	106.2244	107.0537	106.6412	2.1719e-01	1.9009e+00
36	TAF105136	107.1891	108.1155	107.6289	2.6095e-01	1.9010e+00
37	TAF110136	108.5755	109.1956	108.8840	1.7630e-01	1.9010e+00
38	TAF115136	110.2070	111.2377	110.7324	2.2156e-01	1.9011e+00
39	TAF120136	118.3494	118.9647	118.6300	1.7782e-01	1.9016e+00
40	TAF125136	112.3364	113.2608	112.7657	2.6052e-01	1.9012e+00
41	TAF130136	113.2479	113.9694	113.5102	1.5324e-01	1.9013e+00
42	TAF120048	108.4565	109.3906	108.8365	2.3034e-01	1.9010e+00
43	TAF130048	110.0872	110.7072	110.4072	1.5798e-01	1.9011e+00
44	TAF120224	107.4667	108.2935	107.9937	1.8115e-01	1.9010e+00
45	TAF130224	108.8497	109.4710	109.1872	1.7489e-01	1.9010e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0710	2.3886e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2567	1.3317e-01	1.9010e+00
48	TAI130048	119.7865	121.4239	120.8652	3.2568e-01	1.9017e+00
49	TAI130136	127.6122	128.4261	127.9357	1.8437e-01	1.9023e+00
50	TAI130224	119.8750	121.1062	120.4270	3.0593e-01	1.9017e+00
51	TAI130312	118.2705	119.1942	118.7448	2.5219e-01	1.9016e+00
52	TRR130000	99.3954	100.6367	99.9930	3.2462e-01	1.9006e+00
53	TSI000001	67.6078	68.4612	68.1432	1.8226e-01	1.9000e+00
54	TSI000002	89.0040	92.8677	91.3633	1.2064e+00	1.9003e+00
55	TSO000001	67.9368	68.7938	68.3247	2.0284e-01	1.9000e+00
56	TSO000002	72.1297	72.9818	72.5875	2.0093e-01	1.9000e+00
57	TAF020136	88.1095	89.0591	88.5127	2.0061e-01	1.9002e+00
58	TAF120312	104.5299	105.8770	105.2862	2.9687e-01	1.9008e+00
59	TAF130312	107.9448	108.6681	108.3354	1.7003e-01	1.9010e+00
60	EMPTY	0.9424	0.9521	0.9456	2.5362e-03	0.0000e+00
61	EMPTY	0.9521	0.9619	0.9568	2.6025e-03	0.0000e+00
62	EMPTY	0.9619	0.9717	0.9664	1.6624e-03	0.0000e+00
63	EMPTY	0.9766	0.9814	0.9787	2.4484e-03	0.0000e+00
64	EMPTY	0.5664	0.5713	0.5705	1.8082e-03	0.0000e+00
65	EMPTY	0.5859	0.5957	0.5908	9.8648e-04	0.0000e+00
66	EMPTY	0.6055	0.6104	0.6058	1.1714e-03	0.0000e+00
67	EMPTY	0.6201	0.6250	0.6242	1.8082e-03	0.0000e+00
68	EMPTY	0.6348	0.6396	0.6391	1.6028e-03	0.0000e+00
69	EMPTY	0.6494	0.6592	0.6548	1.7784e-03	0.0000e+00
70	EMPTY	0.6641	0.6738	0.6695	1.8821e-03	0.0000e+00
71	EMPTY	0.6885	0.6934	0.6932	9.6655e-04	0.0000e+00
72	EMPTY	0.7031	0.7080	0.7064	2.3008e-03	0.0000e+00
73	EMPTY	0.7178	0.7275	0.7263	2.3778e-03	0.0000e+00
74	EMPTY	0.7373	0.7520	0.7416	3.3656e-03	0.0000e+00
75	EMPTY	0.7520	0.7617	0.7570	1.3811e-03	0.0000e+00
76	EMPTY	0.7666	0.7764	0.7716	1.2041e-03	0.0000e+00
77	EMPTY	0.7910	0.7959	0.7911	6.9053e-04	0.0000e+00
78	EMPTY	0.8105	0.8154	0.8121	2.3008e-03	0.0000e+00
79	EMPTY	0.8252	0.8350	0.8344	2.1249e-03	0.0000e+00
80	PAN020136	35.4856	36.7063	36.1738	2.8567e-01	8.7469e-01
81	PAN050136	64.7404	66.4188	65.5247	4.3379e-01	1.6880e+00
82	PAN070136	50.8003	51.9447	51.3664	3.2077e-01	8.7943e-01
83	PAN080136	19.9187	20.9868	20.4085	2.2181e-01	8.7149e-01
84	PAN090136	17.0371	17.7238	17.3804	1.7250e-01	8.7108e-01
85	PAN100136	17.1061	17.7928	17.5242	1.6475e-01	8.7110e-01
86	PAN105136	9.2353	9.7693	9.4474	1.5203e-01	8.7032e-01
87	PAN110136	12.9957	13.6824	13.3162	1.2617e-01	8.7064e-01
88	PAN115136	17.6173	18.3040	18.0095	1.3873e-01	8.7116e-01
89	PAN120136	19.1917	19.6495	19.3977	1.3011e-01	8.7135e-01
90	PAN125136	11.2864	11.8205	11.5977	1.0206e-01	8.7048e-01
91	PAN130136	3.9197	4.3775	4.1288	9.4779e-02	8.7006e-01
92	PAN120048	11.9270	12.6899	12.2626	1.6744e-01	8.7054e-01
93	PAN130048	28.3287	29.0917	28.6934	1.6835e-01	8.7295e-01
94	PAN120224	27.1549	27.9178	27.5730	1.8576e-01	8.7273e-01
95	PAN130224	24.2602	24.9469	24.6890	1.7702e-01	8.7219e-01
96	PAN120312	13.9693	14.6560	14.3630	1.5595e-01	8.7074e-01
97	PAN130312	24.5726	25.3356	24.9434	1.6313e-01	8.7223e-01
98	PAB000136	40.0450	40.4570	40.2400	9.0995e-02	5.8866e-01
99	PAB100136	32.4487	32.6776	32.5531	5.5520e-02	5.8568e-01
100	PAB125136	29.8800	30.0631	29.9670	4.2632e-02	5.8482e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.5925	40.3249	40.0124	1.8150e-01	7.5664e-01
102	PRV000001	19.7186	19.8406	19.8235	4.2787e-02	7.5164e-01
103	PSR000001	28.2140	28.5802	28.4337	9.2276e-02	7.5336e-01
104	PFM000001	60.8755	62.0657	61.4559	2.9917e-01	5.2307e-01
105	PAN000136	281.1113	291.1821	286.5129	2.3813e+00	4.9719e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0146	0.0092	1.8821e-03	0.0000e+00
108	EMPTY	-10.0000	-5.0098	-8.2148	1.9022e+00	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	0.0005	1.4797e-03	0.0000e+00
112	VPW000001	131.3702	131.7608	131.5303	1.2283e-01	1.1309e+00
113	VPW000002	144.0580	144.4486	144.3315	1.0440e-01	1.1858e+00
114	VPW000003	117.4579	118.0439	117.7158	1.2750e-01	1.0747e+00
115	VPW000004	98.7943	99.3802	99.0522	1.0763e-01	1.0046e+00
116	VPW000005	107.6923	108.0829	108.0166	1.0145e-01	1.0374e+00
117	VPW000006	159.7318	160.3178	160.0444	1.2478e-01	1.2563e+00
118	IPW000001	1077.3933	1089.1074	1082.2351	3.0614e+00	1.1777e+01
119	IPW000002	771.9898	785.6487	776.0096	3.4006e+00	1.0158e+01
120	IPW000003	635.7375	639.6375	638.3503	1.3424e+00	9.5416e+00
121	IPW000004	537.2126	538.6774	537.9257	3.8473e-01	4.6967e+00
122	IPW000005	589.3060	590.2824	589.8530	3.2174e-01	5.0709e+00
123	IPW000006	425.6591	428.5888	427.1433	8.3682e-01	3.9226e+00
124	EMPTY	-0.0293	-0.0146	-0.0229	3.4527e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0131	3.3366e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0187	3.0708e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.0581e-03	0.0000e+00
128	IHT000001	126.7728	129.3119	127.8120	5.8052e-01	4.2946e+00
129	IHT000002	130.4500	132.7937	131.5008	5.3654e-01	4.3057e+00
130	IHT000003	130.3824	132.3355	131.2691	4.8842e-01	4.3050e+00
131	IHT000004	141.5978	144.1369	142.9376	5.0841e-01	4.3420e+00
132	IHT000005	139.4719	141.8157	140.8273	4.9507e-01	4.3351e+00
133	IHT000006	134.2511	136.7901	135.5869	4.9656e-01	4.3184e+00
134	IHT000007	128.2790	130.4274	129.3688	4.7693e-01	4.2993e+00
135	IHT000008	127.0583	129.2067	127.9996	4.6969e-01	4.2952e+00
136	IHT000009	127.9222	130.2659	128.8597	4.7351e-01	4.2977e+00
137	IHT000010	117.3002	119.6439	118.5306	5.2682e-01	4.2679e+00
138	IHT000011	115.7602	118.1040	116.7954	5.1788e-01	4.2631e+00
139	IHT000012	113.7883	116.1321	114.9445	5.7296e-01	4.2581e+00
140	IHT000013	92.8598	95.3989	94.0981	5.3468e-01	4.2066e+00
141	IHT000014	119.9181	122.4572	120.9767	5.4117e-01	4.2748e+00
142	IHT000015	97.2055	99.3540	98.1352	5.2134e-01	4.2158e+00
143	IHT000016	86.2192	88.3676	87.0395	4.9126e-01	4.1914e+00
144	IHT000017	103.3954	106.9111	104.7822	7.8448e-01	4.2318e+00
145	IHT000018	106.4228	108.7665	107.4424	5.7085e-01	4.2384e+00
146	IHT000019	113.3714	115.7151	114.4964	5.4613e-01	4.2569e+00
147	IHT000020	117.3678	119.3209	118.3951	5.3205e-01	4.2675e+00
148	IHT000021	-2.8283	-0.2892	-1.4845	6.4554e-01	4.1000e+00
149	IHT000022	96.9839	99.1324	98.0152	5.1454e-01	4.2155e+00
150	IHT000023	115.0316	116.9847	115.9339	4.9582e-01	4.2608e+00
151	IHT000024	81.0584	83.2069	81.8475	4.6347e-01	4.1809e+00
152	IHT000025	102.7381	105.2772	103.6717	4.8213e-01	4.2290e+00
153	IHT000026	103.9063	106.6406	104.8242	5.1031e-01	4.2319e+00
154	IHT000027	87.2408	89.7799	88.1314	5.1017e-01	4.1937e+00
155	IHT000028	88.8146	90.9631	89.7795	5.1661e-01	4.1971e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.8349	106.1786	104.8505	4.8004e-01	4.2319e+00
157	IHT000030	106.2049	108.5487	107.2245	4.7726e-01	4.2379e+00
158	IHT000031	95.1547	97.4985	96.1235	4.6682e-01	4.2112e+00
159	IHT000032	96.1839	98.3323	97.1565	4.9676e-01	4.2135e+00
160	IHT000033	95.9736	98.3173	97.1298	4.9417e-01	4.2135e+00
161	IHT000034	88.6381	90.5912	89.3725	4.0349e-01	4.1963e+00
162	IHT000035	116.5978	118.5509	117.4884	4.0464e-01	4.2650e+00
163	IHT000036	87.1432	89.0963	87.9986	4.0219e-01	4.1934e+00

Velocity 1 = 19.9634 (ft/sec) (+/- 1.7207 %)
 Velocity 2 = 13.4147 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 10.2834 (psi)
 Tsat in = 267.4220 (deg F) Tsat out = 250.1521 (deg F)
 Phi inner = 99.8604 (kBtu/hr-ft2) (+/- 1.5779 %)
 Phi outer = 101.8025 (kBtu/hr-ft2) (+/- 1.4760 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.9920	76.6311	76.2221	1.7130e-01	1.9000e+00
1	TRF000002	76.3045	76.7283	76.5799	1.2294e-01	1.9000e+00
2	TFM000001	86.5984	87.4379	87.0372	1.9403e-01	1.9002e+00
3	TIN000001	86.1562	86.7887	86.4408	1.4473e-01	1.9002e+00
4	TRV000001	86.7602	87.7038	87.3282	1.9176e-01	1.9002e+00
5	TSR000001	106.7969	107.5196	107.2560	1.7333e-01	1.9009e+00
6	TAO020136	54.3227	56.5908	55.4832	5.1491e-01	1.9001e+00
7	TAO050136	114.8023	115.6234	115.1735	1.7441e-01	1.9014e+00
8	TAO070136	113.1427	116.4438	114.6145	6.3883e-01	1.9013e+00
9	TAO080136	82.7631	138.7046	108.9082	1.3285e+01	1.9010e+00
10	TAO090136	128.1499	128.9622	128.5375	2.0068e-01	1.9023e+00
11	TAO100136	124.7848	125.2952	125.0441	1.4456e-01	1.9020e+00
12	TAO105136	126.1698	126.9865	126.6413	2.0906e-01	1.9022e+00
13	TAO110136	129.9923	130.9016	130.3785	1.7062e-01	1.9025e+00
14	TAO115136	126.1395	127.0566	126.5737	1.9625e-01	1.9022e+00
15	TAO120136	131.6702	132.3900	132.0144	1.6433e-01	1.9026e+00
16	TAO125136	85.8927	87.5713	86.7132	4.0843e-01	1.9002e+00
17	TAO130136	127.7701	128.3744	128.1209	1.5846e-01	1.9023e+00
18	TAO120048	84.6929	85.7454	85.2046	3.0498e-01	1.9002e+00
19	TAO130048	124.2912	125.1064	124.7042	1.5469e-01	1.9020e+00
20	TAO120224	125.5539	126.2678	125.9272	1.6167e-01	1.9021e+00
21	TAO130224	120.8781	121.5909	121.2183	1.7374e-01	1.9018e+00
22	TAO120312	121.0013	121.7190	121.3192	1.5244e-01	1.9018e+00
23	TAO130312	121.0891	121.9073	121.4183	1.5077e-01	1.9018e+00
24	TRT020000	110.6790	111.4023	111.0695	2.0388e-01	1.9011e+00
25	TRT070000	117.1272	118.0550	117.6408	1.9588e-01	1.9015e+00
26	TRT100000	122.6236	123.2355	122.9475	1.6186e-01	1.9019e+00
27	TRT120000	124.1407	124.7527	124.4444	1.5231e-01	1.9020e+00
28	TRT125000	79.6803	80.4181	79.9640	1.5966e-01	1.9001e+00
29	TRT130000	122.5167	123.0278	122.7763	1.4182e-01	1.9019e+00
30	EMPTY	39.1464	40.2940	39.6424	2.2888e-01	1.9011e+00
31	TAF050136	96.4701	97.1991	96.8761	1.7107e-01	1.9005e+00
32	TAF070136	134.1315	137.0500	135.2817	5.9196e-01	1.9029e+00
33	TAF080136	123.2107	124.5273	123.8497	3.1457e-01	1.9020e+00
34	TAF090136	78.6388	79.9061	79.2573	2.8163e-01	1.9001e+00
35	TAF100136	107.3641	108.0893	107.8097	1.4535e-01	1.9010e+00
36	TAF105136	108.3175	109.3462	108.7267	2.6259e-01	1.9010e+00
37	TAF110136	109.7068	110.4280	110.0387	1.5480e-01	1.9011e+00
38	TAF115136	111.4405	112.4702	111.8174	2.1363e-01	1.9012e+00
39	TAF120136	119.5725	120.1872	119.8040	1.5291e-01	1.9017e+00
40	TAF125136	113.4599	114.2779	113.9083	2.2096e-01	1.9013e+00
41	TAF130136	114.3769	114.9945	114.7120	1.4210e-01	1.9013e+00
42	TAF120048	109.5991	110.4288	109.9997	2.3712e-01	1.9011e+00
43	TAF130048	111.3225	111.8384	111.6052	1.4848e-01	1.9012e+00
44	TAF120224	108.8072	109.6337	109.1893	1.8903e-01	1.9010e+00
45	TAF130224	110.1964	110.6109	110.3397	1.1237e-01	1.9011e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0710	1.9948e-01	1.9010e+00
47	EMPTY	39.1464	39.8352	39.3715	1.2695e-01	1.9010e+00
48	TAI130048	121.2194	122.6497	121.9485	3.2384e-01	1.9018e+00
49	TAI130136	128.6257	129.5380	129.0988	2.0260e-01	1.9024e+00
50	TAI130224	121.1056	122.1308	121.6407	2.9808e-01	1.9018e+00
51	TAI130312	119.5009	120.4237	119.9215	2.1745e-01	1.9017e+00
52	TRR130000	97.5283	100.9480	99.3467	9.1663e-01	1.9006e+00
53	TSI000001	67.9279	68.5683	68.3006	1.5876e-01	1.9000e+00
54	TSI000002	88.5869	92.4519	90.7079	1.0107e+00	1.9003e+00
55	TSO000001	68.0435	68.6876	68.3847	1.6997e-01	1.9000e+00
56	TSO000002	72.3424	73.1943	72.7958	2.0254e-01	1.9000e+00
57	TAF020136	89.2711	90.0098	89.6615	1.8107e-01	1.9003e+00
58	TAF120312	105.7724	106.9097	106.3205	2.6780e-01	1.9009e+00
59	TAF130312	109.2854	110.0079	109.6048	1.6457e-01	1.9011e+00
60	EMPTY	0.9717	0.9766	0.9730	2.2146e-03	0.0000e+00
61	EMPTY	0.9766	0.9863	0.9828	2.4244e-03	0.0000e+00
62	EMPTY	0.9912	0.9961	0.9926	2.2146e-03	0.0000e+00
63	EMPTY	1.0010	1.0059	1.0052	1.7115e-03	0.0000e+00
64	EMPTY	0.5811	0.5859	0.5813	9.6655e-04	0.0000e+00
65	EMPTY	0.6006	0.6055	0.6019	2.1635e-03	0.0000e+00
66	EMPTY	0.6152	0.6201	0.6185	2.3365e-03	0.0000e+00
67	EMPTY	0.6299	0.6396	0.6361	2.6174e-03	0.0000e+00
68	EMPTY	0.6445	0.6543	0.6494	9.8648e-04	0.0000e+00
69	EMPTY	0.6641	0.6689	0.6684	1.6028e-03	0.0000e+00
70	EMPTY	0.6787	0.6885	0.6829	1.9754e-03	0.0000e+00
71	EMPTY	0.7031	0.7080	0.7036	1.4797e-03	0.0000e+00
72	EMPTY	0.7129	0.7178	0.7176	9.6655e-04	0.0000e+00
73	EMPTY	0.7324	0.7422	0.7373	9.8648e-04	0.0000e+00
74	EMPTY	0.7471	0.7520	0.7518	9.6655e-04	0.0000e+00
75	EMPTY	0.7666	0.7715	0.7688	2.4583e-03	0.0000e+00
76	EMPTY	0.7764	0.7861	0.7817	1.7784e-03	0.0000e+00
77	EMPTY	0.8008	0.8057	0.8009	6.9053e-04	0.0000e+00
78	EMPTY	0.8203	0.8252	0.8246	1.6028e-03	0.0000e+00
79	EMPTY	0.8447	0.8496	0.8448	6.9053e-04	0.0000e+00
80	PAN020136	35.7145	36.3248	36.0059	1.5921e-01	8.7464e-01
81	PAN050136	64.4352	65.8085	65.1249	3.6637e-01	1.6879e+00
82	PAN070136	50.4189	51.4107	50.8919	2.3427e-01	8.7925e-01
83	PAN080136	19.8424	20.7580	20.2941	1.7153e-01	8.7148e-01
84	PAN090136	17.0371	17.6475	17.3377	1.3385e-01	8.7108e-01
85	PAN100136	16.8772	17.7165	17.2557	1.8686e-01	8.7107e-01
86	PAN105136	9.0827	9.6930	9.4260	1.4064e-01	8.7032e-01
87	PAN110136	13.2246	13.6061	13.3482	8.1401e-02	8.7064e-01
88	PAN115136	17.6173	18.0751	17.8493	1.2613e-01	8.7114e-01
89	PAN120136	19.0391	19.4206	19.2665	8.5111e-02	8.7133e-01
90	PAN125136	11.2101	11.7442	11.5061	1.0750e-01	8.7048e-01
91	PAN130136	3.9197	4.3775	4.1288	1.1201e-01	8.7006e-01
92	PAN120048	11.8507	12.3847	12.1162	1.4723e-01	8.7053e-01
93	PAN130048	28.1761	28.8628	28.5210	1.5661e-01	8.7292e-01
94	PAN120224	27.0786	27.7652	27.3761	1.5510e-01	8.7269e-01
95	PAN130224	24.1839	24.8706	24.5333	1.5266e-01	8.7216e-01
96	PAN120312	13.9693	14.4271	14.2470	1.2015e-01	8.7073e-01
97	PAN130312	24.4200	25.0304	24.7710	1.5944e-01	8.7220e-01
98	PAB000136	39.8619	40.1823	40.0358	7.9017e-02	5.8857e-01
99	PAB100136	32.3572	32.4945	32.4185	4.3975e-02	5.8564e-01
100	PAB125136	29.6969	29.9258	29.8470	4.8972e-02	5.8478e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.7146	40.4470	40.1443	1.8495e-01	7.5669e-01
102	PRV0000001	19.8406	19.9627	19.8773	5.6508e-02	7.5164e-01
103	PSR0000001	28.2140	28.4581	28.4117	6.4735e-02	7.5336e-01
104	PFM0000001	60.6008	62.0657	61.3369	3.8708e-01	5.2299e-01
105	PAN000136	280.6535	288.4355	284.7001	1.9843e+00	4.9712e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0146	0.0084	2.4244e-03	0.0000e+00
108	EMPTY	-10.0000	-0.0684	-7.5579	2.5653e+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	0.0098	0.0002	1.3811e-03	0.0000e+00
112	VPW0000001	131.3702	131.7608	131.4561	1.0559e-01	1.1306e+00
113	VPW0000002	144.0580	144.8393	144.3862	1.5505e-01	1.1860e+00
114	VPW0000003	117.4579	117.8485	117.7197	1.0145e-01	1.0747e+00
115	VPW0000004	98.7943	99.1849	98.9819	1.0410e-01	1.0044e+00
116	VFW0000005	107.6923	108.2783	108.0400	9.8963e-02	1.0375e+00
117	VPW0000006	159.9271	160.3178	160.1108	1.3901e-01	1.2566e+00
118	IPW0000001	1075.4410	1081.2980	1077.9009	1.5683e+00	1.1753e+01
119	IPW0000002	799.3076	805.1614	802.7029	1.6637e+00	1.0287e+01
120	IPW0000003	659.1375	664.9875	662.0625	1.1982e+00	9.6419e+00
121	IPW0000004	534.7712	536.7243	535.8456	5.5804e-01	4.6819e+00
122	IPW0000005	594.1883	595.1647	594.6372	3.3940e-01	5.1057e+00
123	IPW0000006	428.5888	430.5420	429.4871	3.8662e-01	3.9385e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	3.5786e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.6100e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0189	3.6433e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	3.2851e-03	0.0000e+00
128	IHT0000001	126.7728	129.7025	127.8745	6.1353e-01	4.2948e+00
129	IHT0000002	130.2547	133.1844	131.4813	5.9325e-01	4.3057e+00
130	IHT0000003	130.1870	132.9214	131.3394	5.7216e-01	4.3052e+00
131	IHT0000004	141.7931	144.3322	142.9884	5.2592e-01	4.3422e+00
132	IHT0000005	139.6672	142.2063	140.8859	5.1078e-01	4.3353e+00
133	IHT0000006	134.4464	136.7901	135.5713	5.4184e-01	4.3183e+00
134	IHT0000007	128.4743	130.8181	129.3883	5.3151e-01	4.2993e+00
135	IHT0000008	127.0583	129.4020	128.0074	4.7352e-01	4.2952e+00
136	IHT0000009	127.7268	130.2659	128.7972	5.0260e-01	4.2975e+00
137	IHT0000010	117.3002	119.8392	118.5931	5.5086e-01	4.2681e+00
138	IHT0000011	115.5649	118.1040	116.8579	5.2924e-01	4.2633e+00
139	IHT0000012	113.5930	116.3274	114.9914	5.8309e-01	4.2582e+00
140	IHT0000013	93.0552	95.2036	94.2192	5.4098e-01	4.2069e+00
141	IHT0000014	119.9181	122.0666	121.0431	5.2875e-01	4.2749e+00
142	IHT0000015	97.2055	99.3540	98.1587	5.4625e-01	4.2159e+00
143	IHT0000016	86.2192	88.1723	87.1020	4.8043e-01	4.1915e+00
144	IHT0000017	104.3720	107.6923	105.9853	6.9229e-01	4.2348e+00
145	IHT0000018	106.6181	108.7665	107.6338	5.7182e-01	4.2389e+00
146	IHT0000019	113.5667	115.9105	114.6449	5.5136e-01	4.2573e+00
147	IHT0000020	117.5631	119.7115	118.4654	5.0206e-01	4.2677e+00
148	IHT0000021	-2.4377	-0.0939	-1.3830	5.8793e-01	4.1000e+00
149	IHT0000022	97.1793	99.3277	98.1363	4.8528e-01	4.2158e+00
150	IHT0000023	115.0316	117.1800	116.0043	4.9204e-01	4.2610e+00
151	IHT0000024	81.0584	82.8162	81.9295	4.9632e-01	4.1811e+00
152	IHT0000025	102.9334	104.8866	103.8319	5.3959e-01	4.2294e+00
153	IHT0000026	104.1016	106.2500	105.0391	5.4818e-01	4.2324e+00
154	IHT0000027	87.2408	89.3893	88.2408	5.4052e-01	4.1939e+00
155	IHT0000028	89.0099	90.9631	89.8068	5.4937e-01	4.1972e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.2255	106.1786	104.9170	5.1932e-01	4.2321e+00
157	IHT000030	106.4002	108.5487	107.2674	5.2223e-01	4.2380e+00
158	IHT000031	95.3500	97.1079	96.1704	4.4117e-01	4.2113e+00
159	IHT000032	96.3792	98.3323	97.1995	4.4817e-01	4.2136e+00
160	IHT000033	96.3642	98.3173	97.1572	4.5577e-01	4.2135e+00
161	IHT000034	88.4428	89.8099	89.1811	3.4690e-01	4.1959e+00
162	IHT000035	116.5978	118.1603	117.3908	3.5384e-01	4.2647e+00
163	IHT000036	86.7525	88.5104	87.8970	3.4627e-01	4.1932e+00

Velocity 1 = 0.017300 (ft/sec)

Velocity 2 = 0.001300 (ft/sec)

Pressure Drop = 0.065400 (psi)

Tsat in = 0.303314 (deg F) Tsat out = 0.232697 (deg F)

Phi inner = 1.758499 (kBtu/hr-ft2) Phi outer = 0.930496 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0086	0.0113
1	TRF000002	0.0084	0.0110
2	TFM000001	1.1797	1.3740
3	TIN000001	1.0823	1.2680
4	TRV000001	1.1758	1.3648
5	TSR000001	1.7545	1.6630
6	TAO020136	0.6568	1.1980
7	TAO050136	0.9441	0.8265
8	TAO070136	1.2844	1.1333
9	TAO080136	2.7863	2.4946
10	TAO090136	1.0511	0.8245
11	TAO100136	0.9814	0.7911
12	TAO105136	1.0281	0.8185
13	TAO110136	1.0268	0.7938
14	TAO115136	1.1093	0.8842
15	TAO120136	1.0468	0.7993
16	TAO125136	38.6209	30.8144
17	TAO130136	1.0425	0.8204
18	TAO120048	0.1219	0.1429
19	TAO130048	1.0282	0.8314
20	TAO120224	1.0674	0.8549
21	TAO130224	1.0900	0.9074
22	TAO120312	1.0732	0.8925
23	TAO130312	1.1298	0.9392
24	TRT020000	0.9845	0.8943
25	TRT070000	1.0406	0.8925
26	TRT100000	1.0917	0.8959
27	TRT120000	1.0434	0.8455
28	TRT125000	0.2477	0.3088
29	TRT130000	1.0515	0.8638
30	EMPTY	0.0322	0.0813
31	TAF050136	1.1132	1.1625
32	TAF070136	2.8189	2.1281
33	TAF080136	1.1341	0.9242
34	TAF090136	0.1816	0.2286
35	TAF100136	1.1685	1.0957
36	TAF105136	1.0978	1.0200
37	TAF110136	1.1547	1.0605
38	TAF115136	1.0850	0.9798
39	TAF120136	1.1740	0.9896
40	TAF125136	1.1426	1.0133
41	TAF130136	1.2018	1.0588
42	TAF120048	1.1632	1.0688
43	TAF130048	1.1980	1.0851
44	TAF120224	1.1956	1.1071
45	TAF130224	1.1525	1.0555

#	Name	Abs Diff	%Diff
46	EMPTY	0.0000	0.0000
47	EMPTY	0.1148	0.2924
48	TAI130048	1.0833	0.8963
49	TAI130136	1.1631	0.9091
50	TAI130224	1.2137	1.0078
51	TAI130312	1.1767	0.9910
52	TRR130000	0.6463	0.6463
53	TSI000001	0.1574	0.2310
54	TSI000002	0.6554	0.7174
55	TSO000001	0.0600	0.0878
56	TSO000002	0.2083	0.2870
57	TAF020136	1.1488	1.2979
58	TAF120312	1.0343	0.9824
59	TAF130312	1.2694	1.1717
60	EMPTY	0.0274	2.8976
61	EMPTY	0.0260	2.7174
62	EMPTY	0.0262	2.7111
63	EMPTY	0.0265	2.7077
64	EMPTY	0.0108	1.8931
65	EMPTY	0.0111	1.8788
66	EMPTY	0.0127	2.0964
67	EMPTY	0.0119	1.9064
68	EMPTY	0.0103	1.6116
69	EMPTY	0.0136	2.0770
70	EMPTY	0.0134	2.0015
71	EMPTY	0.0104	1.5003
72	EMPTY	0.0112	1.5855
73	EMPTY	0.0110	1.5145
74	EMPTY	0.0102	1.3754
75	EMPTY	0.0118	1.5588
76	EMPTY	0.0101	1.3090
77	EMPTY	0.0098	1.2388
78	EMPTY	0.0125	1.5392
79	EMPTY	0.0104	1.2464
80	PAN020136	0.1679	0.4641
81	PAN050136	0.3998	0.6101
82	PAN070136	0.4745	0.9238
83	PAN080136	0.1144	0.5606
84	PAN090136	0.0427	0.2457
85	PAN100136	0.2685	1.5322
86	PAN105136	0.0214	0.2265
87	PAN110136	0.0320	0.2403
88	PAN115136	0.1602	0.8895
89	PAN120136	0.1312	0.6764
90	PAN125136	0.0916	0.7898
91	PAN130136	0.0000	0.0000
92	PAN120048	0.1464	1.1939
93	PAN130048	0.1724	0.6008
94	PAN120224	0.1969	0.7141
95	PAN130224	0.1557	0.6306
96	PAN120312	0.1160	0.8076
97	PAN130312	0.1724	0.6912
98	PAB000136	0.2042	0.5075
99	PAB100136	0.1346	0.4135
100	PAB125136	0.1200	0.4004

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1319	0.3296
102	PRV000001	0.0538	0.2714
103	PSR000001	0.0220	0.0774
104	PFM000001	0.1190	0.1936
105	PAN000136	1.8128	0.6327
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0008	8.6957
108	EMPTY	0.6569	7.9965
109	EMPTY	0.0002	3.9216
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	60.0000
112	VPW000001	0.0742	0.0564
113	VPW000002	0.0547	0.0379
114	VPW000003	0.0039	0.0033
115	VPW000004	0.0703	0.0710
116	VPW000005	0.0234	0.0217
117	VPW000006	0.0664	0.0415
118	IPW000001	4.3342	0.4005
119	IPW000002	26.6933	3.4398
120	IPW000003	23.7122	3.7146
121	IPW000004	2.0801	0.3867
122	IPW000005	4.7842	0.8111
123	IPW000006	2.3438	0.5487
124	EMPTY	0.0012	5.2402
125	EMPTY	0.0006	4.5802
126	EMPTY	0.0002	1.0695
127	EMPTY	0.0004	2.4540
128	IHT000001	0.0625	0.0489
129	IHT000002	0.0195	0.0148
130	IHT000003	0.0703	0.0536
131	IHT000004	0.0508	0.0355
132	IHT000005	0.0586	0.0416
133	IHT000006	0.0156	0.0115
134	IHT000007	0.0195	0.0151
135	IHT000008	0.0078	0.0061
136	IHT000009	0.0625	0.0485
137	IHT000010	0.0625	0.0527
138	IHT000011	0.0625	0.0535
139	IHT000012	0.0469	0.0408
140	IHT000013	0.1211	0.1287
141	IHT000014	0.0664	0.0549
142	IHT000015	0.0235	0.0239
143	IHT000016	0.0625	0.0718
144	IHT000017	1.2031	1.1482
145	IHT000018	0.1914	0.1781
146	IHT000019	0.1485	0.1297
147	IHT000020	0.0703	0.0594
148	IHT000021	0.1015	6.8373
149	IHT000022	0.1211	0.1236
150	IHT000023	0.0704	0.0607
151	IHT000024	0.0820	0.1002
152	IHT000025	0.1602	0.1545
153	IHT000026	0.2149	0.2050
154	IHT000027	0.1094	0.1241
155	IHT000028	0.0273	0.0304

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0665	0.0634
157	IHT000030	0.0429	0.0400
158	IHT000031	0.0469	0.0488
159	IHT000032	0.0430	0.0443
160	IHT000033	0.0274	0.0282
161	IHT000034	0.1914	0.2142
162	IHT000035	0.0976	0.0831
163	IHT000036	0.1016	0.1154

Velocity 1 = 13.9009 (ft/sec) (+/- 1.8726 %)
 Velocity 2 = 13.4135 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 2.5648 (psi)
 Tsat in = 267.3005 (deg F) Tsat out = 263.2042 (deg F)
 Phi inner = 98.4054 (kBtu/hr-ft2) (+/- 1.5925 %)
 Phi outer = 100.8580 (kBtu/hr-ft2) (+/- 1.4796 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.9920	76.6311	76.3542	1.7874e-01	1.9000e+00
1	TRF000002	76.5164	77.1519	76.7198	1.4801e-01	1.9000e+00
2	TFM000001	85.5488	86.3901	85.9504	2.2839e-01	1.9002e+00
3	TIN000001	84.9982	85.7356	85.3712	1.6382e-01	1.9002e+00
4	TRV000001	85.8193	86.7636	86.2370	2.1444e-01	1.9002e+00
5	TSR000001	108.2370	108.9589	108.6431	1.7229e-01	1.9010e+00
6	TAO020136	57.1306	58.9635	58.0859	3.7218e-01	1.9001e+00
7	TAO050136	124.2707	125.3887	125.0243	2.1929e-01	1.9020e+00
8	TAO070136	123.9455	125.7876	124.9058	4.6928e-01	1.9020e+00
9	TAO080136	91.7411	134.3867	109.5315	9.1814e+00	1.9011e+00
10	TAO090136	142.2757	143.0788	142.6759	1.8223e-01	1.9036e+00
11	TAO100136	138.6566	139.3629	138.9331	1.7149e-01	1.9032e+00
12	TAO105136	139.9676	140.7755	140.4099	2.0688e-01	1.9033e+00
13	TAO110136	145.3044	146.0049	145.6510	1.5814e-01	1.9039e+00
14	TAO115136	140.7388	141.7467	141.2329	2.1395e-01	1.9034e+00
15	TAO120136	146.7056	147.5086	147.0614	1.8271e-01	1.9040e+00
16	TAO125136	93.6303	94.9865	94.2834	2.9252e-01	1.9004e+00
17	TAO130136	143.1152	143.6165	143.4058	1.4048e-01	1.9036e+00
18	TAO120048	85.6397	86.7965	86.2810	3.3857e-01	1.9002e+00
19	TAO130048	138.3372	138.8425	138.6543	1.5262e-01	1.9032e+00
20	TAO120224	139.6340	140.3404	140.0556	1.7962e-01	1.9033e+00
21	TAO130224	133.4783	134.3853	133.9321	2.2863e-01	1.9028e+00
22	TAO120312	133.9402	134.6501	134.2548	1.8356e-01	1.9028e+00
23	TAO130312	133.2675	133.8750	133.5973	1.7215e-01	1.9027e+00
24	TRT020000	118.4110	119.3358	118.8979	1.9558e-01	1.9016e+00
25	TRT070000	127.9219	128.6374	128.2917	1.9023e-01	1.9023e+00
26	TRT100000	134.7843	135.6938	135.2113	2.0134e-01	1.9029e+00
27	TRT120000	137.4188	138.2266	137.9254	1.8306e-01	1.9031e+00
28	TRT125000	79.2603	79.9984	79.5831	1.8116e-01	1.9001e+00
29	TRT130000	134.8870	135.4939	135.1841	1.5889e-01	1.9029e+00
30	EMPTY	39.1464	40.0646	39.6240	2.2643e-01	1.9011e+00
31	TAF050136	99.7898	100.6200	100.1902	1.7555e-01	1.9006e+00
32	TAF070136	139.8575	149.2467	144.5249	2.2698e+00	1.9037e+00
33	TAF080136	135.9097	137.7164	136.7868	3.3848e-01	1.9030e+00
34	TAF090136	79.0608	80.2228	79.6632	2.5276e-01	1.9001e+00
35	TAF100136	115.2126	116.2417	115.6795	2.1736e-01	1.9014e+00
36	TAF105136	115.9758	117.0987	116.6065	2.7937e-01	1.9015e+00
37	TAF110136	118.4090	119.1253	118.8936	1.5862e-01	1.9016e+00
38	TAF115136	120.8591	121.6764	121.3512	2.1812e-01	1.9018e+00
39	TAF120136	131.8424	132.9541	132.1489	2.0485e-01	1.9026e+00
40	TAF125136	123.8261	124.8398	124.3950	2.5797e-01	1.9020e+00
41	TAF130136	125.1996	125.8105	125.5065	1.6015e-01	1.9021e+00
42	TAF120048	118.2924	119.2194	118.7598	2.1750e-01	1.9016e+00
43	TAF130048	120.6520	121.3689	121.0555	1.5815e-01	1.9018e+00
44	TAF120224	117.3323	118.0503	117.7772	1.8009e-01	1.9015e+00
45	TAF130224	119.3842	119.8986	119.6127	1.4576e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1400	1.7923e-01	1.9010e+00
47	EMPTY	39.1464	39.8352	39.3944	1.4550e-01	1.9010e+00
48	TAI130048	135.2487	136.6642	135.8941	2.8522e-01	1.9029e+00
49	TAI130136	144.3366	144.9389	144.6836	1.8929e-01	1.9038e+00
50	TAI130224	133.2467	134.5665	133.8497	3.2066e-01	1.9027e+00
51	TAI130312	132.0466	132.9605	132.5400	2.2285e-01	1.9026e+00
52	TRR130000	98.9821	100.5338	99.5757	3.2740e-01	1.9006e+00
53	TSI000001	67.8218	68.6738	68.2928	2.1335e-01	1.9000e+00
54	TSI000002	89.1089	93.5992	91.2722	1.1583e+00	1.9003e+00
55	TSO000001	67.9363	68.7938	68.3887	2.0677e-01	1.9000e+00
56	TSO000002	72.9807	73.9369	73.4720	2.1788e-01	1.9000e+00
57	TAF020136	89.6934	90.6418	90.0323	2.1840e-01	1.9003e+00
58	TAF120312	113.6087	114.5353	114.0064	2.3881e-01	1.9013e+00
59	TAF130312	118.1140	118.9331	118.5954	1.8545e-01	1.9016e+00
60	EMPTY	1.1768	1.1865	1.1824	2.2839e-03	0.0000e+00
61	EMPTY	1.1865	1.1963	1.1913	1.2041e-03	0.0000e+00
62	EMPTY	1.1963	1.2061	1.1989	2.6488e-03	0.0000e+00
63	EMPTY	1.2061	1.2109	1.2103	1.7115e-03	0.0000e+00
64	EMPTY	0.6738	0.6787	0.6740	9.6655e-04	0.0000e+00
65	EMPTY	0.6934	0.6982	0.6942	1.8950e-03	0.0000e+00
66	EMPTY	0.7080	0.7129	0.7089	1.8950e-03	0.0000e+00
67	EMPTY	0.7227	0.7324	0.7276	1.2041e-03	0.0000e+00
68	EMPTY	0.7373	0.7422	0.7411	2.0432e-03	0.0000e+00
69	EMPTY	0.7568	0.7568	0.7568	0.0000e+00	0.0000e+00
70	EMPTY	0.7666	0.7764	0.7715	1.3951e-03	0.0000e+00
71	EMPTY	0.7910	0.8008	0.7938	2.6267e-03	0.0000e+00
72	EMPTY	0.8057	0.8203	0.8062	2.2603e-03	0.0000e+00
73	EMPTY	0.8252	0.8252	0.8252	0.0000e+00	0.0000e+00
74	EMPTY	0.8350	0.8447	0.8398	9.8648e-04	0.0000e+00
75	EMPTY	0.8545	0.8594	0.8566	2.4484e-03	0.0000e+00
76	EMPTY	0.8643	0.8740	0.8695	1.6624e-03	0.0000e+00
77	EMPTY	0.8838	0.8936	0.8887	9.8648e-04	0.0000e+00
78	EMPTY	0.9082	0.9131	0.9096	2.2146e-03	0.0000e+00
79	EMPTY	0.9277	0.9326	0.9324	9.6655e-04	0.0000e+00
80	PAN020136	8.9353	9.6220	9.3534	1.5737e-01	8.7031e-01
81	PAN050136	15.1493	16.3700	15.7444	2.5838e-01	1.6805e+00
82	PAN070136	13.8741	14.6370	14.2525	1.5099e-01	8.7073e-01
83	PAN080136	3.6681	4.1259	3.9184	1.2042e-01	8.7006e-01
84	PAN090136	3.2279	3.7620	3.5056	1.2015e-01	8.7004e-01
85	PAN100136	2.6866	3.0680	2.8697	9.6259e-02	8.7003e-01
86	PAN105136	1.3007	1.7585	1.5219	1.1142e-01	8.7001e-01
87	PAN110136	4.2219	4.7560	4.4798	1.1315e-01	8.7007e-01
88	PAN115136	5.5629	6.0970	5.8315	1.0594e-01	8.7012e-01
89	PAN120136	6.2217	6.6032	6.4445	8.1328e-02	8.7015e-01
90	PAN125136	2.6652	3.0467	2.8819	1.0607e-01	8.7003e-01
91	PAN130136	-1.1157	-0.7342	-0.9554	8.8880e-02	8.7000e-01
92	PAN120048	-0.1275	0.3303	0.1716	1.2219e-01	8.7000e-01
93	PAN130048	8.4160	9.1789	8.7914	1.4771e-01	8.7028e-01
94	PAN120224	7.6999	8.1577	7.9517	1.0817e-01	8.7023e-01
95	PAN130224	6.3311	6.7889	6.5905	1.2137e-01	8.7016e-01
96	PAN120312	1.2282	1.6860	1.4449	1.1259e-01	8.7001e-01
97	PAN130312	6.4147	6.9487	6.6725	1.1523e-01	8.7016e-01
98	PAB000136	39.8161	40.1365	39.9543	7.9819e-02	5.8854e-01
99	PAB100136	37.9419	38.1250	38.0270	4.4363e-02	5.8774e-01
100	PAB125136	37.2042	37.3873	37.2912	4.3624e-02	5.8744e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4704	40.0808	39.7268	1.4848e-01	7.5655e-01
102	PRV000001	19.7186	20.2069	20.0408	8.8095e-02	7.5167e-01
103	PSR000001	36.3927	36.7589	36.6002	1.0243e-01	7.5556e-01
104	PFM000001	29.0151	30.1138	29.6230	2.2484e-01	5.0545e-01
105	PAN000136	67.7934	73.7443	71.0069	1.5898e+00	4.9232e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0067	2.3941e-03	0.0000e+00
108	EMPTY	-10.0000	-0.3369	-8.0381	2.3869e+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	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	131.3702	131.7608	131.6201	1.1864e-01	1.1313e+00
113	VPW000002	144.2533	144.6440	144.4174	9.1354e-02	1.1861e+00
114	VPW000003	117.6532	118.2392	117.8486	1.5784e-01	1.0752e+00
115	VPW000004	98.9896	99.3802	99.1460	1.0440e-01	1.0050e+00
116	VPW000005	107.8876	108.2783	108.1338	1.1027e-01	1.0378e+00
117	VPW000006	159.9271	160.5131	160.2007	1.1161e-01	1.2570e+00
118	IPW000001	1081.2980	1091.0597	1085.2030	2.7041e+00	1.1794e+01
119	IPW000002	773.9410	783.6974	779.5215	2.3983e+00	1.0175e+01
120	IPW000003	631.8375	639.6375	634.9575	2.0088e+00	9.5274e+00
121	IPW000004	534.2829	539.1657	536.5682	1.4446e+00	4.6870e+00
122	IPW000005	588.3295	590.2824	589.5308	5.2390e-01	5.0686e+00
123	IPW000006	425.6591	427.6123	426.5281	4.7607e-01	3.9184e+00
124	EMPTY	-0.0293	-0.0098	-0.0195	4.6270e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0130	3.3613e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0164	3.6593e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	3.1521e-03	0.0000e+00
128	IHT000001	126.7728	128.9213	127.7221	5.7725e-01	4.2943e+00
129	IHT000002	130.4500	132.5984	131.3602	5.5329e-01	4.3053e+00
130	IHT000003	130.3824	132.3355	131.2456	5.3972e-01	4.3049e+00
131	IHT000004	141.9884	144.1369	142.9376	5.8128e-01	4.3420e+00
132	IHT000005	140.0578	142.0110	140.8390	5.5524e-01	4.3352e+00
133	IHT000006	134.6417	136.5948	135.5635	5.5248e-01	4.3183e+00
134	IHT000007	128.2790	130.6227	129.3493	5.5558e-01	4.2992e+00
135	IHT000008	127.0583	129.2067	127.9450	5.2230e-01	4.2950e+00
136	IHT000009	127.9222	129.6800	128.6956	5.3081e-01	4.2972e+00
137	IHT000010	117.4955	119.6439	118.6088	4.7062e-01	4.2681e+00
138	IHT000011	115.5649	117.9087	116.8267	4.6890e-01	4.2632e+00
139	IHT000012	113.7883	115.9368	114.9679	4.8802e-01	4.2581e+00
140	IHT000013	93.0552	95.2036	94.2388	5.2409e-01	4.2069e+00
141	IHT000014	120.1134	122.2619	121.0861	5.0914e-01	4.2751e+00
142	IHT000015	97.0102	99.3540	98.2134	5.2698e-01	4.2160e+00
143	IHT000016	86.0239	88.1723	87.1411	4.7848e-01	4.1916e+00
144	IHT000017	103.7861	107.8876	105.7080	1.1418e+00	4.2341e+00
145	IHT000018	106.4228	108.5712	107.5713	5.8079e-01	4.2388e+00
146	IHT000019	113.7620	116.3011	114.6058	4.8398e-01	4.2572e+00
147	IHT000020	117.5631	119.7115	118.4146	4.7147e-01	4.2676e+00
148	IHT000021	-2.4377	0.1014	-1.3869	5.8778e-01	4.1000e+00
149	IHT000022	97.1793	99.7183	98.0738	5.0700e-01	4.2157e+00
150	IHT000023	115.0316	117.1800	115.9652	5.1189e-01	4.2608e+00
151	IHT000024	80.8631	82.8162	81.8826	4.8695e-01	4.1810e+00
152	IHT000025	102.7381	105.0819	103.8631	5.4328e-01	4.2295e+00
153	IHT000026	104.1016	106.0547	105.1094	4.9499e-01	4.2326e+00
154	IHT000027	87.2408	89.1940	88.2759	4.6228e-01	4.1940e+00
155	IHT000028	88.8146	91.1584	89.8420	5.8502e-01	4.1973e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.6396	106.5693	104.9677	6.0232e-01	4.2322e+00
157	IHT000030	106.0096	108.5487	107.2792	6.0650e-01	4.2380e+00
158	IHT000031	94.9594	97.3032	96.1782	5.5322e-01	4.2113e+00
159	IHT000032	95.9886	98.3323	97.2112	5.7019e-01	4.2137e+00
160	IHT000033	95.9736	98.3173	97.1728	5.6222e-01	4.2136e+00
161	IHT000034	88.2474	90.2006	89.3256	4.9006e-01	4.1962e+00
162	IHT000035	116.4025	118.3556	117.4415	5.0754e-01	4.2649e+00
163	IHT000036	86.9479	88.7057	87.9713	4.6111e-01	4.1933e+00

Velocity 1 = 13.8459 (ft/sec) (+/- 1.8757 %)
 Velocity 2 = 13.4141 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 2.4838 (psi)
 Tsat in = 267.3824 (deg F) Tsat out = 263.4797 (deg F)
 Phi inner = 99.5260 (kBtu/hr-ft2) (+/- 1.5797 %)
 Phi outer = 101.6123 (kBtu/hr-ft2) (+/- 1.4773 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	76.2051	76.8441	76.4692	1.7512e-01	1.9000e+00
1	TRF0000002	76.5164	76.9401	76.7961	1.1673e-01	1.9000e+00
2	TFM0000001	86.0745	87.2295	86.4946	2.3440e-01	1.9002e+00
3	TIN0000001	85.4195	86.1573	85.8200	1.7164e-01	1.9002e+00
4	TRV0000001	86.3431	87.0784	86.7713	1.9960e-01	1.9002e+00
5	TSR0000001	108.7534	109.4730	109.1062	1.8032e-01	1.9010e+00
6	TAO020136	56.2669	58.2096	57.3205	4.8076e-01	1.9001e+00
7	TAO050136	125.0818	126.0984	125.6960	1.8815e-01	1.9021e+00
8	TAO070136	125.0716	127.2192	126.1603	4.5495e-01	1.9021e+00
9	TAO080136	102.1004	145.4063	121.8684	9.5167e+00	1.9018e+00
10	TAO090136	142.9783	143.7820	143.3884	1.9136e-01	1.9036e+00
11	TAO100136	139.0594	140.0681	139.6724	2.0151e-01	1.9033e+00
12	TAO105136	140.7747	141.5816	141.2592	2.1662e-01	1.9034e+00
13	TAO110136	146.0021	146.9005	146.4854	1.9906e-01	1.9039e+00
14	TAO115136	141.5455	142.3517	141.9365	1.9918e-01	1.9035e+00
15	TAO120136	147.0069	147.7101	147.3484	1.6715e-01	1.9040e+00
16	TAO125136	93.5264	94.5699	94.0902	2.5657e-01	1.9004e+00
17	TAO130136	143.7100	144.4085	144.1540	1.4460e-01	1.9037e+00
18	TAO120048	86.6902	87.8460	87.1655	2.9951e-01	1.9002e+00
19	TAO130048	138.9407	139.6460	139.3803	1.7361e-01	1.9032e+00
20	TAO120224	140.4398	141.1457	140.8836	1.5511e-01	1.9034e+00
21	TAO130224	134.2811	135.0877	134.7252	2.0723e-01	1.9028e+00
22	TAO120312	134.4472	135.4612	134.9581	1.8651e-01	1.9028e+00
23	TAO130312	133.9740	134.5824	134.2621	1.4515e-01	1.9028e+00
24	TRT020000	118.9245	119.9519	119.5286	2.3718e-01	1.9017e+00
25	TRT070000	128.4328	129.2513	128.8542	2.2302e-01	1.9023e+00
26	TRT100000	135.3899	136.2991	135.8955	1.9253e-01	1.9029e+00
27	TRT120000	138.2253	139.0327	138.6292	1.6691e-01	1.9032e+00
28	TRT125000	80.7297	81.5724	81.1977	1.7942e-01	1.9001e+00
29	TRT130000	135.5929	136.2000	135.9088	1.3957e-01	1.9029e+00
30	EMPTY	39.1464	40.0646	39.6791	2.4292e-01	1.9011e+00
31	TAF050136	100.4111	101.1378	100.7187	1.9662e-01	1.9006e+00
32	TAF070136	137.7534	145.3609	141.4129	1.7486e+00	1.9034e+00
33	TAF080136	136.8134	138.6182	137.5794	3.6942e-01	1.9031e+00
34	TAF090136	79.6943	80.9618	80.3284	2.7815e-01	1.9001e+00
35	TAF100136	115.9327	116.7557	116.3689	1.7705e-01	1.9014e+00
36	TAF105136	116.4855	117.6079	117.0694	2.7248e-01	1.9015e+00
37	TAF110136	119.1234	120.1446	119.6222	1.8881e-01	1.9017e+00
38	TAF115136	121.6748	122.5937	122.0713	2.0690e-01	1.9018e+00
39	TAF120136	132.1461	132.8548	132.4341	1.4650e-01	1.9026e+00
40	TAF125136	124.4326	125.5483	125.0210	2.9383e-01	1.9020e+00
41	TAF130136	125.9102	126.5218	126.2041	1.6027e-01	1.9021e+00
42	TAF120048	118.8073	119.7348	119.4006	2.2169e-01	1.9016e+00
43	TAF130048	121.4695	122.0834	121.7481	1.3252e-01	1.9018e+00
44	TAF120224	118.1510	118.7670	118.4426	1.7603e-01	1.9016e+00
45	TAF130224	120.0008	120.5149	120.2726	1.1695e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0710	1.9947e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.4082	1.2281e-01	1.9010e+00
48	TAI130048	135.6531	137.2707	136.5754	3.5174e-01	1.9030e+00
49	TAI130136	145.0369	145.8395	145.4426	1.9626e-01	1.9038e+00
50	TAI130224	133.9571	135.5800	134.6230	3.3377e-01	1.9028e+00
51	TAI130312	132.7568	133.6703	133.3091	1.8471e-01	1.9027e+00
52	TRR130000	98.9827	100.5358	99.7814	4.1787e-01	1.9006e+00
53	TSI000001	67.9285	68.6750	68.3338	2.0426e-01	1.9000e+00
54	TSI000002	90.3641	94.1203	92.5353	8.2374e-01	1.9003e+00
55	TSO000001	67.9363	68.6866	68.3778	1.7928e-01	1.9000e+00
56	TSO000002	73.1933	74.0441	73.5721	1.9241e-01	1.9000e+00
57	TAF020136	90.2202	90.9574	90.5404	1.7543e-01	1.9003e+00
58	TAF120312	114.2259	115.1510	114.6746	2.3739e-01	1.9013e+00
59	TAF130312	118.9322	119.6493	119.2605	1.7802e-01	1.9016e+00
60	EMPTY	1.1914	1.2012	1.1966	1.5314e-03	0.0000e+00
61	EMPTY	1.2012	1.2061	1.2059	9.6655e-04	0.0000e+00
62	EMPTY	1.2109	1.2158	1.2131	2.4484e-03	0.0000e+00
63	EMPTY	1.2207	1.2256	1.2252	1.3381e-03	0.0000e+00
64	EMPTY	0.6787	0.6885	0.6812	2.6543e-03	0.0000e+00
65	EMPTY	0.6982	0.7080	0.7029	1.6972e-03	0.0000e+00
66	EMPTY	0.7129	0.7178	0.7175	1.1714e-03	0.0000e+00
67	EMPTY	0.7324	0.7373	0.7357	2.3008e-03	0.0000e+00
68	EMPTY	0.7422	0.7520	0.7471	9.8648e-04	0.0000e+00
69	EMPTY	0.7617	0.7666	0.7658	1.8082e-03	0.0000e+00
70	EMPTY	0.7754	0.7813	0.7797	2.3008e-03	0.0000e+00
71	EMPTY	0.8008	0.8057	0.8009	6.9053e-04	0.0000e+00
72	EMPTY	0.8154	0.8154	0.8154	0.0000e+00	0.0000e+00
73	EMPTY	0.8301	0.8398	0.8343	1.9754e-03	0.0000e+00
74	EMPTY	0.8447	0.8496	0.8489	1.7115e-03	0.0000e+00
75	EMPTY	0.8594	0.8691	0.8644	1.2041e-03	0.0000e+00
76	EMPTY	0.8789	0.8838	0.8790	6.9053e-04	0.0000e+00
77	EMPTY	0.8936	0.8984	0.8977	1.8082e-03	0.0000e+00
78	EMPTY	0.9180	0.9180	0.9180	0.0000e+00	0.0000e+00
79	EMPTY	0.9375	0.9424	0.9389	2.2146e-03	0.0000e+00
80	PAN020136	8.7827	9.3931	9.1443	1.3509e-01	8.7030e-01
81	PAN050136	14.5390	15.6071	15.0974	2.2571e-01	1.6804e+00
82	PAN070136	13.4163	14.1029	13.7016	1.4195e-01	8.7067e-01
83	PAN080136	3.8207	4.2022	4.0328	1.0258e-01	8.7006e-01
84	PAN090136	2.9227	3.3805	3.1104	1.2059e-01	8.7003e-01
85	PAN100136	2.3814	3.0680	2.7247	1.1353e-01	8.7003e-01
86	PAN105136	1.3770	1.7585	1.5860	9.3517e-02	8.7001e-01
87	PAN110136	4.2219	4.6034	4.4447	9.3555e-02	8.7007e-01
88	PAN115136	5.1051	5.7155	5.4317	1.1844e-01	8.7011e-01
89	PAN120136	6.0691	6.5269	6.3026	7.7698e-02	8.7014e-01
90	PAN125136	2.5889	2.8941	2.7598	8.3803e-02	8.7003e-01
91	PAN130136	-1.1919	-0.8868	-1.0226	7.5966e-02	8.7000e-01
92	PAN120048	-0.2801	0.2540	0.0159	1.2392e-01	8.7000e-01
93	PAN130048	8.2634	8.7212	8.5304	1.1035e-01	8.7026e-01
94	PAN120224	7.7762	8.1577	7.9441	1.0454e-01	8.7023e-01
95	PAN130224	5.8734	6.3311	6.1419	9.8984e-02	8.7014e-01
96	PAN120312	0.9993	1.4571	1.2404	1.0938e-01	8.7001e-01
97	PAN130312	6.2621	6.7198	6.4772	1.0532e-01	8.7015e-01
98	PAB000136	39.8619	40.1365	40.0092	6.4929e-02	5.8856e-01
99	PAB100136	38.0792	38.2623	38.1607	4.4632e-02	5.8779e-01
100	PAB125136	37.3873	37.5246	37.4651	3.4911e-02	5.8751e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4704	40.3249	39.9709	1.7131e-01	7.5663e-01
102	PRV000001	19.7186	19.9627	19.9456	4.9385e-02	7.5166e-01
103	PSR000001	36.5148	37.0031	36.8248	9.2966e-02	7.5563e-01
104	PFM000001	28.9236	29.8391	29.3850	2.3466e-01	5.0537e-01
105	PAN000136	64.5891	71.4555	68.7639	1.3230e+00	4.9230e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0053	1.3381e-03	0.0000e+00
108	EMPTY	-10.0000	-0.1123	-6.7990	2.9189e+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	131.3702	131.9561	131.5928	1.3093e-01	1.1311e+00
113	VPW000002	144.2533	144.6440	144.4448	1.1497e-01	1.1863e+00
114	VPW000003	117.4579	118.2392	117.7509	1.6857e-01	1.0748e+00
115	VPW000004	98.7943	99.1849	98.9897	1.3087e-01	1.0044e+00
116	VPW000005	107.8876	108.2783	108.0634	9.0412e-02	1.0375e+00
117	VPW000006	159.9271	160.5131	160.2592	1.2001e-01	1.2573e+00
118	IPW000001	1073.4886	1077.3933	1074.9335	1.1708e+00	1.1736e+01
119	IPW000002	793.4537	803.2101	797.4341	2.7015e+00	1.0261e+01
120	IPW000003	655.2375	661.0875	658.1234	1.1975e+00	9.6250e+00
121	IPW000004	536.2360	537.7009	536.9491	3.3029e-01	4.6897e+00
122	IPW000005	593.2118	594.6765	594.0513	3.8255e-01	5.1014e+00
123	IPW000006	428.1006	430.5420	429.2039	4.7114e-01	3.9366e+00
124	EMPTY	-0.0342	-0.0146	-0.0225	4.5206e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0149	3.1828e-03	0.0000e+00
126	EMPTY	-0.0293	-0.0146	-0.0188	3.7382e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0171	3.3087e-03	0.0000e+00
128	IHT000001	126.5775	129.3119	127.7299	6.2297e-01	4.2944e+00
129	IHT000002	130.4500	132.5984	131.3875	5.5664e-01	4.3054e+00
130	IHT000003	130.3824	132.7261	131.2847	5.3363e-01	4.3051e+00
131	IHT000004	141.9884	144.1369	142.9454	5.6531e-01	4.3420e+00
132	IHT000005	139.8625	142.0110	140.8117	5.6773e-01	4.3351e+00
133	IHT000006	134.4464	136.7901	135.5205	5.5278e-01	4.3182e+00
134	IHT000007	128.0837	130.8181	129.2907	5.8752e-01	4.2990e+00
135	IHT000008	126.8630	129.2067	127.9176	4.8967e-01	4.2949e+00
136	IHT000009	127.7268	130.0706	128.7191	4.8783e-01	4.2973e+00
137	IHT000010	117.4955	119.8392	118.5853	5.1006e-01	4.2680e+00
138	IHT000011	115.9555	117.7134	116.7915	4.6192e-01	4.2631e+00
139	IHT000012	113.9836	115.7415	114.8703	4.7549e-01	4.2579e+00
140	IHT000013	93.2505	95.2036	94.1372	4.5027e-01	4.2067e+00
141	IHT000014	120.1134	122.2619	121.0197	4.7311e-01	4.2749e+00
142	IHT000015	97.2055	98.9633	98.0962	4.5363e-01	4.2157e+00
143	IHT000016	86.0239	87.9770	86.9887	4.7745e-01	4.1913e+00
144	IHT000017	103.3954	107.6923	105.2119	9.1290e-01	4.2328e+00
145	IHT000018	106.4228	108.9619	107.3760	5.7540e-01	4.2383e+00
146	IHT000019	113.5667	115.5198	114.6097	4.2610e-01	4.2572e+00
147	IHT000020	117.5631	119.5162	118.3560	4.3119e-01	4.2674e+00
148	IHT000021	-2.4377	-0.2892	-1.4689	4.8642e-01	4.1000e+00
149	IHT000022	96.9839	98.9371	97.9253	4.1138e-01	4.2153e+00
150	IHT000023	115.0316	116.7894	115.8675	4.3232e-01	4.2606e+00
151	IHT000024	81.0584	82.8162	81.7654	4.4273e-01	4.1807e+00
152	IHT000025	102.7381	104.8866	103.6913	4.5786e-01	4.2291e+00
153	IHT000026	103.9063	105.8594	104.8398	4.1999e-01	4.2319e+00
154	IHT000027	87.2408	89.1940	88.0338	4.1462e-01	4.1934e+00
155	IHT000028	89.0099	90.9631	89.8185	5.4962e-01	4.1972e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.0302	106.3740	104.9677	5.9973e-01	4.2322e+00
157	IHT000030	106.4002	108.9393	107.2752	6.0263e-01	4.2380e+00
158	IHT000031	95.1547	97.4985	96.1860	5.6777e-01	4.2113e+00
159	IHT000032	96.3792	98.7230	97.1839	5.8346e-01	4.2136e+00
160	IHT000033	96.3642	98.9032	97.1533	5.9837e-01	4.2135e+00
161	IHT000034	88.4428	90.5912	89.3100	5.3403e-01	4.1961e+00
162	IHT000035	116.5978	118.7462	117.4923	5.1462e-01	4.2650e+00
163	IHT000036	87.1432	89.2916	87.9908	4.8103e-01	4.1934e+00

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Velocity 1 = 0.055000 (ft/sec)

Velocity 2 = 0.000600 (ft/sec)

Pressure Drop = 0.081000 (psi)

Tsat in = 0.081879 (deg F) Tsat out = 0.275513 (deg F)

Phi inner = 1.120598 (kBtu/hr-ft2) Phi outer = 0.754295 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1150	0.1506
1	TRF000002	0.0763	0.0994
2	TFM000001	0.5442	0.6332
3	TIN000001	0.4488	0.5257
4	TRV000001	0.5343	0.6196
5	TSR000001	0.4631	0.4263
6	TAO020136	0.7654	1.3177
7	TAO050136	0.6717	0.5373
8	TAO070136	1.2545	1.0044
9	TAO080136	12.3369	11.2633
10	TAO090136	0.7125	0.4994
11	TAO100136	0.7393	0.5321
12	TAO105136	0.8493	0.6049
13	TAO110136	0.8344	0.5729
14	TAO115136	0.7036	0.4982
15	TAO120136	0.2870	0.1952
16	TAO125136	0.1932	0.2049
17	TAO130136	0.7482	0.5217
18	TAO120048	0.8845	1.0251
19	TAO130048	0.7260	0.5236
20	TAO120224	0.8280	0.5912
21	TAO130224	0.7931	0.5922
22	TAO120312	0.7033	0.5238
23	TAO130312	0.6648	0.4976
24	TRT020000	0.6307	0.5305
25	TRT070000	0.5625	0.4385
26	TRT100000	0.6842	0.5060
27	TRT120000	0.7038	0.5103
28	TRT125000	1.6146	2.0288
29	TRT130000	0.7247	0.5361
30	EMPTY	0.0551	0.1391
31	TAF050136	0.5285	0.5275
32	TAF070136	3.1120	2.1533
33	TAF080136	0.7926	0.5794
34	TAF090136	0.6652	0.8350
35	TAF100136	0.6894	0.5960
36	TAF105136	0.4629	0.3970
37	TAF110136	0.7286	0.6128
38	TAF115136	0.7201	0.5934
39	TAF120136	0.2852	0.2158
40	TAF125136	0.6260	0.5032
41	TAF130136	0.6976	0.5558
42	TAF120048	0.6408	0.5396
43	TAF130048	0.6926	0.5721
44	TAF120224	0.6654	0.5650
45	TAF130224	0.6599	0.5517

#	Name	Abs Diff	%Diff
46	EMPTY	0.0690	0.1809
47	EMPTY	0.0138	0.0350
48	TAI130048	0.6813	0.5013
49	TAI130136	0.7590	0.5246
50	TAI130224	0.7733	0.5777
51	TAI130312	0.7691	0.5803
52	TRR130000	0.2057	0.2066
53	TSI000001	0.0410	0.0600
54	TSI000002	1.2631	1.3839
55	TSO000001	0.0109	0.0159
56	TSO000002	0.1001	0.1362
57	TAF020136	0.5081	0.5643
58	TAF120312	0.6682	0.5861
59	TAF130312	0.6651	0.5608
60	EMPTY	0.0142	1.2009
61	EMPTY	0.0146	1.2255
62	EMPTY	0.0142	1.1844
63	EMPTY	0.0149	1.2311
64	EMPTY	0.0072	1.0682
65	EMPTY	0.0087	1.2532
66	EMPTY	0.0086	1.2131
67	EMPTY	0.0081	1.1133
68	EMPTY	0.0060	0.8096
69	EMPTY	0.0090	1.1892
70	EMPTY	0.0082	1.0629
71	EMPTY	0.0071	0.8944
72	EMPTY	0.0092	1.1412
73	EMPTY	0.0091	1.1028
74	EMPTY	0.0091	1.0836
75	EMPTY	0.0078	0.9106
76	EMPTY	0.0095	1.0926
77	EMPTY	0.0090	1.0127
78	EMPTY	0.0084	0.9235
79	EMPTY	0.0065	0.6971
80	PAN020136	0.2091	2.2355
81	PAN050136	0.6470	4.1094
82	PAN070136	0.5509	3.8653
83	PAN080136	0.1144	2.9196
84	PAN090136	0.3952	11.2734
85	PAN100136	0.1450	5.0528
86	PAN105136	0.0641	4.2118
87	PAN110136	0.0351	0.7835
88	PAN115136	0.3998	6.8559
89	PAN120136	0.1419	2.2019
90	PAN125136	0.1221	4.2368
91	PAN130136	0.0672	7.0337
92	PAN120048	0.1557	90.7343
93	PAN130048	0.2610	2.9688
94	PAN120224	0.0076	0.0956
95	PAN130224	0.4486	6.8068
96	PAN120312	0.2045	14.1532
97	PAN130312	0.1953	2.9269
98	PAB000136	0.0549	0.1374
99	PAB100136	0.1337	0.3516
100	PAB125136	0.1739	0.4663

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2441	0.6145
102	PRV000001	0.0952	0.4750
103	PSR000001	0.2246	0.6137
104	PFM000001	0.2380	0.8034
105	PAN000136	2.2430	3.1588
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0014	20.8955
108	EMPTY	1.2391	15.4153
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0273	0.0207
113	VPW000002	0.0274	0.0190
114	VPW000003	0.0977	0.0829
115	VPW000004	0.1563	0.1576
116	VPW000005	0.0704	0.0651
117	VPW000006	0.0585	0.0365
118	IPW000001	10.2695	0.9463
119	IPW000002	17.9126	2.2979
120	IPW000003	23.1659	3.6484
121	IPW000004	0.3809	0.0710
122	IPW000005	4.5204	0.7668
123	IPW000006	2.6758	0.6273
124	EMPTY	0.0030	15.3846
125	EMPTY	0.0019	14.6154
126	EMPTY	0.0024	14.6341
127	EMPTY	0.0002	1.1834
128	IHT000001	0.0078	0.0061
129	IHT000002	0.0273	0.0208
130	IHT000003	0.0391	0.0298
131	IHT000004	0.0078	0.0055
132	IHT000005	0.0273	0.0194
133	IHT000006	0.0430	0.0317
134	IHT000007	0.0586	0.0453
135	IHT000008	0.0274	0.0214
136	IHT000009	0.0235	0.0183
137	IHT000010	0.0235	0.0198
138	IHT000011	0.0352	0.0301
139	IHT000012	0.0976	0.0849
140	IHT000013	0.1016	0.1078
141	IHT000014	0.0664	0.0548
142	IHT000015	0.1172	0.1193
143	IHT000016	0.1524	0.1749
144	IHT000017	0.4961	0.4693
145	IHT000018	0.1953	0.1816
146	IHT000019	0.0039	0.0034
147	IHT000020	0.0586	0.0495
148	IHT000021	0.0820	5.9125
149	IHT000022	0.1485	0.1514
150	IHT000023	0.0977	0.0843
151	IHT000024	0.1172	0.1431
152	IHT000025	0.1718	0.1654
153	IHT000026	0.2696	0.2565
154	IHT000027	0.2421	0.2743
155	IHT000028	0.0235	0.0262

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0000	0.0000
157	IHT000030	0.0040	0.0037
158	IHT000031	0.0078	0.0081
159	IHT000032	0.0273	0.0281
160	IHT000033	0.0195	0.0201
161	IHT000034	0.0156	0.0175
162	IHT000035	0.0508	0.0433
163	IHT000036	0.0195	0.0222

Velocity 1 = 7.9370 (ft/sec) (+/- 3.1041 %)
 Velocity 2 = 7.9590 (ft/sec) (+/- 1.9160 %)
 Pressure drop = -2.6029 (psi)
 Tsat in = 267.4765 (deg F) Tsat out = 270.9916 (deg F)
 Phi inner = 98.3029 (kBtu/hr-ft2) (+/- 1.5931 %)
 Phi outer = 101.0335 (kBtu/hr-ft2) (+/- 1.4797 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.2051	77.0570	76.6268	1.8501e-01	1.9000e+00
1	TRF000002	76.7283	77.1519	76.9401	1.1321e-01	1.9000e+00
2	TFM000001	86.3896	87.2311	86.9128	1.9037e-01	1.9002e+00
3	TIN000001	85.8410	86.5787	86.2476	1.4440e-01	1.9002e+00
4	TRV000001	86.8672	87.6017	87.1928	2.0119e-01	1.9002e+00
5	TSR000001	114.3921	115.9283	115.0215	3.4343e-01	1.9014e+00
6	TAO020136	55.9433	58.2092	56.8826	4.6056e-01	1.9001e+00
7	TAO050136	150.5827	151.4800	151.0340	1.9855e-01	1.9044e+00
8	TAO070136	151.7235	153.2274	152.5957	3.3052e-01	1.9046e+00
9	TAO080136	171.1993	171.9863	171.5822	1.6874e-01	1.9069e+00
10	TAO090136	176.2713	177.2525	176.6813	1.9379e-01	1.9077e+00
11	TAO100136	174.6332	175.3221	174.9341	1.9079e-01	1.9074e+00
12	TAO105136	177.6879	178.7681	178.2042	2.6375e-01	1.9079e+00
13	TAO110136	184.1514	185.0254	184.4999	2.0018e-01	1.9088e+00
14	TAO115136	178.7176	179.7967	179.2807	2.2493e-01	1.9080e+00
15	TAO120136	186.8284	187.5112	187.1226	1.6775e-01	1.9092e+00
16	TAO125136	108.5528	110.0977	109.3786	2.8432e-01	1.9010e+00
17	TAO130136	182.2811	182.8660	182.6354	1.4611e-01	1.9085e+00
18	TAO120048	88.7892	89.9430	89.4500	2.6816e-01	1.9003e+00
19	TAO130048	174.5371	175.1274	174.8296	1.4913e-01	1.9074e+00
20	TAO120224	176.4087	177.2930	176.9839	1.9837e-01	1.9077e+00
21	TAO130224	166.5741	167.4562	167.1319	1.9859e-01	1.9063e+00
22	TAO120312	167.5766	168.3685	167.9586	1.9790e-01	1.9065e+00
23	TAO130312	164.7120	165.4055	165.1018	1.4194e-01	1.9061e+00
24	TRT020000	139.4136	140.3244	139.8490	2.4199e-01	1.9033e+00
25	TRT070000	156.2811	157.1827	156.6158	2.0192e-01	1.9050e+00
26	TRT100000	166.5853	167.5713	166.9737	2.2588e-01	1.9063e+00
27	TRT120000	171.7698	172.4594	172.1658	1.9122e-01	1.9070e+00
28	TRT125000	82.6182	83.4596	83.0076	1.9022e-01	1.9001e+00
29	TRT130000	167.8794	168.3746	168.1030	1.3942e-01	1.9065e+00
30	EMPTY	39.1464	40.0646	39.7158	2.1371e-01	1.9011e+00
31	TAF050136	111.7478	112.9815	112.2062	2.5358e-01	1.9012e+00
32	TAF070136	193.9939	204.5617	200.3717	3.1971e+00	1.9114e+00
33	TAF080136	168.2134	170.0739	169.2384	4.2587e-01	1.9066e+00
34	TAF090136	82.1205	83.0689	82.5825	2.1802e-01	1.9001e+00
35	TAF100136	138.5749	139.4851	139.0299	2.1451e-01	1.9032e+00
36	TAF105136	140.9815	142.0808	141.5904	2.4600e-01	1.9034e+00
37	TAF110136	144.1698	145.0708	144.6768	1.8811e-01	1.9038e+00
38	TAF115136	147.6122	148.8120	148.3945	2.3541e-01	1.9041e+00
39	TAF120136	165.4301	166.4161	165.8031	2.2825e-01	1.9062e+00
40	TAF125136	152.9501	154.0421	153.5164	2.6748e-01	1.9047e+00
41	TAF130136	155.6486	156.4438	156.0211	1.7151e-01	1.9050e+00
42	TAF120048	142.6108	143.6221	143.1344	2.3450e-01	1.9036e+00
43	TAF130048	148.3471	149.1486	148.6979	1.6960e-01	1.9042e+00
44	TAF120224	142.4747	143.3792	142.9514	2.1552e-01	1.9036e+00
45	TAF130224	144.5475	145.3542	144.9249	1.5356e-01	1.9038e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1170	2.0375e-01	1.9010e+00
47	EMPTY	39.1464	39.8352	39.5230	1.3728e-01	1.9011e+00
48	TAI130048	171.8579	173.5302	172.7813	3.3082e-01	1.9071e+00
49	TAI130136	184.2914	185.5583	184.8351	2.2098e-01	1.9089e+00
50	TAI130224	165.9491	167.0392	166.5773	2.6679e-01	1.9063e+00
51	TAI130312	166.4173	167.2092	166.8900	1.8684e-01	1.9063e+00
52	TRR130000	104.1501	106.5214	105.3820	5.2288e-01	1.9008e+00
53	TSI000001	68.2484	68.7833	68.4687	1.3693e-01	1.9000e+00
54	TSI000002	87.5416	92.1410	89.9202	1.1988e+00	1.9003e+00
55	TSO000001	68.0436	68.7933	68.3796	1.6765e-01	1.9000e+00
56	TSO000002	75.5299	76.3780	75.8798	2.0370e-01	1.9000e+00
57	TAF020136	94.4319	95.3770	94.9089	2.2567e-01	1.9004e+00
58	TAF120312	136.2325	137.5463	136.8976	3.3913e-01	1.9030e+00
59	TAF130312	143.0422	144.1475	143.5990	2.4459e-01	1.9036e+00
60	EMPTY	1.7676	1.7773	1.7740	2.6908e-03	0.0000e+00
61	EMPTY	1.7725	1.7822	1.7784	2.2689e-03	0.0000e+00
62	EMPTY	1.7773	1.7822	1.7817	1.4797e-03	0.0000e+00
63	EMPTY	1.7871	1.7920	1.7902	2.3675e-03	0.0000e+00
64	EMPTY	0.9277	0.9326	0.9289	2.1065e-03	0.0000e+00
65	EMPTY	0.9473	0.9521	0.9479	1.6028e-03	0.0000e+00
66	EMPTY	0.9619	0.9668	0.9620	6.9053e-04	0.0000e+00
67	EMPTY	0.9766	0.9814	0.9778	2.1635e-03	0.0000e+00
68	EMPTY	0.9863	0.9912	0.9909	1.1714e-03	0.0000e+00
69	EMPTY	1.0059	1.0059	1.0059	0.0000e+00	0.0000e+00
70	EMPTY	1.0156	1.0205	1.0196	1.8950e-03	0.0000e+00
71	EMPTY	1.0352	1.0400	1.0399	6.9053e-04	0.0000e+00
72	EMPTY	1.0498	1.0547	1.0501	1.1714e-03	0.0000e+00
73	EMPTY	1.0645	1.0742	1.0692	1.2041e-03	0.0000e+00
74	EMPTY	1.0791	1.0840	1.0823	2.3365e-03	0.0000e+00
75	EMPTY	1.0938	1.0986	1.0985	6.9053e-04	0.0000e+00
76	EMPTY	1.1084	1.1133	1.1085	6.9053e-04	0.0000e+00
77	EMPTY	1.1279	1.1279	1.1279	0.0000e+00	0.0000e+00
78	EMPTY	1.1475	1.1523	1.1477	9.6655e-04	0.0000e+00
79	EMPTY	1.1670	1.1719	1.1673	1.1714e-03	0.0000e+00
80	PAN020136	-9.0701	-8.6123	-8.8137	9.3453e-02	8.7028e-01
81	PAN050136	-18.1149	-17.3519	-17.7487	1.7439e-01	1.6806e+00
82	PAN070136	-10.8452	-10.3111	-10.5446	1.3206e-01	8.7040e-01
83	PAN080136	-6.7079	-6.3264	-6.5126	8.6041e-02	8.7015e-01
84	PAN090136	-6.6903	-6.3851	-6.5713	8.3234e-02	8.7016e-01
85	PAN100136	-6.9265	-6.5450	-6.6869	7.7084e-02	8.7016e-01
86	PAN105136	-3.2007	-2.8192	-3.0053	7.0903e-02	8.7003e-01
87	PAN110136	-2.5682	-2.2630	-2.3988	7.9032e-02	8.7002e-01
88	PAN115136	-2.0665	-1.7613	-1.9536	6.7610e-02	8.7001e-01
89	PAN120136	-1.7128	-1.4077	-1.5892	7.5338e-02	8.7001e-01
90	PAN125136	-3.2094	-2.9043	-3.0401	7.2772e-02	8.7003e-01
91	PAN130136	-4.2437	-4.0148	-4.1140	6.5847e-02	8.7006e-01
92	PAN120048	-8.2146	-7.9095	-8.0300	7.8731e-02	8.7023e-01
93	PAN130048	-4.9354	-4.6303	-4.7752	8.1925e-02	8.7008e-01
94	PAN120224	-5.0412	-4.6597	-4.8077	9.1721e-02	8.7008e-01
95	PAN130224	-5.7233	-5.3418	-5.5677	8.7139e-02	8.7011e-01
96	PAN120312	-7.2404	-6.9352	-7.1244	7.5888e-02	8.7018e-01
97	PAN130312	-5.7161	-5.4109	-5.5314	8.3134e-02	8.7011e-01
98	PAB000136	39.9534	40.2281	40.0724	6.1346e-02	5.8859e-01
99	PAB100136	41.9702	42.1533	42.0325	4.2138e-02	5.8944e-01
100	PAB125136	42.4227	42.5600	42.4969	4.4247e-02	5.8965e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.5925	40.2028	39.8733	1.3564e-01	7.5660e-01
102	PRV000001	19.7186	20.0848	19.8921	6.8033e-02	7.5165e-01
103	PSR000001	42.3741	42.6183	42.4669	5.8152e-02	7.5748e-01
104	PFM000001	9.4229	9.7891	9.5584	1.0664e-01	5.0057e-01
105	PAN000136	-75.0289	-69.9935	-72.0625	1.1816e+00	4.9233e+00
106	PFM000002	9.4970	9.7152	9.6121	4.7943e-02	2.0144e-01
107	EMPTY	-0.0049	0.0049	0.0041	2.4878e-03	0.0000e+00
108	EMPTY	-10.0000	-3.1201	-8.4221	2.0929e+00	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	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	131.3702	131.9561	131.6514	1.1942e-01	1.1314e+00
113	VPW000002	144.4486	144.8393	144.6557	1.4450e-01	1.1872e+00
114	VPW000003	117.6532	118.2392	117.9658	1.5282e-01	1.0757e+00
115	VPW000004	98.7943	99.3802	99.1733	1.2731e-01	1.0051e+00
116	VPW000005	107.8876	108.4736	108.2197	1.0625e-01	1.0381e+00
117	VPW000006	160.1225	160.7084	160.3530	1.4600e-01	1.2577e+00
118	IPW000001	1087.1550	1091.0597	1089.7323	1.2744e+00	1.1820e+01
119	IPW000002	773.9410	777.8436	775.3850	1.2961e+00	1.0155e+01
120	IPW000003	631.8375	637.6875	634.1385	1.6570e+00	9.5240e+00
121	IPW000004	536.7243	538.6774	537.8475	4.7566e-01	4.6962e+00
122	IPW000005	587.8412	589.3060	588.6910	3.9221e-01	5.0625e+00
123	IPW000006	424.6826	426.6357	425.9031	4.4391e-01	3.9142e+00
124	EMPTY	-0.0293	-0.0098	-0.0219	3.8511e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0049	-0.0145	3.8155e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0186	3.5568e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0172	3.1567e-03	0.0000e+00
128	IHT000001	126.3822	129.3119	127.7182	5.8442e-01	4.2943e+00
129	IHT000002	130.0594	132.7937	131.4149	6.2441e-01	4.3055e+00
130	IHT000003	129.7964	132.7261	131.2730	6.1150e-01	4.3050e+00
131	IHT000004	141.5978	144.3322	142.7775	6.3743e-01	4.3415e+00
132	IHT000005	139.6672	142.2063	140.7257	5.4260e-01	4.3348e+00
133	IHT000006	134.2511	136.7901	135.3760	5.2875e-01	4.3177e+00
134	IHT000007	128.0837	130.4274	129.3141	5.0724e-01	4.2991e+00
135	IHT000008	126.8630	129.0114	127.9567	5.1296e-01	4.2950e+00
136	IHT000009	127.5315	130.0706	128.7816	5.2940e-01	4.2975e+00
137	IHT000010	117.1049	119.4486	118.3080	5.0279e-01	4.2673e+00
138	IHT000011	115.5649	117.5180	116.5102	5.0588e-01	4.2623e+00
139	IHT000012	113.7883	115.7415	114.6164	4.7279e-01	4.2572e+00
140	IHT000013	93.0552	94.8130	93.9575	4.5829e-01	4.2063e+00
141	IHT000014	120.1134	121.8712	120.8126	4.2332e-01	4.2743e+00
142	IHT000015	97.2055	98.9633	97.9673	3.8712e-01	4.2154e+00
143	IHT000016	86.2192	87.5864	86.8872	3.3503e-01	4.1911e+00
144	IHT000017	103.5908	106.3251	105.0048	6.2210e-01	4.2323e+00
145	IHT000018	106.2275	108.5712	107.3408	5.6669e-01	4.2382e+00
146	IHT000019	113.5667	115.5198	114.4261	5.0223e-01	4.2567e+00
147	IHT000020	116.7818	119.3209	118.0435	5.6937e-01	4.2665e+00
148	IHT000021	-2.8283	0.1014	-1.5314	6.5999e-01	4.1000e+00
149	IHT000022	96.5933	98.9371	97.7534	5.3147e-01	4.2149e+00
150	IHT000023	114.6409	116.9847	115.6136	5.0914e-01	4.2599e+00
151	IHT000024	80.4725	82.8162	81.5154	4.7287e-01	4.1802e+00
152	IHT000025	102.5428	105.0819	103.6600	4.8495e-01	4.2290e+00
153	IHT000026	103.7109	106.4453	104.8828	5.4534e-01	4.2320e+00
154	IHT000027	87.2408	88.9987	87.9752	4.3146e-01	4.1933e+00
155	IHT000028	88.6193	91.1584	89.4826	5.0853e-01	4.1965e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.8349	105.7880	104.6826	5.0007e-01	4.2315e+00
157	IHT000030	106.0096	107.7674	106.9627	4.4754e-01	4.2372e+00
158	IHT000031	94.9594	96.7172	95.8384	4.6563e-01	4.2105e+00
159	IHT000032	95.7933	98.1370	96.8948	5.0186e-01	4.2129e+00
160	IHT000033	95.7782	97.9267	96.8369	4.9926e-01	4.2128e+00
161	IHT000034	88.2474	90.3959	89.0756	4.4215e-01	4.1956e+00
162	IHT000035	116.2072	118.5509	117.1954	4.4888e-01	4.2642e+00
163	IHT000036	87.1432	89.4869	87.8111	4.6201e-01	4.1930e+00

Velocity 1 = 7.8704 (ft/sec) (+/- 3.1424 %)
Velocity 2 = 7.8904 (ft/sec) (+/- 1.9243 %)
Pressure drop = -2.6393 (psi)
Tsat in = 267.7361 (deg F) Tsat out = 271.2939 (deg F)
Phi inner = 99.9765 (kBtu/hr-ft2) (+/- 1.5777 %)
Phi outer = 101.5728 (kBtu/hr-ft2) (+/- 1.4765 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.4181	77.0570	76.6992	1.6906e-01	1.9000e+00
1	TRF000002	76.7283	77.3636	77.0333	1.2950e-01	1.9000e+00
2	TFM000001	87.2295	88.1741	87.7710	2.1443e-01	1.9002e+00
3	TIN000001	86.8937	87.5250	87.1294	1.4037e-01	1.9002e+00
4	TRV000001	87.5997	88.6481	88.0987	2.2744e-01	1.9002e+00
5	TSR000001	116.9478	117.9705	117.4598	2.4861e-01	1.9015e+00
6	TAO020136	58.5320	60.4706	59.4069	4.2388e-01	1.9001e+00
7	TAO050136	151.7753	152.4732	152.1454	1.8324e-01	1.9045e+00
8	TAO070136	153.4276	154.3289	153.8002	2.4782e-01	1.9047e+00
9	TAO080136	172.3736	172.9644	172.6844	1.7107e-01	1.9071e+00
10	TAO090136	177.6413	178.3275	177.9983	1.5680e-01	1.9078e+00
11	TAO100136	175.7120	176.6932	176.1755	2.0701e-01	1.9076e+00
12	TAO105136	178.9633	179.9449	179.4502	2.1616e-01	1.9081e+00
13	TAO110136	185.4093	186.1873	185.7710	1.9807e-01	1.9090e+00
14	TAO115136	179.7959	180.9725	180.5449	2.5869e-01	1.9082e+00
15	TAO120136	187.8991	188.7760	188.4059	2.0075e-01	1.9094e+00
16	TAO125136	107.6246	108.6576	108.1452	2.5436e-01	1.9010e+00
17	TAO130136	183.4362	184.2130	183.8165	1.5646e-01	1.9087e+00
18	TAO120048	90.3606	91.4084	90.9392	2.6774e-01	1.9003e+00
19	TAO130048	175.7112	176.4964	176.0724	1.5283e-01	1.9076e+00
20	TAO120224	177.8792	178.5660	178.1895	1.5143e-01	1.9079e+00
21	TAO130224	168.0401	168.8274	168.4686	2.1940e-01	1.9065e+00
22	TAO120312	168.7627	169.5536	169.1148	2.1971e-01	1.9066e+00
23	TAO130312	165.7973	166.6863	166.2598	1.8985e-01	1.9062e+00
24	TRT020000	140.2231	141.2334	140.7607	2.4619e-01	1.9034e+00
25	TRT070000	157.1829	158.0831	157.5830	2.0208e-01	1.9052e+00
26	TRT100000	167.7666	168.4574	168.0670	1.7927e-01	1.9065e+00
27	TRT120000	172.8511	173.9329	173.4611	2.1302e-01	1.9072e+00
28	TRT125000	83.7704	84.5058	84.1866	1.9432e-01	1.9001e+00
29	TRT130000	168.9625	169.5554	169.3256	1.5112e-01	1.9066e+00
30	EMPTY	39.1464	40.0646	39.6607	2.2510e-01	1.9011e+00
31	TAF050136	112.7733	113.6978	113.2871	2.3365e-01	1.9013e+00
32	TAF070136	183.5484	201.3013	194.4525	4.0917e+00	1.9104e+00
33	TAF080136	169.5836	171.5434	170.6378	4.2091e-01	1.9068e+00
34	TAF090136	82.5418	83.5958	83.2123	3.0603e-01	1.9001e+00
35	TAF100136	139.7878	140.6971	140.2767	2.1918e-01	1.9033e+00
36	TAF105136	142.3787	143.5775	142.9141	2.3936e-01	1.9036e+00
37	TAF110136	145.5696	146.2713	145.8988	1.7055e-01	1.9039e+00
38	TAF115136	149.0117	150.2102	149.6189	2.6063e-01	1.9043e+00
39	TAF120136	166.4141	167.6947	167.1079	2.7505e-01	1.9063e+00
40	TAF125136	154.1397	155.1301	154.6863	2.3056e-01	1.9048e+00
41	TAF130136	156.9399	157.6359	157.2904	1.4793e-01	1.9051e+00
42	TAF120048	143.9257	144.9360	144.4430	2.3863e-01	1.9037e+00
43	TAF130048	149.5476	150.2484	149.9196	1.7977e-01	1.9043e+00
44	TAF120224	143.3783	144.5842	143.9130	2.3873e-01	1.9037e+00
45	TAF130224	145.7579	146.5644	146.2699	1.9184e-01	1.9039e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0296	2.0253e-01	1.9010e+00
47	EMPTY	39.3761	40.2940	39.5230	1.5902e-01	1.9011e+00
48	TAI130048	173.5313	174.9065	174.0931	3.1591e-01	1.9073e+00
49	TAI130136	185.7498	186.6259	186.2095	2.3177e-01	1.9091e+00
50	TAI130224	167.3360	168.4250	167.8508	2.8632e-01	1.9064e+00
51	TAI130312	167.8013	168.8889	168.2802	2.4977e-01	1.9065e+00
52	TRR130000	103.7375	105.3908	104.5559	3.9987e-01	1.9008e+00
53	TSI000001	68.1424	68.7833	68.3819	1.3735e-01	1.9000e+00
54	TSI000002	86.9145	92.2456	89.6633	1.4733e+00	1.9003e+00
55	TSO000001	67.9358	68.6861	68.3601	2.0062e-01	1.9000e+00
56	TSO000002	75.5293	76.3790	75.9117	2.0571e-01	1.9000e+00
57	TAF020136	95.4819	96.3220	95.8814	2.1305e-01	1.9005e+00
58	TAF120312	137.2424	138.6561	138.0101	3.2697e-01	1.9031e+00
59	TAF130312	144.3466	145.0500	144.6965	1.9796e-01	1.9038e+00
60	EMPTY	1.7969	1.8066	1.7994	2.6543e-03	0.0000e+00
61	EMPTY	1.8018	1.8066	1.8029	2.1065e-03	0.0000e+00
62	EMPTY	1.8018	1.8115	1.8064	1.3811e-03	0.0000e+00
63	EMPTY	1.8115	1.8164	1.8141	2.4642e-03	0.0000e+00
64	EMPTY	0.9375	0.9424	0.9397	2.4583e-03	0.0000e+00
65	EMPTY	0.9570	0.9619	0.9587	2.3365e-03	0.0000e+00
66	EMPTY	0.9717	0.9766	0.9719	9.6655e-04	0.0000e+00
67	EMPTY	0.9863	0.9912	0.9896	2.3365e-03	0.0000e+00
68	EMPTY	0.9961	1.0059	1.0009	1.2041e-03	0.0000e+00
69	EMPTY	1.0156	1.0156	1.0156	0.0000e+00	0.0000e+00
70	EMPTY	1.0254	1.0303	1.0294	1.8950e-03	0.0000e+00
71	EMPTY	1.0449	1.0547	1.0494	1.6624e-03	0.0000e+00
72	EMPTY	1.0596	1.0645	1.0603	1.7115e-03	0.0000e+00
73	EMPTY	1.0742	1.0840	1.0786	1.7784e-03	0.0000e+00
74	EMPTY	1.0889	1.0938	1.0913	2.4662e-03	0.0000e+00
75	EMPTY	1.1035	1.1084	1.1081	1.1714e-03	0.0000e+00
76	EMPTY	1.1182	1.1230	1.1189	1.8082e-03	0.0000e+00
77	EMPTY	1.1279	1.1377	1.1372	1.7784e-03	0.0000e+00
78	EMPTY	1.1523	1.1621	1.1571	1.5566e-03	0.0000e+00
79	EMPTY	1.1768	1.1816	1.1769	6.9053e-04	0.0000e+00
80	PAN020136	-9.2227	-8.7649	-8.9633	1.0567e-01	8.7029e-01
81	PAN050136	-18.5726	-17.5045	-18.0508	1.9274e-01	1.6806e+00
82	PAN070136	-11.0741	-10.5400	-10.7841	1.1115e-01	8.7042e-01
83	PAN080136	-6.8605	-6.4790	-6.6529	8.0151e-02	8.7016e-01
84	PAN090136	-6.8429	-6.4614	-6.5987	8.0092e-02	8.7016e-01
85	PAN100136	-7.0028	-6.6213	-6.8013	8.4086e-02	8.7017e-01
86	PAN105136	-3.1244	-2.8192	-2.9733	7.6278e-02	8.7003e-01
87	PAN110136	-2.7971	-2.3393	-2.5530	8.9877e-02	8.7002e-01
88	PAN115136	-2.2191	-1.9139	-2.0329	8.8759e-02	8.7001e-01
89	PAN120136	-1.8654	-1.5603	-1.6640	7.6698e-02	8.7001e-01
90	PAN125136	-3.2094	-2.9043	-3.0462	6.5413e-02	8.7003e-01
91	PAN130136	-4.2437	-4.0911	-4.1445	5.3948e-02	8.7006e-01
92	PAN120048	-8.2909	-7.9095	-8.1033	8.3305e-02	8.7024e-01
93	PAN130048	-5.0880	-4.7066	-4.9034	9.3872e-02	8.7009e-01
94	PAN120224	-5.0412	-4.7360	-4.8840	9.1721e-02	8.7009e-01
95	PAN130224	-5.8759	-5.5707	-5.6790	8.3134e-02	8.7012e-01
96	PAN120312	-7.4693	-7.0878	-7.2633	9.1514e-02	8.7019e-01
97	PAN130312	-5.8687	-5.4872	-5.6245	8.7193e-02	8.7011e-01
98	PAB000136	40.0908	40.3654	40.2473	5.7822e-02	5.8866e-01
99	PAB100136	42.1076	42.2907	42.2119	4.5345e-02	5.8952e-01
100	PAB125136	42.6516	42.7889	42.7111	4.7383e-02	5.8975e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.8366	40.2028	40.0124	1.0510e-01	7.5664e-01
102	PRV0000001	19.7186	19.8406	19.7235	2.4164e-02	7.5162e-01
103	PSR0000001	42.4962	42.7404	42.6451	6.1852e-02	7.5754e-01
104	PFM0000001	9.1482	9.5144	9.3954	9.1084e-02	5.0055e-01
105	PAN000136	-75.0289	-70.4512	-73.0696	1.1403e+00	4.9234e+00
106	PFM0000002	9.3292	9.5474	9.4437	5.6390e-02	2.0139e-01
107	EMPTY	0.0000	0.0049	0.0045	1.3381e-03	0.0000e+00
108	EMPTY	-10.0000	-0.8691	-6.8698	2.7770e+00	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	VPW0000001	131.5655	132.1514	131.8741	1.3141e-01	1.1323e+00
113	VPW0000002	144.4486	144.8393	144.5854	1.5409e-01	1.1869e+00
114	VPW0000003	118.0439	118.4345	118.1572	1.1223e-01	1.0764e+00
115	VPW0000004	98.9896	99.3802	99.2006	1.1049e-01	1.0052e+00
116	VPW0000005	108.0829	108.6689	108.2900	1.2731e-01	1.0384e+00
117	VPW0000006	160.1225	160.9037	160.3921	1.6217e-01	1.2579e+00
118	IPW0000001	1063.7269	1069.5840	1065.9918	1.4947e+00	1.1685e+01
119	IPW0000002	803.2101	809.0639	805.8250	1.4543e+00	1.0302e+01
120	IPW0000003	659.1375	663.0375	662.0624	1.1982e+00	9.6419e+00
121	IPW0000004	532.8181	533.7946	533.0917	2.6396e-01	4.6622e+00
122	IPW0000005	592.2354	594.1883	592.8892	4.2551e-01	5.0930e+00
123	IPW0000006	428.1006	430.0537	428.9304	5.2432e-01	3.9348e+00
124	EMPTY	-0.0293	-0.0098	-0.0208	4.1631e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0144	2.8608e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0171	3.4527e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.5786e-03	0.0000e+00
128	IHT0000001	126.1869	128.5306	127.4409	5.5676e-01	4.2935e+00
129	IHT0000002	129.8640	132.4031	131.1610	5.7826e-01	4.3047e+00
130	IHT0000003	129.7964	132.5308	131.0737	5.6526e-01	4.3044e+00
131	IHT0000004	141.7931	144.3322	142.7150	5.8399e-01	4.3413e+00
132	IHT0000005	139.6672	142.2063	140.6242	5.7892e-01	4.3345e+00
133	IHT0000006	134.4464	136.7901	135.3213	5.2532e-01	4.3175e+00
134	IHT0000007	128.2790	130.4274	129.1657	5.1631e-01	4.2986e+00
135	IHT0000008	126.8630	129.0114	127.8278	5.0595e-01	4.2946e+00
136	IHT0000009	127.7268	129.6800	128.5316	4.7783e-01	4.2967e+00
137	IHT0000010	117.3002	119.8392	118.4017	4.7311e-01	4.2675e+00
138	IHT0000011	115.5649	117.9087	116.6352	4.7390e-01	4.2627e+00
139	IHT0000012	113.7883	116.3274	114.7297	5.4346e-01	4.2575e+00
140	IHT0000013	93.2505	95.3989	93.9888	4.8051e-01	4.2064e+00
141	IHT0000014	119.9181	122.2619	120.8868	4.7998e-01	4.2745e+00
142	IHT0000015	97.0102	99.3540	97.9751	4.7745e-01	4.2154e+00
143	IHT0000016	85.8286	87.9770	86.8716	4.4224e-01	4.1910e+00
144	IHT0000017	103.5908	105.9345	104.5166	5.3497e-01	4.2311e+00
145	IHT0000018	106.2275	108.9619	107.4033	6.0036e-01	4.2383e+00
146	IHT0000019	113.3714	115.5198	114.3675	5.1031e-01	4.2565e+00
147	IHT0000020	116.9771	119.3209	118.0240	5.4642e-01	4.2665e+00
148	IHT0000021	-2.8283	-0.2892	-1.7267	6.0844e-01	4.1000e+00
149	IHT0000022	96.3980	98.9371	97.5620	4.9750e-01	4.2145e+00
150	IHT0000023	114.4456	116.9847	115.5511	5.0318e-01	4.2597e+00
151	IHT0000024	80.2772	82.6209	81.4490	4.6689e-01	4.1801e+00
152	IHT0000025	102.5428	104.6913	103.5936	4.6670e-01	4.2288e+00
153	IHT0000026	103.9063	105.6641	104.8125	4.2820e-01	4.2319e+00
154	IHT0000027	87.0455	88.8033	87.9283	4.7061e-01	4.1932e+00
155	IHT0000028	88.4240	90.9631	89.6779	5.8539e-01	4.1969e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.6396	106.1786	104.8974	5.6519e-01	4.2321e+00
157	IHT000030	106.0096	108.5487	107.1581	5.5753e-01	4.2377e+00
158	IHT000031	94.9594	97.4985	95.9243	5.7779e-01	4.2107e+00
159	IHT000032	95.5980	98.5276	96.9534	6.2066e-01	4.2131e+00
160	IHT000033	95.5829	98.7079	96.8994	6.2242e-01	4.2130e+00
161	IHT000034	88.2474	90.0053	89.1655	4.6563e-01	4.1958e+00
162	IHT000035	116.4025	118.3556	117.4181	5.0686e-01	4.2648e+00
163	IHT000036	86.9479	89.0963	87.9009	5.0322e-01	4.1932e+00

Velocity 1 = 0.066600 (ft/sec)
 Velocity 2 = 0.068600 (ft/sec)
 Pressure Drop = 0.036400 (psi)
 Tsat in = 0.259613 (deg F) Tsat out = 0.302307 (deg F)
 Phi inner = 1.673599 (kBtu/hr-ft2) Phi outer = 0.539299 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0724	0.0945
1	TRF000002	0.0932	0.1211
2	TFM000001	0.8582	0.9874
3	TIN000001	0.8818	1.0224
4	TRV000001	0.9059	1.0390
5	TSR000001	2.4383	2.1199
6	TAO020136	2.5243	4.4377
7	TAO050136	1.1114	0.7359
8	TAO070136	1.2045	0.7893
9	TAO080136	1.1022	0.6424
10	TAO090136	1.3170	0.7454
11	TAO100136	1.2414	0.7096
12	TAO105136	1.2460	0.6992
13	TAO110136	1.2711	0.6889
14	TAO115136	1.2642	0.7052
15	TAO120136	1.2833	0.6858
16	TAO125136	1.2334	1.1276
17	TAO130136	1.1811	0.6467
18	TAO120048	1.4892	1.6648
19	TAO130048	1.2428	0.7109
20	TAO120224	1.2056	0.6812
21	TAO130224	1.3367	0.7998
22	TAO120312	1.1562	0.6884
23	TAO130312	1.1580	0.7014
24	TRT020000	0.9117	0.6519
25	TRT070000	0.9672	0.6176
26	TRT100000	1.0933	0.6548
27	TRT120000	1.2953	0.7524
28	TRT125000	1.1790	1.4204
29	TRT130000	1.2226	0.7273
30	EMPTY	0.0551	0.1387
31	TAF050136	1.0809	0.9633
32	TAF070136	5.9192	2.9541
33	TAF080136	1.3994	0.8269
34	TAF090136	0.6298	0.7626
35	TAF100136	1.2468	0.8968
36	TAF105136	1.3237	0.9349
37	TAF110136	1.2220	0.8446
38	TAF115136	1.2244	0.8251
39	TAF120136	1.3048	0.7870
40	TAF125136	1.1699	0.7621
41	TAF130136	1.2693	0.8135
42	TAF120048	1.3086	0.9142
43	TAF130048	1.2217	0.8216
44	TAF120224	0.9616	0.6727
45	TAF130224	1.3450	0.9281

#	Name	Abs Diff	%Diff
46	EMPTY	0.0874	0.2293
47	EMPTY	0.0000	0.0000
48	TAI130048	1.3118	0.7592
49	TAI130136	1.3744	0.7436
50	TAI130224	1.2735	0.7645
51	TAI130312	1.3902	0.8330
52	TRR130000	0.8261	0.7839
53	TSI000001	0.0868	0.1268
54	TSI000002	0.2569	0.2857
55	TSO000001	0.0195	0.0285
56	TSO000002	0.0319	0.0420
57	TAF020136	0.9725	1.0247
58	TAF120312	1.1125	0.8127
59	TAF130312	1.0975	0.7643
60	EMPTY	0.0254	1.4318
61	EMPTY	0.0245	1.3776
62	EMPTY	0.0247	1.3863
63	EMPTY	0.0239	1.3350
64	EMPTY	0.0108	1.1627
65	EMPTY	0.0108	1.1394
66	EMPTY	0.0099	1.0291
67	EMPTY	0.0118	1.2068
68	EMPTY	0.0100	1.0092
69	EMPTY	0.0097	0.9643
70	EMPTY	0.0098	0.9612
71	EMPTY	0.0095	0.9136
72	EMPTY	0.0102	0.9713
73	EMPTY	0.0094	0.8792
74	EMPTY	0.0090	0.8316
75	EMPTY	0.0096	0.8739
76	EMPTY	0.0104	0.9382
77	EMPTY	0.0093	0.8245
78	EMPTY	0.0094	0.8190
79	EMPTY	0.0096	0.8224
80	PAN020136	0.1496	1.6974
81	PAN050136	0.3021	1.7021
82	PAN070136	0.2395	2.2713
83	PAN080136	0.1403	2.1543
84	PAN090136	0.0274	0.4170
85	PAN100136	0.1144	1.7108
86	PAN105136	0.0320	1.0648
87	PAN110136	0.1542	6.4282
88	PAN115136	0.0793	4.0592
89	PAN120136	0.0748	4.7068
90	PAN125136	0.0061	0.2006
91	PAN130136	0.0305	0.7414
92	PAN120048	0.0733	0.9128
93	PAN130048	0.1282	2.6847
94	PAN120224	0.0763	1.5870
95	PAN130224	0.1113	1.9990
96	PAN120312	0.1389	1.9496
97	PAN130312	0.0931	1.6831
98	PAB000136	0.1749	0.4365
99	PAB100136	0.1794	0.4268
100	PAB125136	0.2142	0.5040

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1391	0.3489
102	PRV000001	0.1586	0.7977
103	PSR000001	0.1782	0.4196
104	PFM000001	0.1630	1.7053
105	PAN000136	1.0071	1.3975
106	PFM000002	0.1684	1.7520
107	EMPTY	0.0004	9.7561
108	EMPTY	1.5523	18.4313
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.2227	0.1692
113	VPW000002	0.0703	0.0486
114	VPW000003	0.1914	0.1623
115	VPW000004	0.0273	0.0275
116	VPW000005	0.0703	0.0650
117	VPW000006	0.0391	0.0244
118	IPW000001	23.7405	2.1786
119	IPW000002	30.4400	3.9258
120	IPW000003	27.9239	4.4034
121	IPW000004	4.7558	0.8842
122	IPW000005	4.1982	0.7131
123	IPW000006	3.0273	0.7108
124	EMPTY	0.0011	5.0228
125	EMPTY	0.0001	0.6897
126	EMPTY	0.0015	8.0645
127	EMPTY	0.0004	2.3256
128	IHT000001	0.2773	0.2171
129	IHT000002	0.2539	0.1932
130	IHT000003	0.1993	0.1518
131	IHT000004	0.0625	0.0438
132	IHT000005	0.1015	0.0721
133	IHT000006	0.0547	0.0404
134	IHT000007	0.1484	0.1148
135	IHT000008	0.1289	0.1007
136	IHT000009	0.2500	0.1941
137	IHT000010	0.0937	0.0792
138	IHT000011	0.1250	0.1073
139	IHT000012	0.1133	0.0988
140	IHT000013	0.0313	0.0333
141	IHT000014	0.0742	0.0614
142	IHT000015	0.0078	0.0080
143	IHT000016	0.0156	0.0180
144	IHT000017	0.4882	0.4649
145	IHT000018	0.0625	0.0582
146	IHT000019	0.0586	0.0512
147	IHT000020	0.0195	0.0165
148	IHT000021	0.1953	12.7530
149	IHT000022	0.1914	0.1958
150	IHT000023	0.0625	0.0541
151	IHT000024	0.0664	0.0815
152	IHT000025	0.0664	0.0641
153	IHT000026	0.0703	0.0670
154	IHT000027	0.0469	0.0533
155	IHT000028	0.1953	0.2183

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2148	0.2052
157	IHT000030	0.1954	0.1827
158	IHT000031	0.0859	0.0896
159	IHT000032	0.0586	0.0605
160	IHT000033	0.0625	0.0645
161	IHT000034	0.0899	0.1009
162	IHT000035	0.2227	0.1900
163	IHT000036	0.0898	0.1023

Velocity 1 = 6.9865 (ft/sec) (+/- 3.7770 %)
Velocity 2 = 6.9813 (ft/sec) (+/- 2.0702 %)
Pressure drop = -3.2484 (psi)
Tsats in = 267.7592 (deg F) Tsats out = 272.0617 (deg F)
Phi inner = 97.8749 (kBtu/hr-ft2) (+/- 1.5941 %)
Phi outer = 100.8977 (kBtu/hr-ft2) (+/- 1.4810 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.6311	77.0570	76.8398	1.6931e-01	1.9000e+00
1	TRF000002	76.9401	77.3636	77.1688	1.2720e-01	1.9000e+00
2	TFM000001	87.4395	88.2790	87.8491	1.9576e-01	1.9002e+00
3	TIN000001	86.8937	87.5253	87.1906	1.4213e-01	1.9002e+00
4	TRV000001	87.6011	88.4392	88.1226	2.2115e-01	1.9002e+00
5	TSR000001	116.7450	118.4825	117.5035	4.4103e-01	1.9015e+00
6	TAO020136	57.8855	59.3944	58.6854	3.7777e-01	1.9001e+00
7	TAO050136	159.0085	159.9002	159.4344	2.1847e-01	1.9054e+00
8	TAO070136	159.5265	160.9218	160.1584	3.1883e-01	1.9055e+00
9	TAO080136	182.4140	183.4848	182.8527	1.9608e-01	1.9086e+00
10	TAO090136	187.5835	188.3618	187.9280	1.8032e-01	1.9093e+00
11	TAO100136	186.3566	187.2334	186.7251	2.0848e-01	1.9092e+00
12	TAO105136	189.8103	190.5894	190.2563	2.1464e-01	1.9097e+00
13	TAO110136	196.3884	197.0633	196.7677	1.7570e-01	1.9108e+00
14	TAO115136	191.1186	191.9941	191.5953	2.2506e-01	1.9099e+00
15	TAO120136	200.1140	200.8871	200.4485	1.6353e-01	1.9114e+00
16	TAO125136	112.9751	114.0022	113.4905	2.3988e-01	1.9013e+00
17	TAO130136	195.0337	195.6129	195.3444	1.5119e-01	1.9106e+00
18	TAO120048	91.7215	92.9772	92.4979	3.2937e-01	1.9003e+00
19	TAO130048	186.2354	186.9169	186.5993	1.4963e-01	1.9091e+00
20	TAO120224	188.3246	189.2009	188.7550	1.9969e-01	1.9095e+00
21	TAO130224	178.2703	179.1474	178.6901	2.0565e-01	1.9079e+00
22	TAO120312	178.4117	179.0988	178.7790	1.7495e-01	1.9080e+00
23	TAO130312	175.4275	176.2122	175.8375	1.8456e-01	1.9075e+00
24	TRT020000	145.8719	146.8779	146.4494	2.2801e-01	1.9039e+00
25	TRT070000	164.4750	165.2710	164.9104	1.6327e-01	1.9061e+00
26	TRT100000	176.5995	177.4816	177.1148	1.8763e-01	1.9077e+00
27	TRT120000	183.2285	183.9117	183.6133	1.6440e-01	1.9087e+00
28	TRT125000	83.8763	84.5058	84.1816	1.7403e-01	1.9001e+00
29	TRT130000	178.2802	178.9660	178.6428	1.4711e-01	1.9079e+00
30	EMPTY	39.1464	40.0646	39.6791	2.4732e-01	1.9011e+00
31	TAF050136	116.3570	117.5857	116.9000	2.2391e-01	1.9015e+00
32	TAF070136	126.7675	127.9850	127.4796	2.8475e-01	1.9022e+00
33	TAF080136	178.9455	180.6961	179.7259	3.6097e-01	1.9081e+00
34	TAF090136	82.6478	84.0174	83.3201	3.0677e-01	1.9001e+00
35	TAF100136	146.7405	147.9461	147.4496	2.2731e-01	1.9040e+00
36	TAF105136	150.1369	151.2310	150.6528	2.6835e-01	1.9044e+00
37	TAF110136	153.3431	154.2393	153.7712	1.9427e-01	1.9047e+00
38	TAF115136	157.2735	158.3660	157.8671	2.5811e-01	1.9052e+00
39	TAF120136	177.2913	178.3669	177.8919	2.5191e-01	1.9078e+00
40	TAF125136	163.0147	164.1935	163.6729	2.7777e-01	1.9059e+00
41	TAF130136	166.1412	166.9318	166.5819	1.9376e-01	1.9063e+00
42	TAF120048	151.7908	153.2976	152.4443	2.9911e-01	1.9046e+00
43	TAF130048	157.7176	158.8107	158.3718	2.2999e-01	1.9053e+00
44	TAF120224	150.7843	151.9827	151.4055	2.5542e-01	1.9045e+00
45	TAF130224	154.5006	155.2011	154.7750	1.6649e-01	1.9048e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0572	2.0676e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5689	9.6846e-02	1.9011e+00
48	TAI130048	184.2063	185.6697	184.9189	3.5097e-01	1.9089e+00
49	TAI130136	197.4587	198.3279	197.8473	2.1476e-01	1.9110e+00
50	TAI130224	176.8095	178.2842	177.5469	3.3312e-01	1.9078e+00
51	TAI130312	178.0443	179.0260	178.5019	2.4338e-01	1.9079e+00
52	TRR130000	103.7395	105.5964	104.7033	3.4304e-01	1.9008e+00
53	TSI000001	68.0369	68.7833	68.4783	1.6841e-01	1.9000e+00
54	TSI000002	87.8588	92.6639	90.0886	1.0861e+00	1.9003e+00
55	TSO000001	67.8286	68.6856	68.3276	1.9671e-01	1.9000e+00
56	TSO000002	76.1665	77.1207	76.6773	2.3143e-01	1.9000e+00
57	TAF020136	96.9517	97.8946	97.3312	2.1987e-01	1.9005e+00
58	TAF120312	144.3911	145.4963	144.8514	2.6543e-01	1.9038e+00
59	TAF130312	151.9477	153.2436	152.4922	2.4029e-01	1.9046e+00
60	EMPTY	1.9775	1.9922	1.9846	2.9856e-03	0.0000e+00
61	EMPTY	1.9824	1.9922	1.9873	1.7086e-03	0.0000e+00
62	EMPTY	1.9873	1.9922	1.9891	2.3675e-03	0.0000e+00
63	EMPTY	1.9922	2.0020	1.9963	2.2839e-03	0.0000e+00
64	EMPTY	1.0205	1.0254	1.0207	9.6655e-04	0.0000e+00
65	EMPTY	1.0400	1.0449	1.0401	6.9053e-04	0.0000e+00
66	EMPTY	1.0498	1.0547	1.0546	6.9053e-04	0.0000e+00
67	EMPTY	1.0693	1.0742	1.0695	9.6655e-04	0.0000e+00
68	EMPTY	1.0791	1.0840	1.0799	1.8082e-03	0.0000e+00
69	EMPTY	1.0938	1.0986	1.0968	2.3941e-03	0.0000e+00
70	EMPTY	1.1035	1.1084	1.1083	6.9053e-04	0.0000e+00
71	EMPTY	1.1230	1.1328	1.1280	1.2041e-03	0.0000e+00
72	EMPTY	1.1377	1.1426	1.1395	2.3675e-03	0.0000e+00
73	EMPTY	1.1523	1.1572	1.1570	9.6655e-04	0.0000e+00
74	EMPTY	1.1670	1.1719	1.1697	2.4484e-03	0.0000e+00
75	EMPTY	1.1816	1.1914	1.1856	2.1364e-03	0.0000e+00
76	EMPTY	1.1914	1.1963	1.1961	9.6655e-04	0.0000e+00
77	EMPTY	1.2109	1.2305	1.2136	3.4470e-03	0.0000e+00
78	EMPTY	1.2305	1.2354	1.2332	2.4484e-03	0.0000e+00
79	EMPTY	1.2500	1.2549	1.2527	2.4484e-03	0.0000e+00
80	PAN020136	-11.2063	-10.6722	-10.9225	1.0459e-01	8.7043e-01
81	PAN050136	-22.0821	-21.4718	-21.7770	1.2710e-01	1.6809e+00
82	PAN070136	-13.6681	-13.2103	-13.4697	9.9892e-02	8.7065e-01
83	PAN080136	-7.8523	-7.5471	-7.6997	7.5511e-02	8.7021e-01
84	PAN090136	-7.9110	-7.6058	-7.7538	7.1321e-02	8.7022e-01
85	PAN100136	-8.1472	-7.7657	-7.8954	7.7453e-02	8.7022e-01
86	PAN105136	-3.7347	-3.4295	-3.5836	6.8048e-02	8.7005e-01
87	PAN110136	-3.3312	-2.8734	-3.1358	8.6041e-02	8.7004e-01
88	PAN115136	-3.0583	-2.7531	-2.9011	7.1321e-02	8.7003e-01
89	PAN120136	-2.6284	-2.3995	-2.4971	6.9001e-02	8.7002e-01
90	PAN125136	-3.8198	-3.5909	-3.7374	7.5259e-02	8.7005e-01
91	PAN130136	-4.6252	-4.3200	-4.3978	7.9332e-02	8.7007e-01
92	PAN120048	-9.2065	-8.9013	-9.0844	8.4424e-02	8.7030e-01
93	PAN130048	-6.5376	-6.0798	-6.3362	8.6865e-02	8.7014e-01
94	PAN120224	-6.4908	-6.1093	-6.3336	8.4999e-02	8.7014e-01
95	PAN130224	-7.1729	-6.7914	-6.9348	8.3916e-02	8.7017e-01
96	PAN120312	-8.3085	-8.0033	-8.1208	8.4719e-02	8.7024e-01
97	PAN130312	-7.0894	-6.8605	-6.9353	6.0664e-02	8.7017e-01
98	PAB000136	40.1365	40.3654	40.2628	5.9621e-02	5.8867e-01
99	PAB100136	42.5653	42.7484	42.6578	4.2872e-02	5.8972e-01
100	PAB125136	43.2009	43.3382	43.2595	4.5345e-02	5.9000e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9587	40.4470	40.1491	9.9140e-02	7.5669e-01
102	PRV000001	19.5965	19.7186	19.6111	4.0071e-02	7.5160e-01
103	PSR000001	43.2286	43.3507	43.3043	5.9853e-02	7.5777e-01
104	PFM000001	7.2256	7.5918	7.3812	9.1084e-02	5.0034e-01
105	PAN000136	-91.9661	-87.8463	-89.9336	9.1627e-01	4.9251e+00
106	PFM000002	7.2821	7.4499	7.3700	4.0900e-02	2.0085e-01
107	EMPTY	-0.0049	0.0049	0.0046	1.5314e-03	0.0000e+00
108	EMPTY	-10.0000	-2.2754	-5.3059	2.7837e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0030	2.3941e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0098	0.0001	1.5566e-03	0.0000e+00
112	VPW000001	131.5655	131.9561	131.7725	1.3901e-01	1.1319e+00
113	VPW000002	144.2533	144.6440	144.5034	1.0470e-01	1.1865e+00
114	VPW000003	117.4579	118.2392	117.8408	2.0105e-01	1.0752e+00
115	VPW000004	98.9896	99.3802	99.2163	1.0705e-01	1.0052e+00
116	VPW000005	108.0829	108.4736	108.2978	1.2633e-01	1.0384e+00
117	VPW000006	160.3178	160.9037	160.4936	1.2001e-01	1.2583e+00
118	IPW000001	1083.2504	1089.1074	1085.5151	1.6434e+00	1.1796e+01
119	IPW000002	768.0872	773.9410	770.8192	1.3656e+00	1.0134e+01
120	IPW000003	629.8875	635.7375	632.6174	1.7618e+00	9.5177e+00
121	IPW000004	537.7009	539.1657	538.2284	4.2818e-01	4.6989e+00
122	IPW000005	588.3295	590.2824	589.1304	4.4944e-01	5.0657e+00
123	IPW000006	424.1943	425.6591	425.0632	3.5962e-01	3.9085e+00
124	EMPTY	-0.0244	-0.0098	-0.0173	3.5854e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0116	2.9413e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0132	3.5908e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.7121e-03	0.0000e+00
128	IHT000001	126.5775	128.5306	127.6479	4.3627e-01	4.2941e+00
129	IHT000002	130.2547	132.2078	131.2274	4.6436e-01	4.3049e+00
130	IHT000003	130.1870	132.1402	131.1362	4.6857e-01	4.3046e+00
131	IHT000004	141.7931	144.1369	142.7931	5.3473e-01	4.3415e+00
132	IHT000005	139.8625	141.6203	140.7648	4.8950e-01	4.3349e+00
133	IHT000006	134.4464	136.5948	135.4424	5.0262e-01	4.3179e+00
134	IHT000007	128.4743	130.4274	129.2438	5.1510e-01	4.2989e+00
135	IHT000008	127.0583	129.2067	127.8981	5.1486e-01	4.2949e+00
136	IHT000009	127.5315	129.6800	128.6019	5.1936e-01	4.2970e+00
137	IHT000010	117.3002	119.8392	118.5502	5.9712e-01	4.2680e+00
138	IHT000011	115.5649	117.9087	116.7173	6.0522e-01	4.2629e+00
139	IHT000012	113.7883	116.1321	114.6750	5.9348e-01	4.2574e+00
140	IHT000013	93.0552	95.3989	94.0317	5.7453e-01	4.2064e+00
141	IHT000014	119.9181	121.8712	120.8673	5.5103e-01	4.2744e+00
142	IHT000015	96.8149	99.1587	97.9829	5.4030e-01	4.2155e+00
143	IHT000016	86.0239	88.1723	86.9848	4.9574e-01	4.1913e+00
144	IHT000017	105.3486	107.4970	106.5517	5.4869e-01	4.2362e+00
145	IHT000018	106.4228	108.3759	107.4619	5.1060e-01	4.2385e+00
146	IHT000019	113.5667	116.1058	114.5394	5.1673e-01	4.2570e+00
147	IHT000020	117.3678	119.7115	118.1763	4.9444e-01	4.2669e+00
148	IHT000021	-2.2424	0.8827	-1.2697	6.5375e-01	4.1000e+00
149	IHT000022	96.9839	99.7183	97.8511	4.9152e-01	4.2151e+00
150	IHT000023	114.8363	117.5706	115.7855	5.3816e-01	4.2604e+00
151	IHT000024	80.8631	83.5975	81.6521	5.1894e-01	4.1805e+00
152	IHT000025	102.7381	105.2772	103.7147	5.2348e-01	4.2291e+00
153	IHT000026	103.7109	106.4453	104.9727	5.4277e-01	4.2322e+00
154	IHT000027	87.4362	89.3893	88.2681	5.1571e-01	4.1939e+00
155	IHT000028	88.8146	90.7677	89.7131	5.1900e-01	4.1970e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.8349	106.1786	104.8193	5.5798e-01	4.2319e+00
157	IHT000030	106.2049	108.5487	107.1190	5.8586e-01	4.2376e+00
158	IHT000031	95.1547	97.1079	96.1040	5.1450e-01	4.2111e+00
159	IHT000032	96.1839	98.1370	97.1644	5.3596e-01	4.2136e+00
160	IHT000033	95.9736	98.1220	97.1181	5.3235e-01	4.2135e+00
161	IHT000034	88.2474	90.0053	89.1928	4.2565e-01	4.1959e+00
162	IHT000035	116.4025	118.3556	117.3087	4.5636e-01	4.2645e+00
163	IHT000036	87.1432	88.7057	87.8970	4.3586e-01	4.1932e+00

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sum2

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Velocity 1 = 6.9074 (ft/sec) (+/- 3.8481 %)

Velocity 2 = 6.9122 (ft/sec) (+/- 2.0850 %)

Pressure drop = -3.2653 (psi)

Tsats in = 267.8460 (deg F) Tsats out = 272.2247 (deg F)

Phi inner = 100.2877 (kBtu/hr-ft2) (+/- 1.5764 %)

Phi outer = 101.4857 (kBtu/hr-ft2) (+/- 1.4761 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	76.6311	77.4827	76.9633	1.8828e-01	1.9000e+00
1	TRF0000002	77.1519	77.5753	77.3128	1.1762e-01	1.9000e+00
2	TFM0000001	87.4409	88.3845	87.8475	1.8428e-01	1.9002e+00
3	TIN0000001	86.6836	87.4205	87.1718	1.5742e-01	1.9002e+00
4	TRV0000001	87.7061	88.6490	88.1465	2.0946e-01	1.9002e+00
5	TSR0000001	119.1952	120.7263	119.8804	3.5271e-01	1.9017e+00
6	TAO020136	58.8551	60.2556	59.6352	3.0505e-01	1.9001e+00
7	TAO050136	159.4053	160.4926	159.9352	2.2948e-01	1.9054e+00
8	TAO070136	160.1241	161.6188	160.7942	2.8762e-01	1.9055e+00
9	TAO080136	183.3867	184.1668	183.7681	1.5364e-01	1.9087e+00
10	TAO090136	188.2635	189.3332	188.7926	2.1966e-01	1.9095e+00
11	TAO100136	187.1355	187.9140	187.4704	1.9370e-01	1.9093e+00
12	TAO105136	190.4923	191.5628	190.9278	2.2440e-01	1.9098e+00
13	TAO110136	197.3495	198.0213	197.6299	1.6108e-01	1.9109e+00
14	TAO115136	192.1876	193.0629	192.5418	2.0567e-01	1.9101e+00
15	TAO120136	200.8871	201.9475	201.3267	2.2584e-01	1.9116e+00
16	TAO125136	113.6931	114.9268	114.2769	2.4762e-01	1.9013e+00
17	TAO130136	195.6096	196.5706	196.1345	1.6743e-01	1.9107e+00
18	TAO120048	93.6027	94.8576	94.1297	3.1295e-01	1.9004e+00
19	TAO130048	187.0136	187.7908	187.3588	1.5619e-01	1.9093e+00
20	TAO120224	189.1031	189.9789	189.5116	2.0047e-01	1.9096e+00
21	TAO130224	179.5349	180.3134	179.8651	1.7930e-01	1.9081e+00
22	TAO120312	179.0006	179.9818	179.4794	2.1588e-01	1.9081e+00
23	TAO130312	176.1130	177.0946	176.5291	1.8333e-01	1.9076e+00
24	TRT020000	146.3752	147.3809	146.9100	2.3559e-01	1.9040e+00
25	TRT070000	165.0713	165.8675	165.4815	2.2082e-01	1.9061e+00
26	TRT100000	177.2844	178.1665	177.7509	2.0978e-01	1.9078e+00
27	TRT120000	183.9112	184.7903	184.2943	2.3394e-01	1.9088e+00
28	TRT125000	85.9684	86.7030	86.2918	1.8895e-01	1.9002e+00
29	TRT130000	178.8670	179.6516	179.3137	1.5717e-01	1.9080e+00
30	EMPTY	39.1464	40.0646	39.6745	2.1875e-01	1.9011e+00
31	TAF050136	116.5622	117.5857	117.1317	2.0694e-01	1.9015e+00
32	TAF070136	127.4787	128.3895	127.9682	1.8803e-01	1.9023e+00
33	TAF080136	179.7253	181.5727	180.6883	4.5844e-01	1.9082e+00
34	TAF090136	84.1213	85.0695	84.5051	2.2272e-01	1.9001e+00
35	TAF100136	147.6445	148.6491	148.0662	2.2961e-01	1.9041e+00
36	TAF105136	150.5358	151.8277	151.2350	2.8505e-01	1.9044e+00
37	TAF110136	153.8407	154.8344	154.3421	2.0086e-01	1.9048e+00
38	TAF115136	158.0677	158.9607	158.5162	2.3503e-01	1.9053e+00
39	TAF120136	178.0733	179.2449	178.6789	2.7752e-01	1.9079e+00
40	TAF125136	163.9971	164.9835	164.5443	2.2674e-01	1.9060e+00
41	TAF130136	166.7337	167.5245	167.1877	1.6452e-01	1.9064e+00
42	TAF120048	152.2936	153.5995	153.0527	2.7834e-01	1.9046e+00
43	TAF130048	158.5123	159.4074	158.9778	2.1378e-01	1.9053e+00
44	TAF120224	151.6823	152.5817	152.0423	2.4946e-01	1.9045e+00
45	TAF130224	155.0014	156.1019	155.3734	1.9393e-01	1.9049e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	2.1910e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6057	1.2270e-01	1.9011e+00
48	TAI130048	184.8897	186.4498	185.7791	3.5224e-01	1.9090e+00
49	TAI130136	198.2302	199.0994	198.6860	2.2732e-01	1.9111e+00
50	TAI130224	177.4981	178.8736	178.2643	2.7003e-01	1.9079e+00
51	TAI130312	178.8299	179.8106	179.3670	2.1994e-01	1.9080e+00
52	TRR130000	103.6362	104.8759	104.2938	3.2688e-01	1.9008e+00
53	TSI000001	68.0380	68.8916	68.4854	1.9742e-01	1.9000e+00
54	TSI000002	87.7533	92.8724	90.0119	1.2700e+00	1.9003e+00
55	TSO000001	67.8282	68.7923	68.2951	2.1616e-01	1.9000e+00
56	TSO000002	76.2720	77.1217	76.6458	2.0473e-01	1.9000e+00
57	TAF020136	96.6362	97.8946	97.3160	2.6891e-01	1.9005e+00
58	TAF120312	144.5925	145.8964	145.3315	3.0732e-01	1.9038e+00
59	TAF130312	152.6458	154.1414	153.1325	2.8883e-01	1.9047e+00
60	EMPTY	1.9873	2.0068	1.9955	3.8762e-03	0.0000e+00
61	EMPTY	1.9922	2.0068	1.9984	2.7971e-03	0.0000e+00
62	EMPTY	1.9971	2.0117	1.9997	3.3029e-03	0.0000e+00
63	EMPTY	2.0020	2.0117	2.0062	2.4184e-03	0.0000e+00
64	EMPTY	1.0254	1.0352	1.0271	2.5648e-03	0.0000e+00
65	EMPTY	1.0449	1.0498	1.0455	1.6028e-03	0.0000e+00
66	EMPTY	1.0596	1.0645	1.0597	6.9053e-04	0.0000e+00
67	EMPTY	1.0742	1.0791	1.0750	1.8082e-03	0.0000e+00
68	EMPTY	1.0840	1.0889	1.0861	2.4484e-03	0.0000e+00
69	EMPTY	1.0986	1.1035	1.1021	2.2603e-03	0.0000e+00
70	EMPTY	1.1133	1.1182	1.1135	9.6655e-04	0.0000e+00
71	EMPTY	1.1279	1.1377	1.1331	1.5314e-03	0.0000e+00
72	EMPTY	1.1426	1.1475	1.1461	2.2146e-03	0.0000e+00
73	EMPTY	1.1621	1.1670	1.1624	1.1714e-03	0.0000e+00
74	EMPTY	1.1719	1.1768	1.1762	1.6028e-03	0.0000e+00
75	EMPTY	1.1865	1.1914	1.1912	9.6655e-04	0.0000e+00
76	EMPTY	1.1963	1.2061	1.2013	1.2041e-03	0.0000e+00
77	EMPTY	1.2158	1.2207	1.2200	1.7115e-03	0.0000e+00
78	EMPTY	1.2354	1.2402	1.2399	1.1714e-03	0.0000e+00
79	EMPTY	1.2549	1.2598	1.2595	1.1714e-03	0.0000e+00
80	PAN020136	-11.2826	-10.7485	-11.1514	1.1119e-01	8.7045e-01
81	PAN050136	-22.2347	-21.6244	-21.9601	1.4784e-01	1.6809e+00
82	PAN070136	-13.8206	-13.4392	-13.6757	1.1142e-01	8.7067e-01
83	PAN080136	-7.9286	-7.6234	-7.7668	8.3916e-02	8.7022e-01
84	PAN090136	-8.0636	-7.6821	-7.8393	8.3590e-02	8.7022e-01
85	PAN100136	-8.0709	-7.8420	-7.9442	6.8257e-02	8.7023e-01
86	PAN105136	-3.7347	-3.3532	-3.6035	8.9929e-02	8.7005e-01
87	PAN110136	-3.4075	-3.1023	-3.2137	7.4258e-02	8.7004e-01
88	PAN115136	-3.0583	-2.7531	-2.9118	7.2033e-02	8.7003e-01
89	PAN120136	-2.7047	-2.3995	-2.5658	7.0111e-02	8.7002e-01
90	PAN125136	-4.3538	-3.6672	-4.1280	2.3475e-01	8.7006e-01
91	PAN130136	-4.5489	-3.8622	-4.1033	2.0000e-01	8.7006e-01
92	PAN120048	-9.3591	-8.9013	-9.1378	7.7453e-02	8.7030e-01
93	PAN130048	-6.5376	-6.2324	-6.4186	6.7469e-02	8.7015e-01
94	PAN120224	-6.5671	-6.2619	-6.4068	7.5904e-02	8.7015e-01
95	PAN130224	-7.1729	-6.8677	-7.0188	9.1825e-02	8.7018e-01
96	PAN120312	-8.3848	-8.0033	-8.1865	9.9892e-02	8.7024e-01
97	PAN130312	-7.2420	-6.8605	-7.0314	9.0614e-02	8.7018e-01
98	PAB000136	40.2281	40.4112	40.3214	5.6224e-02	5.8869e-01
99	PAB100136	42.6569	42.8400	42.7530	5.5682e-02	5.8977e-01
100	PAB125136	43.2924	43.4756	43.3767	5.0958e-02	5.9005e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0808	40.5690	40.2492	1.2054e-01	7.5672e-01
102	PRV000001	19.5965	19.8406	19.7064	4.4460e-02	7.5162e-01
103	PSR000001	43.2286	43.4728	43.4020	6.5667e-02	7.5781e-01
104	PFM000001	7.0425	7.4087	7.2128	9.9624e-02	5.0033e-01
105	PAN000136	-93.7972	-87.8463	-90.4005	1.0828e+00	4.9252e+00
106	PFM000002	7.1311	7.3492	7.2230	4.6511e-02	2.0081e-01
107	EMPTY	0.0000	0.0098	0.0047	1.3811e-03	0.0000e+00
108	EMPTY	-10.0000	-0.7373	-4.8617	2.4695e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	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	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	131.5655	132.1514	131.8897	1.2232e-01	1.1324e+00
113	VPW000002	144.4486	145.0346	144.6635	1.2633e-01	1.1872e+00
114	VPW000003	118.0439	118.2392	118.1064	9.2034e-02	1.0762e+00
115	VPW000004	98.9896	99.5756	99.2514	1.1578e-01	1.0054e+00
116	VPW000005	108.0829	108.4736	108.3017	1.1599e-01	1.0384e+00
117	VPW000006	160.3178	160.7084	160.4819	1.1409e-01	1.2583e+00
118	IPW000001	1059.8223	1065.6793	1062.6335	1.8568e+00	1.1665e+01
119	IPW000002	805.1614	812.9664	810.2347	1.6254e+00	1.0324e+01
120	IPW000003	661.0875	666.9375	663.8566	1.3120e+00	9.6496e+00
121	IPW000004	529.4001	534.2829	531.9589	1.5615e+00	4.6541e+00
122	IPW000005	591.2589	592.7236	592.3035	3.8214e-01	5.0887e+00
123	IPW000006	429.0771	431.0302	429.7117	3.5908e-01	3.9401e+00
124	EMPTY	-0.0293	-0.0098	-0.0187	4.6990e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0114	3.0581e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0129	4.4947e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	3.3540e-03	0.0000e+00
128	IHT000001	126.7728	128.5306	127.5346	4.8528e-01	4.2938e+00
129	IHT000002	130.2547	131.8172	131.0633	4.2501e-01	4.3044e+00
130	IHT000003	130.1870	132.1402	131.0972	4.1687e-01	4.3045e+00
131	IHT000004	141.5978	143.7462	142.6446	4.6314e-01	4.3411e+00
132	IHT000005	139.6672	141.8157	140.5968	4.6111e-01	4.3344e+00
133	IHT000006	134.4464	136.2042	135.2862	4.1806e-01	4.3174e+00
134	IHT000007	128.2790	129.8415	129.1579	3.9508e-01	4.2986e+00
135	IHT000008	127.0583	128.6208	127.8473	3.5063e-01	4.2947e+00
136	IHT000009	127.5315	129.2894	128.5433	4.1515e-01	4.2968e+00
137	IHT000010	117.8861	120.0345	118.6166	4.8458e-01	4.2681e+00
138	IHT000011	116.1509	118.1040	116.8540	4.1760e-01	4.2633e+00
139	IHT000012	113.9836	116.1321	114.8781	4.2880e-01	4.2579e+00
140	IHT000013	93.4458	95.3989	94.1177	4.0847e-01	4.2066e+00
141	IHT000014	120.5041	122.2619	121.0040	3.6627e-01	4.2748e+00
142	IHT000015	97.4008	99.1587	98.0376	3.6976e-01	4.2156e+00
143	IHT000016	86.2192	87.7817	87.0044	3.5401e-01	4.1913e+00
144	IHT000017	104.3720	107.8876	106.3447	6.9838e-01	4.2357e+00
145	IHT000018	106.8134	108.7665	107.5439	4.0971e-01	4.2387e+00
146	IHT000019	113.7620	115.9105	114.6644	5.4660e-01	4.2573e+00
147	IHT000020	117.3678	119.3209	118.3482	5.2865e-01	4.2674e+00
148	IHT000021	-2.6330	0.2967	-1.1759	6.5934e-01	4.1000e+00
149	IHT000022	96.9839	99.1324	97.9175	4.9917e-01	4.2153e+00
150	IHT000023	115.0316	117.3753	115.9535	5.0846e-01	4.2608e+00
151	IHT000024	80.8631	83.0116	81.7576	4.7366e-01	4.1807e+00
152	IHT000025	102.9334	105.2772	103.9061	4.6604e-01	4.2296e+00
153	IHT000026	103.9063	106.8359	105.0938	5.1575e-01	4.2325e+00
154	IHT000027	87.0455	89.3893	88.2408	4.4580e-01	4.1939e+00
155	IHT000028	88.6193	90.7677	89.7326	4.8368e-01	4.1970e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.0302	105.9833	104.9521	4.8011e-01	4.2322e+00
157	IHT000030	106.4002	108.1580	107.2752	4.7226e-01	4.2380e+00
158	IHT000031	95.1547	97.1079	96.0688	4.6091e-01	4.2110e+00
159	IHT000032	95.9886	98.3323	97.1097	5.0657e-01	4.2134e+00
160	IHT000033	95.9736	98.1220	97.0634	4.5693e-01	4.2133e+00
161	IHT000034	88.4428	90.2006	89.2045	4.4161e-01	4.1959e+00
162	IHT000035	116.5978	118.7462	117.3868	4.4636e-01	4.2647e+00
163	IHT000036	87.1432	89.2916	87.9048	4.1806e-01	4.1932e+00

Velocity 1 = 0.079100 (ft/sec)
 Velocity 2 = 0.069100 (ft/sec)
 Pressure Drop = 0.016900 (psi)
 Tsat in = 0.086823 (deg F) Tsat out = 0.162994 (deg F)
 Phi inner = 2.412796 (kBtu/hr-ft2) Phi outer = 0.588005 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1235	0.1607
1	TRF000002	0.1440	0.1866
2	TFM000001	0.0016	0.0018
3	TIN000001	0.0188	0.0216
4	TRV000001	0.0239	0.0271
5	TSR000001	2.3769	2.0228
6	TAO020136	0.9498	1.6185
7	TAO050136	0.5008	0.3141
8	TAO070136	0.6358	0.3970
9	TAO080136	0.9154	0.5006
10	TAO090136	0.8646	0.4601
11	TAO100136	0.7453	0.3991
12	TAO105136	0.6715	0.3529
13	TAO110136	0.8622	0.4382
14	TAO115136	0.9465	0.4940
15	TAO120136	0.8782	0.4381
16	TAO125136	0.7864	0.6929
17	TAO130136	0.7901	0.4045
18	TAO120048	1.6318	1.7641
19	TAO130048	0.7595	0.4070
20	TAO120224	0.7566	0.4008
21	TAO130224	1.1750	0.6576
22	TAO120312	0.7004	0.3918
23	TAO130312	0.6916	0.3933
24	TRT020000	0.4606	0.3145
25	TRT070000	0.5711	0.3463
26	TRT100000	0.6361	0.3591
27	TRT120000	0.6810	0.3709
28	TRT125000	2.1102	2.5067
29	TRT130000	0.6709	0.3756
30	EMPTY	0.0046	0.0116
31	TAF050136	0.2317	0.1982
32	TAF070136	0.4886	0.3833
33	TAF080136	0.9624	0.5355
34	TAF090136	1.1850	1.4222
35	TAF100136	0.6166	0.4182
36	TAF105136	0.5822	0.3865
37	TAF110136	0.5709	0.3713
38	TAF115136	0.6491	0.4112
39	TAF120136	0.7870	0.4424
40	TAF125136	0.8714	0.5324
41	TAF130136	0.6058	0.3637
42	TAF120048	0.6084	0.3991
43	TAF130048	0.6060	0.3826
44	TAF120224	0.6368	0.4206
45	TAF130224	0.5984	0.3866

#	Name	Abs Diff	%Diff
46	EMPTY	0.0552	0.1450
47	EMPTY	0.0368	0.0930
48	TAI130048	0.8602	0.4652
49	TAI130136	0.8387	0.4239
50	TAI130224	0.7174	0.4041
51	TAI130312	0.8651	0.4846
52	TRR130000	0.4095	0.3911
53	TSI000001	0.0071	0.0104
54	TSI000002	0.0767	0.0851
55	TSO000001	0.0325	0.0476
56	TSO000002	0.0315	0.0411
57	TAF020136	0.0152	0.0156
58	TAF120312	0.4801	0.3314
59	TAF130312	0.6403	0.4199
60	EMP	0.0109	0.5492
61	EMP	0.0111	0.5585
62	EMPTY	0.0106	0.5329
63	EMPTY	0.0099	0.4959
64	EMPTY	0.0064	0.6270
65	EMPTY	0.0054	0.5192
66	EMPTY	0.0051	0.4836
67	EMPTY	0.0055	0.5143
68	EMPTY	0.0062	0.5741
69	EMPTY	0.0053	0.4832
70	EMPTY	0.0052	0.4692
71	EMPTY	0.0051	0.4521
72	EMPTY	0.0066	0.5792
73	EMPTY	0.0054	0.4667
74	EMPTY	0.0065	0.5557
75	EMPTY	0.0056	0.4723
76	EMPTY	0.0052	0.4347
77	EMPTY	0.0064	0.5274
78	EMPTY	0.0067	0.5433
79	EMPTY	0.0068	0.5428
80	PAN020136	0.2289	2.0957
81	PAN050136	0.1831	0.8408
82	PAN070136	0.2060	1.5294
83	PAN080136	0.0671	0.8715
84	PAN090136	0.0855	1.1027
85	PAN100136	0.0488	0.6181
86	PAN105136	0.0199	0.5553
87	PAN110136	0.0779	2.4842
88	PAN115136	0.0107	0.3688
89	PAN120136	0.0687	2.7512
90	PAN125136	0.3906	10.4511
91	PAN130136	0.2945	6.6965
92	PAN120048	0.0534	0.5878
93	PAN130048	0.0824	1.3005
94	PAN120224	0.0732	1.1557
95	PAN130224	0.0840	1.2113
96	PAN120312	0.0657	0.8090
97	PAN130312	0.0961	1.3857
98	PAB000136	0.0586	0.1455
99	PAB100136	0.0952	0.2232
100	PAB125136	0.1172	0.2709

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1001	0.2493
102	PRV000001	0.0953	0.4860
103	PSR000001	0.0977	0.2256
104	PFM000001	0.1684	2.2815
105	PAN000136	0.4669	0.5192
106	PFM000002	0.1470	1.9946
107	EMPTY	0.0001	2.1739
108	EMPTY	0.4442	8.3718
109	EMPTY	0.0007	23.3333
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	200.0000
112	VPW000001	0.1172	0.0889
113	VPW000002	0.1601	0.1108
114	VPW000003	0.2656	0.2254
115	VPW000004	0.0351	0.0354
116	VPW000005	0.0039	0.0036
117	VPW000006	0.0117	0.0073
118	IPW000001	22.8816	2.1079
119	IPW000002	39.4155	5.1135
120	IPW000003	31.2393	4.9381
121	IPW000004	6.2695	1.1648
122	IPW000005	3.1732	0.5386
123	IPW000006	4.6485	1.0936
124	EMPTY	0.0014	8.0925
125	EMPTY	0.0002	1.7241
126	EMPTY	0.0003	2.2727
127	EMPTY	0.0010	5.9524
128	IHT000001	0.1133	0.0888
129	IHT000002	0.1641	0.1251
130	IHT000003	0.0390	0.0297
131	IHT000004	0.1485	0.1040
132	IHT000005	0.1680	0.1193
133	IHT000006	0.1562	0.1153
134	IHT000007	0.0859	0.0665
135	IHT000008	0.0508	0.0397
136	IHT000009	0.0586	0.0456
137	IHT000010	0.0664	0.0560
138	IHT000011	0.1367	0.1171
139	IHT000012	0.2031	0.1771
140	IHT000013	0.0860	0.0915
141	IHT000014	0.1367	0.1131
142	IHT000015	0.0547	0.0558
143	IHT000016	0.0196	0.0225
144	IHT000017	0.2070	0.1943
145	IHT000018	0.0820	0.0763
146	IHT000019	0.1250	0.1091
147	IHT000020	0.1719	0.1455
148	IHT000021	0.0938	7.3876
149	IHT000022	0.0664	0.0679
150	IHT000023	0.1680	0.1451
151	IHT000024	0.1055	0.1292
152	IHT000025	0.1914	0.1845
153	IHT000026	0.1211	0.1154
154	IHT000027	0.0273	0.0309
155	IHT000028	0.0195	0.0217

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1328	0.1267
157	IHT000030	0.1562	0.1458
158	IHT000031	0.0352	0.0366
159	IHT000032	0.0547	0.0563
160	IHT000033	0.0547	0.0563
161	IHT000034	0.0117	0.0131
162	IHT000035	0.0781	0.0666
163	IHT000036	0.0078	0.0089

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Velocity 1 = 6.0951 (ft/sec) (+/- 4.7700 %)
Velocity 2 = 6.0959 (ft/sec) (+/- 2.3194 %)
Pressure drop = -3.7213 (psi)
Tsat in = 267.7226 (deg F) Tsat out = 272.7179 (deg F)
Phi inner = 98.8960 (kBtu/hr-ft2) (+/- 1.5926 %)
Phi outer = 100.7157 (kBtu/hr-ft2) (+/- 1.4784 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.8441	77.4827	77.1549	1.8353e-01	1.9000e+00
1	TRF000002	77.3636	77.7870	77.5076	1.2425e-01	1.9000e+00
2	TFM000001	87.4417	88.2812	87.8629	2.1669e-01	1.9002e+00
3	TIN000001	86.9990	87.5255	87.2330	1.2990e-01	1.9002e+00
4	TRV000001	87.7081	88.5461	88.1833	2.3095e-01	1.9002e+00
5	TSR000001	120.7237	121.6413	121.1668	2.1961e-01	1.9018e+00
6	TAO020136	60.1477	61.5461	61.0791	3.5007e-01	1.9001e+00
7	TAO050136	167.7776	168.9570	168.3420	2.4548e-01	1.9065e+00
8	TAO070136	168.1771	169.0695	168.7026	2.1023e-01	1.9066e+00
9	TAO080136	194.0248	194.7018	194.2632	1.5545e-01	1.9104e+00
10	TAO090136	200.2527	201.1207	200.6176	1.8002e-01	1.9115e+00
11	TAO100136	198.5647	199.6270	199.1767	2.3849e-01	1.9112e+00
12	TAO105136	202.5077	203.5695	203.0775	2.1555e-01	1.9119e+00
13	TAO110136	209.9495	210.9046	210.4786	2.0138e-01	1.9132e+00
14	TAO115136	204.7634	205.7272	205.2630	2.1991e-01	1.9123e+00
15	TAO120136	214.5259	215.2911	214.9023	1.8378e-01	1.9141e+00
16	TAO125136	121.4680	122.3867	121.9558	2.1762e-01	1.9018e+00
17	TAO130136	209.0994	209.8589	209.4661	1.4894e-01	1.9131e+00
18	TAO120048	94.6471	95.7961	95.3218	2.7263e-01	1.9004e+00
19	TAO130048	199.0909	199.5745	199.3441	1.3644e-01	1.9112e+00
20	TAO120224	201.3964	202.1691	201.7963	1.8500e-01	1.9117e+00
21	TAO130224	191.7020	192.7632	192.1066	2.0765e-01	1.9100e+00
22	TAO120312	190.3334	191.2088	190.7943	2.0322e-01	1.9098e+00
23	TAO130312	187.0335	187.6172	187.3201	1.5786e-01	1.9093e+00
24	TRT020000	152.9992	154.0005	153.4699	2.9598e-01	1.9047e+00
25	TRT070000	173.9053	174.8951	174.4892	2.4163e-01	1.9073e+00
26	TRT100000	187.8062	188.7781	188.2478	2.2650e-01	1.9094e+00
27	TRT120000	195.5633	196.4353	195.9103	2.0691e-01	1.9107e+00
28	TRT125000	86.0741	86.8081	86.4209	1.6438e-01	1.9002e+00
29	TRT130000	189.8662	190.6442	190.1486	1.6922e-01	1.9097e+00
30	EMPTY	39.1464	39.8352	39.6332	1.8918e-01	1.9011e+00
31	TAF050136	120.5443	121.9719	121.3167	2.5080e-01	1.9018e+00
32	TAF070136	133.2331	134.3417	133.7476	2.3050e-01	1.9027e+00
33	TAF080136	190.4659	192.2971	191.5520	4.2626e-01	1.9099e+00
34	TAF090136	85.0682	86.2246	85.6975	2.7572e-01	1.9002e+00
35	TAF100136	155.9550	156.9523	156.4357	2.2237e-01	1.9050e+00
36	TAF105136	159.1379	160.6152	159.8922	3.1460e-01	1.9054e+00
37	TAF110136	162.8508	163.9367	163.3897	2.5345e-01	1.9059e+00
38	TAF115136	167.5553	168.5419	168.0273	2.4012e-01	1.9065e+00
39	TAF120136	190.5069	191.7645	191.0626	3.2291e-01	1.9098e+00
40	TAF125136	174.3689	175.5402	175.0936	2.6606e-01	1.9074e+00
41	TAF130136	177.5337	178.3169	177.9943	1.6096e-01	1.9078e+00
42	TAF120048	161.1096	162.7059	162.0695	3.0748e-01	1.9057e+00
43	TAF130048	168.1100	169.1934	168.5893	2.3054e-01	1.9065e+00
44	TAF120224	160.1336	161.5218	160.9373	2.9587e-01	1.9056e+00
45	TAF130224	164.2812	165.0767	164.6772	1.9521e-01	1.9060e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	2.0380e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5965	7.9792e-02	1.9011e+00
48	TAI130048	197.2228	198.9640	198.0336	3.6582e-01	1.9110e+00
49	TAI130136	211.7507	212.6116	212.1626	1.8942e-01	1.9136e+00
50	TAI130224	188.6600	189.6351	189.1146	2.5199e-01	1.9095e+00
51	TAI130312	190.3555	191.5235	191.0738	2.2997e-01	1.9098e+00
52	TRR130000	101.2616	102.6074	101.8732	2.8536e-01	1.9007e+00
53	TSI000001	68.1447	68.8905	68.5439	1.7351e-01	1.9000e+00
54	TSI000002	88.2786	92.9786	90.0819	1.2314e+00	1.9003e+00
55	TSO000001	67.9348	68.6846	68.3225	1.8971e-01	1.9000e+00
56	TSO000002	77.1201	77.9688	77.5000	1.9641e-01	1.9000e+00
57	TAF020136	98.1043	99.3607	98.8059	2.5236e-01	1.9006e+00
58	TAF120312	152.5008	154.0973	153.2813	3.8022e-01	1.9047e+00
59	TAF130312	161.4871	162.9732	162.2030	2.8943e-01	1.9057e+00
60	EMPTY	2.2070	2.2217	2.2137	3.3829e-03	0.0000e+00
61	EMPTY	2.2119	2.2168	2.2139	2.4164e-03	0.0000e+00
62	EMPTY	2.2070	2.2168	2.2139	2.7902e-03	0.0000e+00
63	EMPTY	2.2119	2.2217	2.2184	2.6908e-03	0.0000e+00
64	EMPTY	1.1182	1.1230	1.1205	2.4642e-03	0.0000e+00
65	EMPTY	1.1377	1.1426	1.1379	9.6655e-04	0.0000e+00
66	EMPTY	1.1475	1.1523	1.1521	1.1714e-03	0.0000e+00
67	EMPTY	1.1670	1.1719	1.1671	6.9053e-04	0.0000e+00
68	EMPTY	1.1768	1.1816	1.1769	6.9053e-04	0.0000e+00
69	EMPTY	1.1914	1.1963	1.1915	6.9053e-04	0.0000e+00
70	EMPTY	1.2012	1.2061	1.2040	2.4344e-03	0.0000e+00
71	EMPTY	1.2207	1.2256	1.2232	2.4642e-03	0.0000e+00
72	EMPTY	1.2305	1.2354	1.2348	1.6028e-03	0.0000e+00
73	EMPTY	1.2451	1.2549	1.2500	1.3951e-03	0.0000e+00
74	EMPTY	1.2598	1.2646	1.2611	2.2146e-03	0.0000e+00
75	EMPTY	1.2744	1.2793	1.2762	2.3675e-03	0.0000e+00
76	EMPTY	1.2842	1.2939	1.2882	2.1364e-03	0.0000e+00
77	EMPTY	1.3037	1.3086	1.3038	6.9053e-04	0.0000e+00
78	EMPTY	1.3135	1.3232	1.3230	1.3811e-03	0.0000e+00
79	EMPTY	1.3379	1.3428	1.3426	9.6655e-04	0.0000e+00
80	PAN020136	-12.8848	-12.5033	-12.7032	9.7351e-02	8.7058e-01
81	PAN050136	-25.2865	-24.5235	-24.9722	1.7000e-01	1.6812e+00
82	PAN070136	-15.9569	-15.6517	-15.8363	8.8666e-02	8.7090e-01
83	PAN080136	-8.9204	-8.4626	-8.7083	9.2854e-02	8.7027e-01
84	PAN090136	-8.8265	-8.5213	-8.6968	6.9362e-02	8.7027e-01
85	PAN100136	-9.0627	-8.5286	-8.6827	9.6861e-02	8.7027e-01
86	PAN105136	-4.2688	-3.8873	-4.1024	9.7106e-02	8.7006e-01
87	PAN110136	-4.0178	-3.7126	-3.8423	7.7453e-02	8.7005e-01
88	PAN115136	-3.6687	-3.3635	-3.5054	7.3938e-02	8.7004e-01
89	PAN120136	-3.3913	-3.1624	-3.2708	7.2444e-02	8.7004e-01
90	PAN125136	-4.7353	-4.4301	-4.5965	6.2970e-02	8.7008e-01
91	PAN130136	-4.9304	-4.6252	-4.7808	7.2231e-02	8.7008e-01
92	PAN120048	-9.9694	-9.6642	-9.8290	7.4498e-02	8.7035e-01
93	PAN130048	-7.6057	-7.3006	-7.4440	7.8049e-02	8.7020e-01
94	PAN120224	-7.5589	-7.2537	-7.4261	8.1284e-02	8.7020e-01
95	PAN130224	-8.2410	-7.8595	-8.0197	8.6165e-02	8.7023e-01
96	PAN120312	-8.9952	-8.6900	-8.8594	8.3419e-02	8.7028e-01
97	PAN130312	-8.1575	-7.8523	-7.9896	6.7187e-02	8.7023e-01
98	PAB000136	40.1365	40.3654	40.2381	5.5712e-02	5.8866e-01
99	PAB100136	42.8858	43.0231	42.9828	3.7725e-02	5.8987e-01
100	PAB125136	43.6587	43.8418	43.7328	4.6139e-02	5.9021e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.8366	40.2028	39.9831	6.9754e-02	7.5663e-01
102	PRV0000001	19.4744	19.8406	19.5867	7.3325e-02	7.5160e-01
103	PSR0000001	43.7169	43.8390	43.7706	6.1209e-02	7.5794e-01
104	PFM0000001	5.3945	5.8523	5.5960	9.4314e-02	5.0020e-01
105	PAN000136	-104.3257	-101.5792	-103.0257	7.5338e-01	4.9267e+00
106	PFM0000002	5.5034	5.6545	5.5974	2.7541e-02	2.0049e-01
107	EMPTY	-0.0049	0.0049	0.0039	2.4164e-03	0.0000e+00
108	EMPTY	-10.0000	-1.9141	-4.7001	1.9944e+00	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	VPW0000001	131.7608	132.1514	131.9287	1.2484e-01	1.1326e+00
113	VPW0000002	144.6440	144.8393	144.7495	9.8332e-02	1.1876e+00
114	VPW0000003	117.8485	118.4345	118.0830	1.1161e-01	1.0761e+00
115	VPW0000004	98.9896	99.3802	99.1928	1.1133e-01	1.0051e+00
116	VPW0000005	107.8876	108.4736	108.2666	1.2731e-01	1.0383e+00
117	VPW0000006	160.1225	160.7084	160.4702	1.0654e-01	1.2582e+00
118	IPW0000001	1075.4410	1085.2028	1079.3062	2.1053e+00	1.1761e+01
119	IPW0000002	781.7462	793.4537	788.3414	2.9471e+00	1.0217e+01
120	IPW0000003	633.7875	639.6375	636.2057	1.3395e+00	9.5326e+00
121	IPW0000004	532.8181	534.7712	533.8729	6.1889e-01	4.6678e+00
122	IPW0000005	586.8648	587.8412	587.2947	3.5068e-01	5.0523e+00
123	IPW0000006	423.2177	425.1709	424.2625	4.7320e-01	3.9030e+00
124	EMPTY	-0.0293	-0.0098	-0.0180	4.2361e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0123	3.9754e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0143	4.3940e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.2359e-03	0.0000e+00
128	IHT0000001	126.3822	129.3119	127.5815	6.0104e-01	4.2939e+00
129	IHT0000002	130.0594	132.5984	131.1297	5.5976e-01	4.3046e+00
130	IHT0000003	129.9917	132.7261	131.1909	5.9058e-01	4.3048e+00
131	IHT0000004	141.4025	144.1369	142.6134	5.5243e-01	4.3410e+00
132	IHT0000005	139.4719	142.0110	140.6007	5.2392e-01	4.3344e+00
133	IHT0000006	134.2511	136.7901	135.3096	4.9770e-01	4.3175e+00
134	IHT0000007	128.2790	130.4274	129.2946	4.8648e-01	4.2990e+00
135	IHT0000008	127.0583	128.8161	127.9371	4.5549e-01	4.2950e+00
136	IHT0000009	127.5315	129.6800	128.6800	5.0477e-01	4.2972e+00
137	IHT0000010	117.4955	119.4486	118.5619	5.1177e-01	4.2680e+00
138	IHT0000011	115.7602	117.9087	116.7759	4.7515e-01	4.2631e+00
139	IHT0000012	113.9836	115.7415	114.8273	4.9196e-01	4.2578e+00
140	IHT0000013	93.0552	95.0083	94.0630	4.5568e-01	4.2065e+00
141	IHT0000014	120.1134	122.4572	121.0431	4.5602e-01	4.2749e+00
142	IHT0000015	97.2055	99.5493	97.9907	4.6770e-01	4.2155e+00
143	IHT0000016	86.0239	88.1723	86.8833	4.5163e-01	4.1910e+00
144	IHT0000017	104.1767	107.8876	106.0166	9.5609e-01	4.2348e+00
145	IHT0000018	106.4228	108.7665	107.4619	5.4454e-01	4.2385e+00
146	IHT0000019	113.3714	115.7151	114.6214	4.9126e-01	4.2572e+00
147	IHT0000020	117.1725	119.1256	118.2740	4.8289e-01	4.2672e+00
148	IHT0000021	-2.6330	-0.0939	-1.1447	5.9042e-01	4.1000e+00
149	IHT0000022	96.5933	98.7418	97.8042	4.9284e-01	4.2150e+00
150	IHT0000023	114.8363	116.9847	115.8910	5.3233e-01	4.2606e+00
151	IHT0000024	80.4725	82.8162	81.6951	5.0349e-01	4.1806e+00
152	IHT0000025	102.7381	104.6913	103.8436	5.1238e-01	4.2295e+00
153	IHT0000026	103.7109	106.2500	105.0352	5.5564e-01	4.2324e+00
154	IHT0000027	87.0455	89.1940	88.1041	5.1764e-01	4.1936e+00
155	IHT0000028	88.6193	90.7677	89.6623	5.9137e-01	4.1969e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.8349	105.9833	104.9560	5.9426e-01	4.2322e+00
157	IHT000030	106.0096	108.3533	107.2401	6.0264e-01	4.2379e+00
158	IHT000031	94.7641	96.9125	96.0180	5.6371e-01	4.2109e+00
159	IHT000032	95.7933	98.1370	97.0784	5.8805e-01	4.2134e+00
160	IHT000033	95.7782	98.1220	97.0244	5.8513e-01	4.2132e+00
161	IHT000034	88.2474	90.3959	89.1967	5.1450e-01	4.1959e+00
162	IHT000035	116.4025	118.3556	117.4337	5.0538e-01	4.2649e+00
163	IHT000036	86.7525	88.7057	87.8892	4.4763e-01	4.1931e+00

Velocity 1 = 6.0952 (ft/sec) (+/- 4.7700 %)
Velocity 2 = 6.0971 (ft/sec) (+/- 2.3190 %)
Pressure drop = -3.7345 (psi)
Tsat in = 267.4383 (deg F) Tsat out = 272.4597 (deg F)
Phi inner = 99.2965 (kBtu/hr-ft2) (+/- 1.5815 %)
Phi outer = 101.2295 (kBtu/hr-ft2) (+/- 1.4786 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.8441	77.6955	77.2443	1.8566e-01	1.9000e+00
1	TRF000002	77.3636	77.7870	77.6304	1.2694e-01	1.9000e+00
2	TFM000001	87.6509	88.4916	88.0142	1.9570e-01	1.9002e+00
3	TIN000001	86.8942	87.6313	87.3509	1.6691e-01	1.9002e+00
4	TRV000001	87.8131	88.7559	88.3637	2.1041e-01	1.9002e+00
5	TSR000001	121.0301	123.1684	121.8593	5.6762e-01	1.9018e+00
6	TAO020136	59.2866	61.4384	60.3176	4.7034e-01	1.9001e+00
7	TAO050136	168.0727	169.0578	168.4880	2.4273e-01	1.9065e+00
8	TAO070136	168.6728	169.8615	169.2492	3.2982e-01	1.9066e+00
9	TAO080136	194.3149	194.9918	194.5491	1.6819e-01	1.9104e+00
10	TAO090136	200.3497	201.3147	200.8106	2.2662e-01	1.9115e+00
11	TAO100136	198.9500	199.8207	199.4778	2.1838e-01	1.9113e+00
12	TAO105136	203.0869	204.0523	203.5791	2.6321e-01	1.9120e+00
13	TAO110136	210.4261	211.4767	210.9052	2.2204e-01	1.9133e+00
14	TAO115136	205.1492	206.1125	205.6751	2.1245e-01	1.9124e+00
15	TAO120136	215.0990	215.8649	215.4759	1.7338e-01	1.9142e+00
16	TAO125136	121.2635	122.9980	122.3110	3.1862e-01	1.9018e+00
17	TAO130136	209.4775	210.5255	209.8647	2.1116e-01	1.9131e+00
18	TAO120048	96.9404	98.1914	97.6058	3.4253e-01	1.9005e+00
19	TAO130048	199.4757	200.1528	199.7218	1.5762e-01	1.9113e+00
20	TAO120224	201.6861	202.7466	202.2359	2.2912e-01	1.9117e+00
21	TAO130224	191.7049	192.7655	192.1231	2.3525e-01	1.9100e+00
22	TAO120312	190.8195	191.8900	191.4362	2.1857e-01	1.9099e+00
23	TAO130312	187.4225	188.2990	187.8254	1.9472e-01	1.9093e+00
24	TRT020000	153.0991	154.1003	153.5618	2.6278e-01	1.9047e+00
25	TRT070000	174.4989	175.7833	175.1849	2.7395e-01	1.9074e+00
26	TRT100000	188.0008	189.0698	188.5588	2.1937e-01	1.9094e+00
27	TRT120000	195.7572	197.0151	196.4404	2.5662e-01	1.9107e+00
28	TRT125000	89.4136	90.1457	89.7585	1.9616e-01	1.9003e+00
29	TRT130000	190.1573	191.1289	190.5174	1.8442e-01	1.9098e+00
30	EMPTY	39.1464	40.0646	39.7296	2.0325e-01	1.9011e+00
31	TAF050136	121.0527	122.0741	121.5210	2.5742e-01	1.9018e+00
32	TAF070136	133.5358	134.6442	134.0584	2.4388e-01	1.9028e+00
33	TAF080136	191.0442	192.6868	191.8266	3.3458e-01	1.9100e+00
34	TAF090136	85.9102	86.8557	86.3699	2.4841e-01	1.9002e+00
35	TAF100136	156.4532	157.3518	156.8707	2.3306e-01	1.9051e+00
36	TAF105136	159.5341	160.7150	160.2673	2.8822e-01	1.9055e+00
37	TAF110136	163.3450	164.2328	163.7966	2.1701e-01	1.9059e+00
38	TAF115136	167.8525	168.7403	168.4097	2.3534e-01	1.9065e+00
39	TAF120136	191.0884	192.3469	191.6161	3.0870e-01	1.9099e+00
40	TAF125136	174.9536	176.1249	175.5504	3.0169e-01	1.9075e+00
41	TAF130136	177.9254	178.8063	178.3389	2.0291e-01	1.9079e+00
42	TAF120048	162.0075	163.2044	162.5121	3.0035e-01	1.9058e+00
43	TAF130048	168.4051	169.6886	168.9523	2.5145e-01	1.9066e+00
44	TAF120224	160.8288	161.9182	161.3536	2.7180e-01	1.9056e+00
45	TAF130224	164.5796	165.3750	164.9672	1.9279e-01	1.9061e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1308	2.2797e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6562	1.0666e-01	1.9011e+00
48	TAI130048	197.9973	199.1572	198.4861	3.4951e-01	1.9111e+00
49	TAI130136	212.2283	212.9943	212.5791	1.9100e-01	1.9136e+00
50	TAI130224	188.8551	190.1226	189.5514	2.8133e-01	1.9096e+00
51	TAI130312	190.7457	192.0094	191.4861	2.7429e-01	1.9099e+00
52	TRR130000	102.8134	104.0539	103.4808	3.2283e-01	1.9008e+00
53	TSI000001	68.1458	68.8922	68.5572	1.9741e-01	1.9000e+00
54	TSI000002	88.9050	91.8319	90.3545	7.2352e-01	1.9003e+00
55	TSO000001	67.8277	68.8984	68.3094	2.2512e-01	1.9000e+00
56	TSO000002	77.1207	77.9687	77.5510	2.0593e-01	1.9000e+00
57	TAF020136	98.4180	99.6750	99.0023	2.7739e-01	1.9006e+00
58	TAF120312	152.9998	154.3964	153.6406	3.2741e-01	1.9047e+00
59	TAF130312	161.8849	163.3696	162.7021	3.3637e-01	1.9058e+00
60	EMPTY	2.2168	2.2314	2.2235	3.1023e-03	0.0000e+00
61	EMPTY	2.2217	2.2266	2.2241	2.4662e-03	0.0000e+00
62	EMPTY	2.2217	2.2266	2.2243	2.4583e-03	0.0000e+00
63	EMPTY	2.2266	2.2314	2.2296	2.3941e-03	0.0000e+00
64	EMPTY	1.1230	1.1279	1.1241	2.0432e-03	0.0000e+00
65	EMPTY	1.1377	1.1475	1.1426	9.8648e-04	0.0000e+00
66	EMPTY	1.1523	1.1572	1.1567	1.4797e-03	0.0000e+00
67	EMPTY	1.1670	1.1719	1.1713	1.6028e-03	0.0000e+00
68	EMPTY	1.1768	1.1865	1.1815	1.2041e-03	0.0000e+00
69	EMPTY	1.1914	1.1963	1.1961	9.6655e-04	0.0000e+00
70	EMPTY	1.2061	1.2109	1.2066	1.6028e-03	0.0000e+00
71	EMPTY	1.2256	1.2305	1.2260	1.3381e-03	0.0000e+00
72	EMPTY	1.2354	1.2402	1.2364	2.0432e-03	0.0000e+00
73	EMPTY	1.2500	1.2549	1.2539	1.9730e-03	0.0000e+00
74	EMPTY	1.2646	1.2646	1.2646	0.0000e+00	0.0000e+00
75	EMPTY	1.2744	1.2842	1.2793	9.8648e-04	0.0000e+00
76	EMPTY	1.2891	1.2939	1.2895	1.3381e-03	0.0000e+00
77	EMPTY	1.3037	1.3086	1.3079	1.7115e-03	0.0000e+00
78	EMPTY	1.3184	1.3281	1.3245	2.3778e-03	0.0000e+00
79	EMPTY	1.3428	1.3477	1.3451	2.4642e-03	0.0000e+00
80	PAN020136	-12.8848	-12.4270	-12.6528	1.0674e-01	8.7057e-01
81	PAN050136	-25.1339	-24.5235	-24.8165	1.3021e-01	1.6811e+00
82	PAN070136	-15.9569	-15.5754	-15.8089	9.1721e-02	8.7090e-01
83	PAN080136	-8.8441	-8.4626	-8.6488	8.4649e-02	8.7027e-01
84	PAN090136	-8.9028	-8.5213	-8.6968	8.0462e-02	8.7027e-01
85	PAN100136	-8.9864	-8.5286	-8.6950	9.8322e-02	8.7027e-01
86	PAN105136	-4.4977	-3.8873	-4.0429	1.1111e-01	8.7006e-01
87	PAN110136	-3.9415	-3.4837	-3.7920	1.0103e-01	8.7005e-01
88	PAN115136	-3.5924	-3.2872	-3.4352	7.6154e-02	8.7004e-01
89	PAN120136	-3.4676	-3.1624	-3.3196	7.2967e-02	8.7004e-01
90	PAN125136	-4.7353	-4.3538	-4.5171	7.5527e-02	8.7007e-01
91	PAN130136	-4.8541	-4.6252	-4.7427	7.2641e-02	8.7008e-01
92	PAN120048	-10.0457	-9.7405	-9.8092	6.5847e-02	8.7035e-01
93	PAN130048	-7.5294	-7.3006	-7.4287	7.9257e-02	8.7020e-01
94	PAN120224	-7.5589	-7.2537	-7.3864	8.2733e-02	8.7020e-01
95	PAN130224	-8.1647	-7.8595	-8.0304	7.1570e-02	8.7023e-01
96	PAN120312	-8.9952	-8.6900	-8.8517	7.0026e-02	8.7028e-01
97	PAN130312	-8.0812	-7.8523	-7.9820	8.1925e-02	8.7023e-01
98	PAB000136	39.9534	40.1365	40.0468	4.3339e-02	5.8858e-01
99	PAB100136	42.7484	42.9315	42.8061	4.7886e-02	5.8979e-01
100	PAB125136	43.4756	43.6587	43.5461	5.0832e-02	5.9013e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.7146	40.2028	40.0344	8.8543e-02	7.5665e-01
102	PRV0000001	19.7186	19.8406	19.8211	4.5206e-02	7.5164e-01
103	PSR0000001	43.5948	43.7169	43.6412	5.9853e-02	7.5789e-01
104	PFM0000001	5.3945	5.7608	5.5960	8.6756e-02	5.0020e-01
105	PAN000136	-105.6990	-101.5792	-103.3919	8.3213e-01	4.9268e+00
106	PFM0000002	5.5202	5.6712	5.5994	3.6202e-02	2.0049e-01
107	EMPTY	-0.0049	0.0049	0.0009	4.0301e-03	0.0000e+00
108	EMPTY	-10.0000	-1.6113	-8.2244	2.2450e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0000	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	VPW0000001	131.5655	132.1514	131.8897	1.2232e-01	1.1324e+00
113	VPW0000002	144.4486	145.0346	144.7299	1.4848e-01	1.1875e+00
114	VPW0000003	117.6532	118.2392	118.0205	1.2251e-01	1.0759e+00
115	VPW0000004	98.9896	99.3802	99.2397	1.1189e-01	1.0053e+00
116	VPW0000005	108.0829	108.6689	108.3603	1.2534e-01	1.0387e+00
117	VPW0000006	160.3178	160.7084	160.5288	1.2378e-01	1.2585e+00
118	IPW0000001	1067.6316	1071.5363	1069.7010	1.4444e+00	1.1706e+01
119	IPW0000002	789.5512	795.4050	793.2976	1.4666e+00	1.0241e+01
120	IPW0000003	651.3375	657.1875	654.4576	1.3066e+00	9.6094e+00
121	IPW0000004	531.8415	532.8181	532.3104	2.7832e-01	4.6566e+00
122	IPW0000005	589.3060	590.7706	590.0190	4.4342e-01	5.0721e+00
123	IPW0000006	427.6123	429.5654	428.2468	4.0971e-01	3.9301e+00
124	EMPTY	-0.0293	-0.0146	-0.0203	3.6057e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.3261e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0166	2.7902e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0175	3.7029e-03	0.0000e+00
128	IHT0000001	126.1869	128.5306	127.3862	5.9583e-01	4.2933e+00
129	IHT0000002	130.0594	132.0125	130.9618	5.3217e-01	4.3041e+00
130	IHT0000003	129.9917	132.1402	130.9995	5.1503e-01	4.3042e+00
131	IHT0000004	141.4025	143.9415	142.5118	5.4881e-01	4.3406e+00
132	IHT0000005	139.6672	141.8157	140.5343	5.0711e-01	4.3342e+00
133	IHT0000006	134.2511	136.5948	135.2510	5.5051e-01	4.3173e+00
134	IHT0000007	128.0837	130.4274	129.2047	4.8618e-01	4.2988e+00
135	IHT0000008	126.6677	128.8161	127.8278	5.0286e-01	4.2946e+00
136	IHT0000009	127.3362	129.6800	128.5355	5.2499e-01	4.2968e+00
137	IHT0000010	117.4955	120.2299	118.6517	6.0082e-01	4.2682e+00
138	IHT0000011	115.7602	118.6899	116.8188	5.8539e-01	4.2632e+00
139	IHT0000012	113.5930	116.5227	114.8586	5.7621e-01	4.2578e+00
140	IHT0000013	92.8598	95.5942	94.0981	5.2735e-01	4.2066e+00
141	IHT0000014	119.5275	122.4572	121.0236	4.9851e-01	4.2749e+00
142	IHT0000015	96.8149	98.9633	98.0493	4.8398e-01	4.2156e+00
143	IHT0000016	85.8286	87.7817	86.9419	4.1244e-01	4.1912e+00
144	IHT0000017	104.5673	106.7158	105.6064	5.0136e-01	4.2338e+00
145	IHT0000018	106.4228	108.5712	107.4111	4.9349e-01	4.2384e+00
146	IHT0000019	113.3714	115.7151	114.6449	5.1333e-01	4.2573e+00
147	IHT0000020	117.1725	119.1256	118.2193	4.7147e-01	4.2670e+00
148	IHT0000021	-2.4377	-0.0939	-1.2931	5.5385e-01	4.1000e+00
149	IHT0000022	96.7886	98.7418	97.8120	4.6280e-01	4.2151e+00
150	IHT0000023	114.6409	116.9847	115.7777	5.0945e-01	4.2603e+00
151	IHT0000024	80.4725	82.6209	81.6131	4.7900e-01	4.1804e+00
152	IHT0000025	102.5428	104.6913	103.7342	5.0107e-01	4.2292e+00
153	IHT0000026	103.7109	106.0547	104.9531	5.3052e-01	4.2322e+00
154	IHT0000027	86.8502	88.9987	88.0259	5.1974e-01	4.1934e+00
155	IHT0000028	88.6193	91.1584	89.6740	5.2050e-01	4.1969e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.8349	106.3740	104.9326	5.0823e-01	4.2321e+00
157	IHT000030	106.0096	108.9393	107.1659	5.2026e-01	4.2377e+00
158	IHT000031	94.9594	97.6938	96.0219	5.0093e-01	4.2109e+00
159	IHT000032	95.9886	98.9183	97.0433	5.1900e-01	4.2133e+00
160	IHT000033	95.9736	98.9032	96.9853	5.1854e-01	4.2131e+00
161	IHT000034	88.2474	90.2006	89.1108	4.0258e-01	4.1957e+00
162	IHT000035	116.4025	117.9650	117.3009	3.4849e-01	4.2645e+00
163	IHT000036	86.9479	88.5104	87.8111	3.8275e-01	4.1930e+00

Velocity 1 = 0.000100 (ft/sec)
 Velocity 2 = 0.001200 (ft/sec)
 Pressure Drop = 0.013200 (psi)
 Tsat in = 0.284302 (deg F) Tsat out = 0.258209 (deg F)
 Phi inner = 0.400497 (kBtu/hr-ft2) Phi outer = 0.513802 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0894	0.1159
1	TRF000002	0.1228	0.1584
2	TFM000001	0.1513	0.1722
3	TIN000001	0.1179	0.1352
4	TRV000001	0.1804	0.2046
5	TSR000001	0.6925	0.5715
6	TAO020136	0.7615	1.2467
7	TAO050136	0.1460	0.0867
8	TAO070136	0.5466	0.3240
9	TAO080136	0.2859	0.1472
10	TAO090136	0.1930	0.0962
11	TAO100136	0.3011	0.1512
12	TAO105136	0.5016	0.2470
13	TAO110136	0.4266	0.2027
14	TAO115136	0.4121	0.2008
15	TAO120136	0.5736	0.2669
16	TAO125136	0.3552	0.2912
17	TAO130136	0.3986	0.1903
18	TAO120048	2.2840	2.3961
19	TAO130048	0.3777	0.1895
20	TAO120224	0.4396	0.2178
21	TAO130224	0.0165	0.0086
22	TAO120312	0.6419	0.3364
23	TAO130312	0.5053	0.2697
24	TRT020000	0.0919	0.0599
25	TRT070000	0.6957	0.3987
26	TRT100000	0.3110	0.1652
27	TRT120000	0.5301	0.2706
28	TRT125000	3.3376	3.8620
29	TRT130000	0.3688	0.1939
30	EMPTY	0.0964	0.2432
31	TAF050136	0.2043	0.1684
32	TAF070136	0.3108	0.2324
33	TAF080136	0.2746	0.1434
34	TAF090136	0.6724	0.7846
35	TAF100136	0.4350	0.2781
36	TAF105136	0.3751	0.2346
37	TAF110136	0.4069	0.2490
38	TAF115136	0.3824	0.2276
39	TAF120136	0.5535	0.2897
40	TAF125136	0.4568	0.2609
41	TAF130136	0.3446	0.1936
42	TAF120048	0.4426	0.2731
43	TAF130048	0.3630	0.2153
44	TAF120224	0.4163	0.2587
45	TAF130224	0.2900	0.1761

#	Name	Abs Diff	%Diff
46	EMPTY	0.0184	0.0483
47	EMPTY	0.0597	0.1508
48	TAI130048	0.4525	0.2285
49	TAI130136	0.4165	0.1963
50	TAI130224	0.4368	0.2310
51	TAI130312	0.4123	0.2158
52	TRR130000	1.6076	1.5780
53	TSI000001	0.0133	0.0194
54	TSI000002	0.2726	0.3026
55	TSO000001	0.0131	0.0192
56	TSO000002	0.0510	0.0658
57	TAF020136	0.1964	0.1988
58	TAF120312	0.3593	0.2344
59	TAF130312	0.4991	0.3077
60	EMPTY	0.0098	0.4427
61	EMPTY	0.0102	0.4607
62	EMPTY	0.0104	0.4698
63	EMPTY	0.0112	0.5049
64	EMPTY	0.0036	0.3213
65	EMPTY	0.0047	0.4130
66	EMPTY	0.0046	0.3993
67	EMPTY	0.0042	0.3599
68	EMPTY	0.0046	0.3909
69	EMPTY	0.0046	0.3861
70	EMPTY	0.0026	0.2159
71	EMPTY	0.0028	0.2289
72	EMPTY	0.0016	0.1296
73	EMPTY	0.0039	0.3120
74	EMPTY	0.0035	0.2775
75	EMPTY	0.0031	0.2429
76	EMPTY	0.0013	0.1009
77	EMPTY	0.0041	0.3145
78	EMPTY	0.0015	0.1134
79	EMPTY	0.0025	0.1862
80	PAN020136	0.0504	0.3968
81	PAN050136	0.1557	0.6235
82	PAN070136	0.0274	0.1730
83	PAN080136	0.0595	0.6833
84	PAN090136	0.0000	0.0000
85	PAN100136	0.0123	0.1417
86	PAN105136	0.0595	1.4504
87	PAN110136	0.0503	1.3091
88	PAN115136	0.0702	2.0026
89	PAN120136	0.0488	1.4920
90	PAN125136	0.0794	1.7274
91	PAN130136	0.0381	0.7969
92	PAN120048	0.0198	0.2014
93	PAN130048	0.0153	0.2055
94	PAN120224	0.0397	0.5346
95	PAN130224	0.0107	0.1334
96	PAN120312	0.0077	0.0869
97	PAN130312	0.0076	0.0951
98	PAB000136	0.1913	0.4754
99	PAB100136	0.1767	0.4111
100	PAB125136	0.1867	0.4269

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0513	0.1283
102	PRV000001	0.2344	1.1967
103	PSR000001	0.1294	0.2956
104	PFM000001	0.0000	0.0000
105	PAN000136	0.3662	0.3554
106	PFM000002	0.0020	0.0357
107	EMPTY	0.0030	76.9231
108	EMPTY	3.5243	74.9835
109	EMPTY	0.0029	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0390	0.0296
113	VPW000002	0.0196	0.0135
114	VPW000003	0.0625	0.0529
115	VPW000004	0.0469	0.0473
116	VPW000005	0.0937	0.0865
117	VPW000006	0.0586	0.0365
118	IPW000001	9.6051	0.8899
119	IPW000002	4.9562	0.6287
120	IPW000003	18.2519	2.8689
121	IPW000004	1.5625	0.2927
122	IPW000005	2.7243	0.4639
123	IPW000006	3.9843	0.9391
124	EMPTY	0.0023	12.7778
125	EMPTY	0.0012	9.7561
126	EMPTY	0.0023	16.0839
127	EMPTY	0.0011	6.7073
128	IHT000001	0.1953	0.1531
129	IHT000002	0.1679	0.1280
130	IHT000003	0.1914	0.1459
131	IHT000004	0.1016	0.0712
132	IHT000005	0.0664	0.0472
133	IHT000006	0.0586	0.0433
134	IHT000007	0.0899	0.0695
135	IHT000008	0.1093	0.0854
136	IHT000009	0.1445	0.1123
137	IHT000010	0.0898	0.0757
138	IHT000011	0.0429	0.0367
139	IHT000012	0.0313	0.0273
140	IHT000013	0.0351	0.0373
141	IHT000014	0.0195	0.0161
142	IHT000015	0.0586	0.0598
143	IHT000016	0.0586	0.0674
144	IHT000017	0.4102	0.3869
145	IHT000018	0.0508	0.0473
146	IHT000019	0.0235	0.0205
147	IHT000020	0.0547	0.0463
148	IHT000021	0.1484	12.9641
149	IHT000022	0.0078	0.0080
150	IHT000023	0.1133	0.0978
151	IHT000024	0.0820	0.1004
152	IHT000025	0.1094	0.1053
153	IHT000026	0.0821	0.0782
154	IHT000027	0.0782	0.0888
155	IHT000028	0.0117	0.0131

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0234	0.0223
157	IHT000030	0.0742	0.0692
158	IHT000031	0.0039	0.0041
159	IHT000032	0.0351	0.0362
160	IHT000033	0.0391	0.0403
161	IHT000034	0.0859	0.0963
162	IHT000035	0.1328	0.1131
163	IHT000036	0.0781	0.0889

Velocity 1 = 5.0028 (ft/sec) (+/- 6.8821 %)
 Velocity 2 = 5.0049 (ft/sec) (+/- 2.9259 %)
 Pressure drop = -4.2927 (psi)
 Tsat in = 267.6764 (deg F) Tsat out = 273.6669 (deg F)
 Phi inner = 99.8693 (kBtu/hr-ft2) (+/- 1.5789 %)
 Phi outer = 101.6927 (kBtu/hr-ft2) (+/- 1.4763 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.0570	77.6955	77.4912	1.8722e-01	1.9000e+00
1	TRF000002	77.5753	77.9986	77.8209	1.3082e-01	1.9000e+00
2	TFM000001	87.7572	88.4911	88.1430	1.8043e-01	1.9002e+00
3	TIN000001	87.1043	87.9465	87.5216	1.7397e-01	1.9002e+00
4	TRV000001	88.0236	88.8613	88.4384	2.0279e-01	1.9002e+00
5	TSR000001	121.6427	124.5917	123.3999	8.7227e-01	1.9019e+00
6	TAO020136	60.9005	62.4057	61.6146	3.5134e-01	1.9000e+00
7	TAO050136	182.5282	183.8894	183.2793	2.5939e-01	1.9086e+00
8	TAO070136	182.7723	184.2431	183.4864	3.6147e-01	1.9087e+00
9	TAO080136	212.5059	213.3647	212.8306	1.7768e-01	1.9137e+00
10	TAO090136	220.3380	221.2902	220.7840	2.2670e-01	1.9153e+00
11	TAO100136	218.0221	219.8319	218.9138	5.3857e-01	1.9149e+00
12	TAO105136	222.8304	224.4485	223.6490	4.0104e-01	1.9158e+00
13	TAO110136	231.3813	232.4134	231.8988	2.2373e-01	1.9176e+00
14	TAO115136	225.7133	227.0428	226.2456	3.1529e-01	1.9164e+00
15	TAO120136	237.4923	238.6224	237.8620	2.2678e-01	1.9189e+00
16	TAO125136	133.2439	134.2566	133.7264	2.1307e-01	1.9027e+00
17	TAO130136	231.8127	233.1202	232.3793	2.1468e-01	1.9177e+00
18	TAO120048	97.9821	99.1281	98.5950	2.8113e-01	1.9006e+00
19	TAO130048	220.4921	221.2532	220.9828	1.7336e-01	1.9153e+00
20	TAO120224	222.6458	223.5970	223.1443	1.8392e-01	1.9157e+00
21	TAO130224	211.9520	213.0926	212.5719	2.3750e-01	1.9136e+00
22	TAO120312	211.3944	212.3536	211.9620	2.2084e-01	1.9135e+00
23	TAO130312	207.0028	207.7701	207.3786	1.7542e-01	1.9127e+00
24	TRT020000	164.3661	165.5575	165.0095	3.0028e-01	1.9061e+00
25	TRT070000	190.4324	191.5070	190.8781	2.5145e-01	1.9098e+00
26	TRT100000	206.9961	207.8593	207.3987	1.7445e-01	1.9127e+00
27	TRT120000	216.2119	217.1666	216.6894	2.4001e-01	1.9144e+00
28	TRT125000	88.7909	89.6263	89.3461	1.8710e-01	1.9003e+00
29	TRT130000	209.6105	210.4730	210.0367	1.5281e-01	1.9132e+00
30	EMPTY	39.1464	40.0646	39.6745	2.2360e-01	1.9011e+00
31	TAF050136	128.3666	129.7856	128.9153	3.2756e-01	1.9023e+00
32	TAF070136	143.5694	145.1697	144.3539	3.2785e-01	1.9037e+00
33	TAF080136	206.9543	209.9096	208.2793	7.1399e-01	1.9128e+00
34	TAF090136	86.1203	87.2762	86.6500	2.6412e-01	1.9002e+00
35	TAF100136	171.0438	173.2142	171.9001	4.7190e-01	1.9070e+00
36	TAF105136	175.0086	177.2505	176.1823	4.9485e-01	1.9076e+00
37	TAF110136	179.4273	181.4738	180.5242	4.0085e-01	1.9082e+00
38	TAF115136	185.0779	186.3427	185.7432	3.4004e-01	1.9090e+00
39	TAF120136	210.2951	213.7296	211.7314	5.5768e-01	1.9135e+00
40	TAF125136	194.3119	195.7543	195.0424	3.0769e-01	1.9105e+00
41	TAF130136	197.6392	198.6038	198.1752	2.0374e-01	1.9110e+00
42	TAF120048	178.2793	179.7575	178.9767	3.4879e-01	1.9080e+00
43	TAF130048	185.8433	187.2064	186.4624	2.9159e-01	1.9091e+00
44	TAF120224	176.4906	177.4712	177.0241	2.5047e-01	1.9077e+00
45	TAF130224	181.5780	182.3638	181.9552	1.9571e-01	1.9084e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	2.4649e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.6837	1.0983e-01	1.9011e+00
48	TAI130048	219.7764	221.5868	220.5697	3.8506e-01	1.9152e+00
49	TAI130136	235.6208	236.4686	236.0202	2.0170e-01	1.9185e+00
50	TAI130224	208.9039	209.9625	209.4969	2.8581e-01	1.9131e+00
51	TAI130312	211.8920	212.9475	212.4296	2.7466e-01	1.9136e+00
52	TRR130000	100.9548	102.0934	101.5179	2.6705e-01	1.9007e+00
53	TSI000001	68.2525	69.1059	68.7052	1.6060e-01	1.9000e+00
54	TSI000002	88.0705	91.3098	89.6557	8.1974e-01	1.9003e+00
55	TSO000001	68.0405	68.7907	68.3454	1.9033e-01	1.9000e+00
56	TSO000002	78.4979	79.4502	78.9845	2.0408e-01	1.9001e+00
57	TAF020136	101.4526	102.4977	101.8873	2.4277e-01	1.9007e+00
58	TAF120312	167.7848	169.2656	168.6344	3.4302e-01	1.9065e+00
59	TAF130312	179.1016	180.7635	179.9736	2.9945e-01	1.9081e+00
60	EMPTY	2.6367	2.6514	2.6425	3.2253e-03	0.0000e+00
61	EMPTY	2.6367	2.6416	2.6396	2.4164e-03	0.0000e+00
62	EMPTY	2.6318	2.6416	2.6356	2.2689e-03	0.0000e+00
63	EMPTY	2.6318	2.6416	2.6378	2.2689e-03	0.0000e+00
64	EMPTY	1.3037	1.3037	1.3037	0.0000e+00	0.0000e+00
65	EMPTY	1.3184	1.3232	1.3228	1.4797e-03	0.0000e+00
66	EMPTY	1.3281	1.3330	1.3328	9.6655e-04	0.0000e+00
67	EMPTY	1.3428	1.3477	1.3476	6.9053e-04	0.0000e+00
68	EMPTY	1.3525	1.3574	1.3572	9.6655e-04	0.0000e+00
69	EMPTY	1.3623	1.3721	1.3711	2.2058e-03	0.0000e+00
70	EMPTY	1.3770	1.3867	1.3816	1.3811e-03	0.0000e+00
71	EMPTY	1.3965	1.4014	1.4011	1.1714e-03	0.0000e+00
72	EMPTY	1.4063	1.4111	1.4103	1.8950e-03	0.0000e+00
73	EMPTY	1.4209	1.4258	1.4256	9.6655e-04	0.0000e+00
74	EMPTY	1.4355	1.4404	1.4357	9.6655e-04	0.0000e+00
75	EMPTY	1.4453	1.4502	1.4499	1.1714e-03	0.0000e+00
76	EMPTY	1.4600	1.4648	1.4601	6.9053e-04	0.0000e+00
77	EMPTY	1.4746	1.4795	1.4747	6.9053e-04	0.0000e+00
78	EMPTY	1.4893	1.4941	1.4937	1.3381e-03	0.0000e+00
79	EMPTY	1.5088	1.5137	1.5133	1.3381e-03	0.0000e+00
80	PAN020136	-14.8684	-14.5632	-14.7128	7.8534e-02	8.7078e-01
81	PAN050136	-28.3382	-27.7279	-28.1490	1.4642e-01	1.6815e+00
82	PAN070136	-18.3220	-18.0168	-18.1633	7.2033e-02	8.7118e-01
83	PAN080136	-9.9885	-9.5307	-9.6589	9.5565e-02	8.7034e-01
84	PAN090136	-10.3524	-9.4369	-9.9603	2.2443e-01	8.7036e-01
85	PAN100136	-12.0382	-9.2916	-10.6267	7.2268e-01	8.7041e-01
86	PAN105136	-7.7020	-1.9799	-5.5078	1.7713e+00	8.7011e-01
87	PAN110136	-7.2984	-0.2031	-5.3255	1.6004e+00	8.7010e-01
88	PAN115136	-7.5597	-1.3798	-5.3349	1.2935e+00	8.7010e-01
89	PAN120136	-6.8245	1.2626	-3.6980	1.7386e+00	8.7005e-01
90	PAN125136	-6.1086	-5.1168	-5.9362	1.8355e-01	8.7013e-01
91	PAN130136	-2.0312	0.8680	-0.9982	7.1040e-01	8.7000e-01
92	PAN120048	-11.1901	-10.7323	-10.9811	1.0432e-01	8.7043e-01
93	PAN130048	-8.7501	-8.1398	-8.4968	1.4164e-01	8.7026e-01
94	PAN120224	-9.2373	-8.3981	-8.9184	2.0431e-01	8.7029e-01
95	PAN130224	-9.2328	-8.4699	-8.9902	1.9294e-01	8.7029e-01
96	PAN120312	-9.9107	-9.5292	-9.7306	8.2661e-02	8.7034e-01
97	PAN130312	-9.2256	-8.9204	-9.0211	6.2497e-02	8.7029e-01
98	PAB000136	40.0450	40.3196	40.2070	5.6414e-02	5.8865e-01
99	PAB100136	43.2977	43.5266	43.4149	4.6389e-02	5.9007e-01
100	PAB125136	44.2995	44.5284	44.4250	4.6984e-02	5.9054e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9587	40.2028	40.0515	6.3165e-02	7.5665e-01
102	PRV000001	19.7186	19.8406	19.8358	2.4164e-02	7.5164e-01
103	PSR000001	44.2052	44.3273	44.3004	5.1081e-02	7.5813e-01
104	PFM000001	3.5635	3.8381	3.7448	8.5745e-02	5.0009e-01
105	PAN000136	-120.3475	-115.3121	-118.8460	9.9193e-01	4.9290e+00
106	PFM000002	3.7080	3.8087	3.7479	2.3945e-02	2.0022e-01
107	EMPTY	-0.0049	0.0049	0.0004	3.2479e-03	0.0000e+00
108	EMPTY	-10.0000	-0.1318	-5.1936	2.5581e+00	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	131.5655	132.1514	131.9561	1.3669e-01	1.1327e+00
113	VPW000002	144.6440	145.0346	144.8706	1.2072e-01	1.1881e+00
114	VPW000003	118.0439	118.4345	118.1884	1.1027e-01	1.0766e+00
115	VPW000004	99.1849	99.5756	99.3647	1.1049e-01	1.0058e+00
116	VPW000005	108.2783	108.6689	108.3955	1.1161e-01	1.0388e+00
117	VPW000006	160.3178	160.7084	160.4663	1.1545e-01	1.2582e+00
118	IPW000001	1065.6793	1071.5363	1068.4128	1.5777e+00	1.1698e+01
119	IPW000002	801.2589	805.1614	803.8738	1.0135e+00	1.0293e+01
120	IPW000003	659.1375	664.9875	661.5945	1.3539e+00	9.6399e+00
121	IPW000004	532.8181	533.7946	533.5409	2.6543e-01	4.6654e+00
122	IPW000005	591.2589	592.7236	592.0598	3.7895e-01	5.0869e+00
123	IPW000006	425.6591	427.1240	426.6648	3.4751e-01	3.9193e+00
124	EMPTY	-0.0293	-0.0146	-0.0214	3.4016e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0147	2.8744e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0175	3.2851e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	3.3073e-03	0.0000e+00
128	IHT000001	126.1869	128.5306	127.3745	5.5079e-01	4.2933e+00
129	IHT000002	129.8640	132.0125	131.0164	4.8688e-01	4.3042e+00
130	IHT000003	129.7964	131.9449	131.0308	5.1364e-01	4.3043e+00
131	IHT000004	141.2072	143.3556	142.3673	5.3874e-01	4.3401e+00
132	IHT000005	139.4719	141.2297	140.4093	5.1900e-01	4.3338e+00
133	IHT000006	134.2511	136.0089	135.1612	4.7941e-01	4.3170e+00
134	IHT000007	128.2790	130.0368	129.2868	5.0895e-01	4.2990e+00
135	IHT000008	126.8630	129.0114	127.9723	5.2710e-01	4.2951e+00
136	IHT000009	127.5315	129.4847	128.6878	4.8463e-01	4.2972e+00
137	IHT000010	117.1049	119.8392	118.3861	5.2669e-01	4.2675e+00
138	IHT000011	115.1743	117.7134	116.5727	5.1954e-01	4.2625e+00
139	IHT000012	113.5930	115.9368	114.6515	5.0700e-01	4.2573e+00
140	IHT000013	93.0552	95.2036	93.9224	4.5018e-01	4.2062e+00
141	IHT000014	119.9181	121.6759	120.8009	4.4685e-01	4.2743e+00
142	IHT000015	97.0102	98.7680	97.8735	4.6704e-01	4.2152e+00
143	IHT000016	86.2192	87.7817	86.8911	4.2711e-01	4.1911e+00
144	IHT000017	103.0048	105.3486	104.2002	5.4767e-01	4.2303e+00
145	IHT000018	106.2275	108.5712	107.0947	5.3838e-01	4.2376e+00
146	IHT000019	113.1761	115.7151	114.2933	5.6226e-01	4.2563e+00
147	IHT000020	116.7818	119.3209	117.8833	5.2461e-01	4.2661e+00
148	IHT000021	-3.0236	0.2967	-1.5509	6.5222e-01	4.1000e+00
149	IHT000022	96.3980	98.7418	97.4370	4.8559e-01	4.2142e+00
150	IHT000023	114.6409	116.5941	115.5082	4.6882e-01	4.2596e+00
151	IHT000024	80.2772	82.4256	81.2811	4.6857e-01	4.1798e+00
152	IHT000025	102.5428	104.4959	103.5038	4.1166e-01	4.2286e+00
153	IHT000026	103.7109	106.0547	104.6836	4.6436e-01	4.2315e+00
154	IHT000027	86.8502	89.1940	87.9244	4.9951e-01	4.1932e+00
155	IHT000028	88.2287	90.5724	89.4904	5.2380e-01	4.1965e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.4443	105.7880	104.6045	5.1812e-01	4.2313e+00
157	IHT000030	105.8143	107.7674	106.8651	5.0515e-01	4.2370e+00
158	IHT000031	94.7641	97.1079	95.7329	5.2193e-01	4.2103e+00
159	IHT000032	95.5980	97.9417	96.8128	5.5284e-01	4.2128e+00
160	IHT000033	95.5829	97.9267	96.7588	5.4746e-01	4.2126e+00
161	IHT000034	88.2474	90.2006	89.2436	4.5890e-01	4.1960e+00
162	IHT000035	116.2072	118.1603	117.3283	4.7648e-01	4.2646e+00
163	IHT000036	86.9479	88.9010	87.9361	4.6590e-01	4.1932e+00

Velocity 1 = 4.9558 (ft/sec) (+/- 7.0081 %)
Velocity 2 = 4.9628 (ft/sec) (+/- 2.9603 %)
Pressure drop = -4.3208 (psi)
Tsats in = 267.5894 (deg F) Tsats out = 273.6232 (deg F)
Phi inner = 99.1230 (kBtu/hr-ft2) (+/- 1.5882 %)
Phi outer = 100.7809 (kBtu/hr-ft2) (+/- 1.4785 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.2699	78.5463	77.5508	2.3324e-01	1.9000e+00
1	TRF000002	77.7870	78.2102	77.9563	1.3520e-01	1.9000e+00
2	TFM000001	87.8628	88.7020	88.2271	2.0365e-01	1.9002e+00
3	TIN000001	87.2099	87.9482	87.5552	1.5343e-01	1.9002e+00
4	TRV000001	88.0236	88.9662	88.5184	2.0732e-01	1.9002e+00
5	TSR000001	123.6768	126.9253	125.0411	1.0077e+00	1.9020e+00
6	TAO020136	61.2228	62.7271	61.8681	3.6589e-01	1.9000e+00
7	TAO050136	183.5977	184.7681	184.1770	2.7656e-01	1.9088e+00
8	TAO070136	183.9483	185.1249	184.5213	3.1575e-01	1.9088e+00
9	TAO080136	213.4571	214.3198	213.8506	1.8570e-01	1.9139e+00
10	TAO090136	222.2379	222.9042	222.5235	2.0609e-01	1.9156e+00
11	TAO100136	218.9741	220.8784	219.7552	5.3764e-01	1.9150e+00
12	TAO105136	223.8769	225.3991	224.5243	3.5958e-01	1.9160e+00
13	TAO110136	232.4108	233.6369	233.0987	2.2120e-01	1.9178e+00
14	TAO115136	226.6631	228.7509	227.4646	3.7194e-01	1.9166e+00
15	TAO120136	238.8107	239.6606	239.1916	2.1445e-01	1.9192e+00
16	TAO125136	134.3558	135.6726	135.0152	2.5534e-01	1.9028e+00
17	TAO130136	233.2113	234.4261	233.6170	2.2590e-01	1.9180e+00
18	TAO120048	98.1914	99.2321	98.7783	3.0525e-01	1.9006e+00
19	TAO130048	221.6307	222.5836	222.0867	1.6984e-01	1.9155e+00
20	TAO120224	223.6915	224.6438	224.1703	2.1126e-01	1.9159e+00
21	TAO130224	213.5650	214.7096	214.1004	2.5682e-01	1.9139e+00
22	TAO120312	212.2569	213.4072	212.7788	2.4971e-01	1.9137e+00
23	TAO130312	208.3440	209.4005	208.7960	1.9773e-01	1.9129e+00
24	TRT020000	165.1601	166.2523	165.6801	2.8526e-01	1.9062e+00
25	TRT070000	191.0189	192.2882	191.5424	2.5473e-01	1.9099e+00
26	TRT100000	208.0497	209.0073	208.5058	2.3679e-01	1.9129e+00
27	TRT120000	217.3560	218.4079	217.9515	2.4500e-01	1.9147e+00
28	TRT125000	88.7904	89.9442	89.1843	2.0439e-01	1.9002e+00
29	TRT130000	210.8544	211.5281	211.1653	1.6278e-01	1.9134e+00
30	EMPTY	39.3761	40.0646	39.6561	2.0889e-01	1.9011e+00
31	TAF050136	128.6727	130.1910	129.2762	2.9868e-01	1.9024e+00
32	TAF070136	144.2699	145.6687	144.9138	3.0025e-01	1.9038e+00
33	TAF080136	207.7187	211.8111	209.5746	1.1040e+00	1.9131e+00
34	TAF090136	86.3302	87.6984	86.8812	3.1672e-01	1.9002e+00
35	TAF100136	172.0307	173.7067	172.8746	4.4327e-01	1.9071e+00
36	TAF105136	176.0809	177.8317	177.0627	3.6147e-01	1.9077e+00
37	TAF110136	180.4033	182.0592	181.4091	2.9693e-01	1.9083e+00
38	TAF115136	185.8564	187.7027	186.6766	3.0133e-01	1.9091e+00
39	TAF120136	212.3957	214.5852	213.1155	4.5445e-01	1.9137e+00
40	TAF125136	195.3675	197.2000	196.4836	3.4250e-01	1.9107e+00
41	TAF130136	198.7951	200.0521	199.3204	2.2331e-01	1.9112e+00
42	TAF120048	179.0669	180.5444	179.9224	3.2660e-01	1.9081e+00
43	TAF130048	186.9145	188.1787	187.3693	2.3706e-01	1.9093e+00
44	TAF120224	177.3726	178.5477	178.0463	2.8424e-01	1.9078e+00
45	TAF130224	182.7560	183.6394	183.1565	2.3182e-01	1.9086e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0388	2.0613e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.6608	9.9020e-02	1.9011e+00
48	TAI130048	220.9196	223.0133	221.8223	4.5551e-01	1.9155e+00
49	TAI130136	236.6564	237.5988	237.2043	2.5297e-01	1.9187e+00
50	TAI130224	210.0584	211.3078	210.7387	3.0381e-01	1.9133e+00
51	TAI130312	213.0424	214.1940	213.6023	2.6784e-01	1.9138e+00
52	TRR130000	101.2646	102.6144	102.0063	3.1117e-01	1.9007e+00
53	TSI000001	68.3597	69.1094	68.7099	1.6430e-01	1.9000e+00
54	TSI000002	88.0705	91.5197	89.6769	8.9779e-01	1.9003e+00
55	TSO000001	67.9339	68.8981	68.3665	2.1748e-01	1.9000e+00
56	TSO000002	78.7089	79.6637	79.1665	2.2480e-01	1.9001e+00
57	TAF020136	101.3482	102.9146	102.1042	2.9122e-01	1.9007e+00
58	TAF120312	169.0678	170.5473	169.6089	2.9563e-01	1.9067e+00
59	TAF130312	180.5668	182.4257	181.2241	3.2205e-01	1.9083e+00
60	EMPTY	2.6660	2.6758	2.6711	2.7832e-03	0.0000e+00
61	EMPTY	2.6611	2.6709	2.6681	2.8058e-03	0.0000e+00
62	EMPTY	2.6611	2.6660	2.6646	2.2146e-03	0.0000e+00
63	EMPTY	2.6611	2.6709	2.6671	2.4741e-03	0.0000e+00
64	EMPTY	1.3135	1.3184	1.3183	6.9053e-04	0.0000e+00
65	EMPTY	1.3330	1.3379	1.3354	2.4662e-03	0.0000e+00
66	EMPTY	1.3428	1.3525	1.3475	1.3811e-03	0.0000e+00
67	EMPTY	1.3574	1.3623	1.3621	9.6655e-04	0.0000e+00
68	EMPTY	1.3672	1.3721	1.3716	1.4797e-03	0.0000e+00
69	EMPTY	1.3818	1.3867	1.3840	2.4484e-03	0.0000e+00
70	EMPTY	1.3916	1.3965	1.3958	1.7115e-03	0.0000e+00
71	EMPTY	1.4111	1.4160	1.4136	2.4662e-03	0.0000e+00
72	EMPTY	1.4209	1.4258	1.4222	2.1635e-03	0.0000e+00
73	EMPTY	1.4355	1.4404	1.4390	2.2603e-03	0.0000e+00
74	EMPTY	1.4453	1.4551	1.4502	9.8648e-04	0.0000e+00
75	EMPTY	1.4600	1.4648	1.4639	1.9730e-03	0.0000e+00
76	EMPTY	1.4697	1.4746	1.4742	1.3381e-03	0.0000e+00
77	EMPTY	1.4844	1.4893	1.4892	6.9053e-04	0.0000e+00
78	EMPTY	1.5039	1.5137	1.5072	2.5034e-03	0.0000e+00
79	EMPTY	1.5234	1.5283	1.5249	2.2603e-03	0.0000e+00
80	PAN020136	-15.0210	-14.1055	-14.6548	2.5139e-01	8.7077e-01
81	PAN050136	-28.6434	-28.0331	-28.3596	1.7167e-01	1.6815e+00
82	PAN070136	-18.4746	-18.0931	-18.3128	9.7045e-02	8.7120e-01
83	PAN080136	-9.9122	-9.5307	-9.7108	8.1211e-02	8.7034e-01
84	PAN090136	-11.1916	-10.7339	-10.9811	1.0741e-01	8.7043e-01
85	PAN100136	-11.0463	-7.6131	-9.6639	9.8221e-01	8.7034e-01
86	PAN105136	-7.7020	-2.5903	-6.5515	1.4413e+00	8.7015e-01
87	PAN110136	-7.2984	0.2547	-4.8113	2.1681e+00	8.7008e-01
88	PAN115136	-7.6359	-0.3117	-5.0099	1.5540e+00	8.7009e-01
89	PAN120136	-6.6720	2.1019	-2.9107	1.9346e+00	8.7003e-01
90	PAN125136	-6.1086	-4.4301	-5.8660	3.5608e-01	8.7012e-01
91	PAN130136	-3.0230	1.7072	-0.9295	8.8815e-01	8.7000e-01
92	PAN120048	-11.2664	-10.8086	-10.9963	1.0014e-01	8.7043e-01
93	PAN130048	-8.6738	-8.3687	-8.5350	6.8396e-02	8.7026e-01
94	PAN120224	-9.2373	-8.4744	-8.9520	1.9485e-01	8.7029e-01
95	PAN130224	-9.1565	-8.9276	-9.0375	5.8001e-02	8.7029e-01
96	PAN120312	-9.9107	-9.6055	-9.7627	8.0698e-02	8.7034e-01
97	PAN130312	-9.3019	-8.7678	-9.0577	9.3758e-02	8.7029e-01
98	PAB000136	40.0450	40.3196	40.1484	4.8771e-02	5.8862e-01
99	PAB100136	43.2062	43.4351	43.3270	5.3735e-02	5.9003e-01
100	PAB125136	44.2538	44.5284	44.3929	6.1318e-02	5.9052e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8366	40.0808	39.9172	6.3406e-02	7.5661e-01
102	PRV000001	19.7186	19.8406	19.7723	6.1209e-02	7.5163e-01
103	PSR000001	44.2052	44.4493	44.2418	6.1655e-02	7.5811e-01
104	PFM000001	3.5635	3.8381	3.6734	7.6263e-02	5.0008e-01
105	PAN000136	-121.2630	-118.0587	-119.6242	7.8523e-01	4.9291e+00
106	PFM000002	3.6241	3.7416	3.6838	2.8996e-02	2.0021e-01
107	EMPTY	-0.0049	0.0049	0.0034	3.0003e-03	0.0000e+00
108	EMPTY	-10.0000	-1.3037	-4.9095	2.3731e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0015	2.2603e-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	131.7608	132.3468	131.9756	1.3235e-01	1.1328e+00
113	VPW000002	144.4486	144.8393	144.6362	9.6332e-02	1.1871e+00
114	VPW000003	118.0439	118.4345	118.1767	1.0763e-01	1.0765e+00
115	VPW000004	99.1849	99.5756	99.3256	1.0470e-01	1.0056e+00
116	VPW000005	108.2783	108.6689	108.4463	1.3093e-01	1.0390e+00
117	VPW000006	160.3178	160.7084	160.5561	9.8963e-02	1.2586e+00
118	IPW000001	1065.6793	1073.4886	1070.0914	1.9246e+00	1.1708e+01
119	IPW000002	789.5512	797.3563	793.1414	1.8219e+00	1.0241e+01
120	IPW000003	639.6375	647.4375	643.0697	2.3493e+00	9.5613e+00
121	IPW000004	530.8649	533.3063	531.5487	6.0811e-01	4.6512e+00
122	IPW000005	586.8648	589.7942	588.6422	7.6252e-01	5.0621e+00
123	IPW000006	425.1709	426.6357	425.9714	3.3829e-01	3.9146e+00
124	EMPTY	-0.0293	-0.0098	-0.0189	4.2590e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	3.1583e-03	0.0000e+00
126	EMPTY	-0.0244	0.0000	-0.0143	4.9166e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	3.1567e-03	0.0000e+00
128	IHT000001	125.9916	128.7260	127.3003	6.1162e-01	4.2931e+00
129	IHT000002	129.6687	132.2078	130.9110	5.4784e-01	4.3039e+00
130	IHT000003	129.7964	132.1402	130.9683	5.3525e-01	4.3041e+00
131	IHT000004	141.0119	144.1369	142.6095	5.8619e-01	4.3409e+00
132	IHT000005	139.4719	142.4016	140.6437	5.4818e-01	4.3345e+00
133	IHT000006	134.2511	136.9854	135.4034	5.5278e-01	4.3178e+00
134	IHT000007	128.0837	131.0134	129.2086	5.8068e-01	4.2988e+00
135	IHT000008	126.8630	129.4020	127.8746	5.1854e-01	4.2948e+00
136	IHT000009	127.3362	129.8753	128.5394	5.0279e-01	4.2968e+00
137	IHT000010	117.4955	119.4486	118.4408	5.2253e-01	4.2676e+00
138	IHT000011	115.7602	117.7134	116.6392	4.7719e-01	4.2627e+00
139	IHT000012	113.5930	115.7415	114.6984	4.9851e-01	4.2574e+00
140	IHT000013	92.8598	95.0083	93.9966	4.5453e-01	4.2064e+00
141	IHT000014	119.7228	122.0666	120.8361	4.8045e-01	4.2744e+00
142	IHT000015	96.8149	98.9633	97.9282	4.5549e-01	4.2153e+00
143	IHT000016	85.6333	87.7817	86.8442	4.7515e-01	4.1910e+00
144	IHT000017	103.3954	107.6923	105.3681	1.0486e+00	4.2332e+00
145	IHT000018	106.2275	108.3759	107.2939	5.9479e-01	4.2381e+00
146	IHT000019	113.5667	116.4964	114.3714	5.5333e-01	4.2565e+00
147	IHT000020	116.9771	119.9068	118.0005	5.5181e-01	4.2664e+00
148	IHT000021	-2.8283	0.4920	-1.3556	6.6522e-01	4.1000e+00
149	IHT000022	96.5933	99.1324	97.6402	5.4784e-01	4.2147e+00
150	IHT000023	114.4456	116.9847	115.6214	5.4030e-01	4.2599e+00
151	IHT000024	80.2772	82.8162	81.4021	5.2283e-01	4.1800e+00
152	IHT000025	102.7381	105.0819	103.7264	5.5018e-01	4.2292e+00
153	IHT000026	103.7109	106.0547	104.9063	4.8269e-01	4.2321e+00
154	IHT000027	86.8502	89.3893	88.0767	4.5170e-01	4.1935e+00
155	IHT000028	88.6193	90.9631	89.5529	5.7221e-01	4.1967e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.8349	106.3740	104.7802	6.0407e-01	4.2318e+00
157	IHT000030	106.2049	108.5487	107.1112	5.8362e-01	4.2376e+00
158	IHT000031	94.9594	97.6938	95.9634	5.8395e-01	4.2108e+00
159	IHT000032	95.9886	98.5276	97.0433	6.0746e-01	4.2133e+00
160	IHT000033	95.9736	98.5126	96.9931	5.8032e-01	4.2132e+00
161	IHT000034	88.4428	90.3959	89.2241	4.7351e-01	4.1960e+00
162	IHT000035	116.4025	118.1603	117.3009	4.8488e-01	4.2645e+00
163	IHT000036	87.1432	88.7057	87.8892	4.5795e-01	4.1931e+00

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Velocity 1 = 0.047000 (ft/sec)

Velocity 2 = 0.042100 (ft/sec)

Pressure Drop = 0.028100 (psi)

Tsat in = 0.087006 (deg F) Tsat out = 0.043701 (deg F)

Phi inner = 0.746300 (kBtu/hr-ft2) Phi outer = 0.911804 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0596	0.0769
1	TRF000002	0.1354	0.1740
2	TFM000001	0.0841	0.0954
3	TIN000001	0.0336	0.0384
4	TRV000001	0.0800	0.0905
5	TSR000001	1.6412	1.3300
6	TAO020136	0.2535	0.4114
7	TAO050136	0.8977	0.4898
8	TAO070136	1.0349	0.5640
9	TAO080136	1.0200	0.4793
10	TAO090136	1.7395	0.7879
11	TAO100136	0.8414	0.3844
12	TAO105136	0.8753	0.3914
13	TAO110136	1.1999	0.5174
14	TAO115136	1.2190	0.5388
15	TAO120136	1.3296	0.5590
16	TAO125136	1.2888	0.9638
17	TAO130136	1.2377	0.5326
18	TAO120048	0.1833	0.1859
19	TAO130048	1.1039	0.4995
20	TAO120224	1.0260	0.4598
21	TAO130224	1.5285	0.7191
22	TAO120312	0.8168	0.3853
23	TAO130312	1.4174	0.6835
24	TRT020000	0.6706	0.4064
25	TRT070000	0.6643	0.3480
26	TRT100000	1.1071	0.5338
27	TRT120000	1.2621	0.5824
28	TRT125000	0.1618	0.1811
29	TRT130000	1.1286	0.5373
30	EMPTY	0.0184	0.0464
31	TAF050136	0.3609	0.2800
32	TAF070136	0.5599	0.3879
33	TAF080136	1.2953	0.6219
34	TAF090136	0.2312	0.2668
35	TAF100136	0.9745	0.5669
36	TAF105136	0.8804	0.4997
37	TAF110136	0.8849	0.4902
38	TAF115136	0.9334	0.5025
39	TAF120136	1.3841	0.6537
40	TAF125136	1.4412	0.7389
41	TAF130136	1.1452	0.5779
42	TAF120048	0.9457	0.5284
43	TAF130048	0.9069	0.4864
44	TAF120224	1.0222	0.5774
45	TAF130224	1.2013	0.6602

#	Name	Abs Diff	%Diff
46	EMPTY	0.0598	0.1570
47	EMPTY	0.0229	0.0577
48	TAI130048	1.2526	0.5679
49	TAI130136	1.1841	0.5017
50	TAI130224	1.2418	0.5927
51	TAI130312	1.1727	0.5520
52	TRR130000	0.4884	0.4811
53	TSI000001	0.0047	0.0068
54	TSI000002	0.0212	0.0236
55	TSO000001	0.0211	0.0309
56	TSO000002	0.1820	0.2304
57	TAF020136	0.2169	0.2129
58	TAF120312	0.9745	0.5779
59	TAF130312	1.2505	0.6948
60	EMPTY	0.0286	1.0823
61	EMPTY	0.0285	1.0797
62	EMPTY	0.0290	1.1003
63	EMPTY	0.0293	1.1108
64	EMPTY	0.0146	1.1199
65	EMPTY	0.0126	0.9525
66	EMPTY	0.0147	1.1029
67	EMPTY	0.0145	1.0760
68	EMPTY	0.0144	1.0610
69	EMPTY	0.0129	0.9409
70	EMPTY	0.0142	1.0278
71	EMPTY	0.0125	0.8922
72	EMPTY	0.0119	0.8438
73	EMPTY	0.0134	0.9400
74	EMPTY	0.0145	1.0100
75	EMPTY	0.0140	0.9656
76	EMPTY	0.0141	0.9657
77	EMPTY	0.0145	0.9833
78	EMPTY	0.0135	0.9038
79	EMPTY	0.0116	0.7665
80	PAN020136	0.0580	0.3942
81	PAN050136	0.2106	0.7482
82	PAN070136	0.1495	0.8231
83	PAN080136	0.0519	0.5373
84	PAN090136	1.0208	10.2487
85	PAN100136	0.9628	9.0602
86	PAN105136	1.0437	18.9495
87	PAN110136	0.5142	9.6554
88	PAN115136	0.3250	6.0920
89	PAN120136	0.7873	21.2899
90	PAN125136	0.0702	1.1826
91	PAN130136	0.0687	6.8824
92	PAN120048	0.0152	0.1384
93	PAN130048	0.0382	0.4496
94	PAN120224	0.0336	0.3767
95	PAN130224	0.0473	0.5261
96	PAN120312	0.0321	0.3299
97	PAN130312	0.0366	0.4057
98	PAB000136	0.0586	0.1457
99	PAB100136	0.0879	0.2025
100	PAB125136	0.0321	0.0723

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1343	0.3353
102	PRV000001	0.0635	0.3201
103	PSR000001	0.0586	0.1323
104	PFM000001	0.0714	1.9066
105	PAN000136	0.7782	0.6548
106	PFM000002	0.0641	1.7103
107	EMPTY	0.0030	750.0001
108	EMPTY	0.2841	5.4702
109	EMPTY	0.0014	1400.0001
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0195	0.0148
113	VPW000002	0.2344	0.1618
114	VPW000003	0.0117	0.0099
115	VPW000004	0.0391	0.0394
116	VPW000005	0.0508	0.0469
117	VPW000006	0.0898	0.0560
118	IPW000001	1.6786	0.1571
119	IPW000002	10.7324	1.3351
120	IPW000003	18.5248	2.8000
121	IPW000004	1.9922	0.3734
122	IPW000005	3.4176	0.5772
123	IPW000006	0.6934	0.1625
124	EMPTY	0.0025	11.6822
125	EMPTY	0.0015	10.2041
126	EMPTY	0.0032	18.2857
127	EMPTY	0.0000	0.0000
128	IHT000001	0.0742	0.0583
129	IHT000002	0.1054	0.0805
130	IHT000003	0.0625	0.0477
131	IHT000004	0.2422	0.1701
132	IHT000005	0.2344	0.1669
133	IHT000006	0.2422	0.1792
134	IHT000007	0.0782	0.0605
135	IHT000008	0.0977	0.0763
136	IHT000009	0.1484	0.1153
137	IHT000010	0.0547	0.0462
138	IHT000011	0.0665	0.0570
139	IHT000012	0.0469	0.0409
140	IHT000013	0.0742	0.0790
141	IHT000014	0.0352	0.0291
142	IHT000015	0.0547	0.0559
143	IHT000016	0.0469	0.0540
144	IHT000017	1.1679	1.1208
145	IHT000018	0.1992	0.1860
146	IHT000019	0.0781	0.0683
147	IHT000020	0.1172	0.0994
148	IHT000021	0.1953	12.5927
149	IHT000022	0.2032	0.2085
150	IHT000023	0.1132	0.0980
151	IHT000024	0.1210	0.1489
152	IHT000025	0.2226	0.2151
153	IHT000026	0.2227	0.2127
154	IHT000027	0.1523	0.1732
155	IHT000028	0.0625	0.0698

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1757	0.1680
157	IHT000030	0.2461	0.2303
158	IHT000031	0.2305	0.2408
159	IHT000032	0.2305	0.2381
160	IHT000033	0.2343	0.2422
161	IHT000034	0.0195	0.0219
162	IHT000035	0.0274	0.0234
163	IHT000036	0.0469	0.0533

Velocity 1 = 4.4683 (ft/sec) (+/- 8.5711 %)
Velocity 2 = 4.4577 (ft/sec) (+/- 3.4701 %)
Pressure drop = -4.5245 (psi)
Tsat in = 267.8798 (deg F) Tsat out = 273.9743 (deg F)
Phi inner = 98.2923 (kBtu/hr-ft2) (+/- 1.5955 %)
Phi outer = 100.7243 (kBtu/hr-ft2) (+/- 1.4801 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.2699	77.9082	77.6742	1.7330e-01	1.9000e+00
1	TRF000002	77.7870	78.4218	78.0917	1.2939e-01	1.9000e+00
2	TFM000001	87.9672	88.7014	88.3094	1.9281e-01	1.9002e+00
3	TIN000001	87.3149	87.9468	87.6121	1.5289e-01	1.9002e+00
4	TRV000001	88.2335	88.9677	88.6300	1.9539e-01	1.9002e+00
5	TSR000001	124.3887	125.8102	125.1093	3.7044e-01	1.9020e+00
6	TAO020136	60.6855	62.0833	61.3072	3.2461e-01	1.9001e+00
7	TAO050136	193.0822	194.0486	193.5130	2.7387e-01	1.9102e+00
8	TAO070136	192.7443	194.4001	193.8412	3.1403e-01	1.9103e+00
9	TAO080136	224.1672	225.0180	224.5738	1.7137e-01	1.9160e+00
10	TAO090136	233.3012	234.5278	233.8959	2.4992e-01	1.9180e+00
11	TAO100136	230.4485	231.8651	231.1720	3.0758e-01	1.9174e+00
12	TAO105136	236.9539	238.0869	237.5979	2.8511e-01	1.9188e+00
13	TAO110136	246.1260	247.0567	246.5331	1.9965e-01	1.9209e+00
14	TAO115136	240.8420	242.5358	241.6532	5.2070e-01	1.9197e+00
15	TAO120136	253.5241	254.4573	253.8954	2.0346e-01	1.9226e+00
16	TAO125136	137.9867	138.9943	138.4727	2.6657e-01	1.9032e+00
17	TAO130136	247.3947	248.4075	247.9025	2.4069e-01	1.9212e+00
18	TAO120048	99.5438	100.5834	100.1444	2.8116e-01	1.9006e+00
19	TAO130048	234.9403	235.6938	235.2664	1.8754e-01	1.9183e+00
20	TAO120224	235.6145	237.1226	236.1404	2.9871e-01	1.9185e+00
21	TAO130224	226.0234	227.1532	226.6044	2.6486e-01	1.9165e+00
22	TAO120312	225.2405	226.5717	225.8245	2.4299e-01	1.9163e+00
23	TAO130312	221.0212	221.6873	221.2980	1.5646e-01	1.9154e+00
24	TRT020000	172.0896	173.1757	172.6327	2.6476e-01	1.9071e+00
25	TRT070000	200.9574	201.9280	201.4017	2.1125e-01	1.9116e+00
26	TRT100000	220.0647	220.8253	220.4996	2.0506e-01	1.9152e+00
27	TRT120000	228.8464	229.7929	229.3137	2.1827e-01	1.9170e+00
28	TRT125000	89.9393	90.7739	90.2955	1.7917e-01	1.9003e+00
29	TRT130000	222.9479	223.7074	223.3784	1.6419e-01	1.9158e+00
30	EMPTY	39.1464	39.8352	39.6102	1.9943e-01	1.9011e+00
31	TAF050136	133.4240	135.1384	134.1240	3.3010e-01	1.9028e+00
32	TAF070136	150.8480	152.3387	151.6013	3.5492e-01	1.9045e+00
33	TAF080136	219.4890	222.8905	221.2671	8.5527e-01	1.9154e+00
34	TAF090136	87.9042	88.9544	88.4149	2.7466e-01	1.9002e+00
35	TAF100136	181.5680	182.9394	182.3457	3.1936e-01	1.9085e+00
36	TAF105136	185.9753	187.5214	186.6853	2.9737e-01	1.9092e+00
37	TAF110136	191.1779	193.2101	191.7189	3.7896e-01	1.9100e+00
38	TAF115136	196.2225	198.4417	197.4399	4.7539e-01	1.9109e+00
39	TAF120136	225.7737	229.6421	227.7757	8.1780e-01	1.9167e+00
40	TAF125136	207.7091	212.0849	209.4324	1.2705e+00	1.9131e+00
41	TAF130136	210.7941	212.8952	211.7860	4.4885e-01	1.9135e+00
42	TAF120048	190.3599	192.4132	191.3550	3.7034e-01	1.9099e+00
43	TAF130048	198.5407	200.4714	199.3851	3.4588e-01	1.9112e+00
44	TAF120224	187.6156	189.3635	188.6117	4.1016e-01	1.9095e+00
45	TAF130224	193.4152	194.6809	193.9742	2.5856e-01	1.9103e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0802	2.2642e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7801	1.0934e-01	1.9011e+00
48	TAI130048	235.0399	236.9249	235.9879	3.8865e-01	1.9185e+00
49	TAI130136	250.7794	252.4542	251.7077	3.1277e-01	1.9221e+00
50	TAI130224	222.6942	224.0289	223.3865	3.0859e-01	1.9158e+00
51	TAI130312	225.7319	227.1570	226.5326	2.8606e-01	1.9164e+00
52	TRR130000	103.8490	105.0880	104.3793	2.7669e-01	1.9008e+00
53	TSI000001	68.4664	69.1071	68.8190	1.8802e-01	1.9000e+00
54	TSI000002	87.9661	90.7894	89.0694	6.0169e-01	1.9002e+00
55	TSO000001	67.8261	68.8974	68.3683	2.2329e-01	1.9000e+00
56	TSO000002	79.5554	80.6126	80.1033	2.0900e-01	1.9001e+00
57	TAF020136	102.7057	104.2713	103.7515	3.2133e-01	1.9008e+00
58	TAF120312	178.6982	180.2653	179.3747	4.1223e-01	1.9080e+00
59	TAF130312	191.5619	193.5014	192.6194	3.9262e-01	1.9101e+00
60	EMPTY	2.9395	2.9639	2.9530	4.7607e-03	0.0000e+00
61	EMPTY	2.9395	2.9541	2.9471	4.0864e-03	0.0000e+00
62	EMPTY	2.9346	2.9443	2.9410	3.0309e-03	0.0000e+00
63	EMPTY	2.9346	2.9443	2.9409	2.6562e-03	0.0000e+00
64	EMPTY	1.4404	1.4453	1.4409	1.4797e-03	0.0000e+00
65	EMPTY	1.4551	1.4600	1.4578	2.4484e-03	0.0000e+00
66	EMPTY	1.4648	1.4746	1.4688	2.1364e-03	0.0000e+00
67	EMPTY	1.4795	1.4844	1.4821	2.4583e-03	0.0000e+00
68	EMPTY	1.4844	1.4941	1.4899	1.9754e-03	0.0000e+00
69	EMPTY	1.4990	1.5088	1.5038	1.2041e-03	0.0000e+00
70	EMPTY	1.5088	1.5186	1.5132	2.0337e-03	0.0000e+00
71	EMPTY	1.5283	1.5381	1.5313	2.6100e-03	0.0000e+00
72	EMPTY	1.5381	1.5430	1.5395	2.2146e-03	0.0000e+00
73	EMPTY	1.5527	1.5576	1.5545	2.3675e-03	0.0000e+00
74	EMPTY	1.5625	1.5723	1.5647	2.6488e-03	0.0000e+00
75	EMPTY	1.5771	1.5820	1.5773	9.6655e-04	0.0000e+00
76	EMPTY	1.5820	1.5918	1.5868	1.2041e-03	0.0000e+00
77	EMPTY	1.5967	1.6064	1.6016	9.8648e-04	0.0000e+00
78	EMPTY	1.6162	1.6211	1.6189	2.4484e-03	0.0000e+00
79	EMPTY	1.6357	1.6406	1.6366	1.8950e-03	0.0000e+00
80	PAN020136	-15.6313	-15.3262	-15.4223	7.3616e-02	8.7085e-01
81	PAN050136	-30.0167	-29.4064	-29.7665	1.3703e-01	1.6816e+00
82	PAN070136	-19.4664	-19.0849	-19.2558	8.3803e-02	8.7133e-01
83	PAN080136	-12.5062	-10.1411	-11.7250	6.2924e-01	8.7049e-01
84	PAN090136	-13.0990	-7.3769	-10.5218	1.6995e+00	8.7040e-01
85	PAN100136	-12.2670	-10.7412	-11.8718	4.8122e-01	8.7051e-01
86	PAN105136	-7.7020	-4.8028	-6.0342	6.7293e-01	8.7013e-01
87	PAN110136	-4.9333	-0.8135	-2.9985	9.6957e-01	8.7003e-01
88	PAN115136	-5.8812	2.6637	-3.1392	1.6847e+00	8.7004e-01
89	PAN120136	-6.8245	4.9247	-3.4066	2.2692e+00	8.7004e-01
90	PAN125136	-6.1086	-0.6917	-4.4469	1.1185e+00	8.7007e-01
91	PAN130136	-7.9058	-3.9385	-4.9654	7.3925e-01	8.7009e-01
92	PAN120048	-12.1056	-9.5879	-11.7959	6.0946e-01	8.7050e-01
93	PAN130048	-10.3523	-3.1807	-7.1770	1.1366e+00	8.7019e-01
94	PAN120224	-12.3654	-6.9485	-10.1895	1.1255e+00	8.7037e-01
95	PAN130224	-10.9113	-6.9440	-7.8412	8.4136e-01	8.7022e-01
96	PAN120312	-10.5210	-9.8344	-10.1731	2.4428e-01	8.7037e-01
97	PAN130312	-9.5308	-9.2256	-9.3995	6.3627e-02	8.7032e-01
98	PAB000136	40.2739	40.4112	40.3443	4.4555e-02	5.8870e-01
99	PAB100136	43.7555	43.9844	43.8590	4.7886e-02	5.9027e-01
100	PAB125136	44.3911	44.8488	44.6511	7.6509e-02	5.9064e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9587	40.2028	40.0735	7.1520e-02	7.5666e-01
102	PRV000001	19.4744	19.5965	19.5819	4.0071e-02	7.5160e-01
103	PSR000001	44.5714	44.6935	44.6569	5.6508e-02	7.5826e-01
104	PFM000001	2.8311	3.1057	2.9739	6.4499e-02	5.0006e-01
105	PAN000136	-126.7562	-123.5518	-125.2639	7.7271e-01	4.9300e+00
106	PFM000002	2.9194	3.0200	2.9596	2.3487e-02	2.0014e-01
107	EMPTY	-0.0049	0.0049	0.0037	2.5266e-03	0.0000e+00
108	EMPTY	-10.0000	-0.8594	-4.2841	1.2205e+00	0.0000e+00
109	EMPTY	-0.0049	0.0098	0.0030	2.7709e-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	131.9561	132.3468	132.0850	1.2232e-01	1.1332e+00
113	VPW000002	144.6440	145.0346	144.8510	9.1779e-02	1.1880e+00
114	VPW000003	118.0439	118.4345	118.2041	1.2283e-01	1.0766e+00
115	VPW000004	99.1849	99.5756	99.3764	1.0799e-01	1.0058e+00
116	VPW000005	108.2783	108.6689	108.5634	1.0595e-01	1.0394e+00
117	VPW000006	160.3178	160.7084	160.5483	9.4125e-02	1.2586e+00
118	IPW000001	1075.4410	1085.2028	1080.5951	2.9716e+00	1.1768e+01
119	IPW000002	773.9410	779.7949	776.3997	1.4109e+00	1.0160e+01
120	IPW000003	627.9375	633.7875	629.8875	1.4740e+00	9.5064e+00
121	IPW000004	534.7712	536.7243	535.3866	6.0658e-01	4.6786e+00
122	IPW000005	586.8648	588.3295	587.7145	3.5303e-01	5.0554e+00
123	IPW000006	424.1943	425.6591	424.8972	3.5786e-01	3.9073e+00
124	EMPTY	-0.0293	-0.0098	-0.0185	4.6574e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0114	2.3365e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0138	5.0000e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0151	3.1583e-03	0.0000e+00
128	IHT000001	125.7963	128.9213	127.4760	6.1511e-01	4.2936e+00
129	IHT000002	129.4734	132.2078	131.0672	5.7231e-01	4.3044e+00
130	IHT000003	129.6011	132.5308	131.1441	5.8294e-01	4.3046e+00
131	IHT000004	141.0119	144.3322	142.6564	6.1268e-01	4.3411e+00
132	IHT000005	139.0813	142.0110	140.6828	5.9712e-01	4.3346e+00
133	IHT000006	133.8604	136.7901	135.4424	5.9090e-01	4.3179e+00
134	IHT000007	127.8884	130.8181	129.4118	6.1130e-01	4.2994e+00
135	IHT000008	126.4723	129.4020	128.0543	5.7079e-01	4.2953e+00
136	IHT000009	126.9456	130.2659	128.7191	6.4819e-01	4.2973e+00
137	IHT000010	117.6908	119.6439	118.5384	4.9381e-01	4.2679e+00
138	IHT000011	115.5649	117.7134	116.7407	4.7921e-01	4.2630e+00
139	IHT000012	113.9836	115.9368	114.7726	5.0680e-01	4.2576e+00
140	IHT000013	93.2505	95.2036	94.1450	4.6201e-01	4.2067e+00
141	IHT000014	120.1134	122.0666	120.9220	4.7023e-01	4.2746e+00
142	IHT000015	97.4008	98.9633	98.0649	3.7848e-01	4.2156e+00
143	IHT000016	86.2192	87.7817	86.8716	3.8784e-01	4.1910e+00
144	IHT000017	103.9814	107.3017	105.7900	9.0137e-01	4.2343e+00
145	IHT000018	106.4228	108.7665	107.2158	5.3585e-01	4.2379e+00
146	IHT000019	113.3714	115.7151	114.4378	4.9945e-01	4.2567e+00
147	IHT000020	116.9771	119.1256	118.0044	4.7811e-01	4.2664e+00
148	IHT000021	-2.4377	-0.0939	-1.2619	5.1371e-01	4.1000e+00
149	IHT000022	96.7886	98.5464	97.7144	3.8421e-01	4.2148e+00
150	IHT000023	114.6409	116.7894	115.6371	4.4337e-01	4.2600e+00
151	IHT000024	80.4725	82.4256	81.4217	4.4645e-01	4.1801e+00
152	IHT000025	102.7381	104.8866	103.7069	4.4810e-01	4.2291e+00
153	IHT000026	103.7109	106.2500	104.9570	5.0051e-01	4.2322e+00
154	IHT000027	86.8502	89.1940	88.1509	4.6790e-01	4.1937e+00
155	IHT000028	88.2287	90.7677	89.5295	5.3322e-01	4.1966e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.6396	105.7880	104.7568	5.0229e-01	4.2317e+00
157	IHT000030	105.8143	107.9627	107.0917	5.3410e-01	4.2376e+00
158	IHT000031	94.9594	97.1079	96.0571	5.2924e-01	4.2110e+00
159	IHT000032	95.9886	98.3323	97.1370	5.2592e-01	4.2135e+00
160	IHT000033	95.7782	98.5126	97.0908	5.3385e-01	4.2134e+00
161	IHT000034	88.0521	90.0053	89.1733	4.1161e-01	4.1959e+00
162	IHT000035	116.5978	118.1603	117.3009	4.1760e-01	4.2645e+00
163	IHT000036	87.1432	88.9010	87.8853	4.1946e-01	4.1931e+00

Velocity 1 = 4.4683 (ft/sec) (+/- 8.5711 %)
Velocity 2 = 4.4642 (ft/sec) (+/- 3.4623 %)
Pressure drop = -4.5225 (psi)
Tsat in = 267.8134 (deg F) Tsat out = 273.8960 (deg F)
Phi inner = 99.0900 (kBtu/hr-ft2) (+/- 1.5897 %)
Phi outer = 100.8783 (kBtu/hr-ft2) (+/- 1.4782 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.4827	78.1210	77.8359	1.7518e-01	1.9000e+00
1	TRF000002	77.7870	78.4218	78.2187	1.4783e-01	1.9000e+00
2	TFM000001	87.9677	88.8069	88.4609	1.7506e-01	1.9002e+00
3	TIN000001	87.5255	88.1573	87.8478	1.4486e-01	1.9002e+00
4	TRV000001	88.3395	89.2813	88.8190	2.1153e-01	1.9002e+00
5	TSR000001	126.1144	128.1416	127.1178	5.4231e-01	1.9022e+00
6	TAO020136	61.2235	62.7277	61.9607	3.3208e-01	1.9000e+00
7	TAO050136	193.2751	194.6284	194.1118	2.7573e-01	1.9103e+00
8	TAO070136	193.7183	195.3722	194.4523	3.7468e-01	1.9104e+00
9	TAO080136	225.0180	225.8682	225.4244	1.9140e-01	1.9162e+00
10	TAO090136	233.9613	235.1870	234.6537	2.4794e-01	1.9182e+00
11	TAO100136	231.1098	232.4322	231.8145	3.0363e-01	1.9176e+00
12	TAO105136	237.7096	239.1242	238.5185	2.5853e-01	1.9190e+00
13	TAO110136	247.2402	248.0789	247.5965	1.9692e-01	1.9211e+00
14	TAO115136	241.3129	243.4755	242.3306	5.5689e-01	1.9199e+00
15	TAO120136	254.0838	255.2962	254.6752	2.5952e-01	1.9228e+00
16	TAO125136	139.6982	140.8057	140.3323	2.6221e-01	1.9033e+00
17	TAO130136	248.5951	249.4265	249.0186	2.4773e-01	1.9215e+00
18	TAO120048	101.5170	102.5556	101.9801	2.8835e-01	1.9007e+00
19	TAO130048	235.6933	236.3529	236.0715	1.4807e-01	1.9185e+00
20	TAO120224	236.3684	237.6876	237.0151	2.9867e-01	1.9187e+00
21	TAO130224	226.7752	227.9996	227.4026	2.8322e-01	1.9166e+00
22	TAO120312	226.1914	227.1414	226.6418	2.3102e-01	1.9165e+00
23	TAO130312	221.8771	222.8266	222.4411	1.7642e-01	1.9156e+00
24	TRT020000	172.3856	173.7675	173.1143	3.1206e-01	1.9071e+00
25	TRT070000	201.6369	202.8005	202.1078	2.3176e-01	1.9117e+00
26	TRT100000	220.9195	222.0592	221.4420	2.3999e-01	1.9154e+00
27	TRT120000	230.0759	231.3995	230.8191	2.5199e-01	1.9173e+00
28	TRT125000	92.0199	92.8550	92.4392	2.1326e-01	1.9003e+00
29	TRT130000	224.2746	224.7505	224.4786	1.4114e-01	1.9160e+00
30	EMPTY	39.1464	40.0646	39.7755	2.2627e-01	1.9011e+00
31	TAF050136	133.4234	135.5432	134.6330	4.1303e-01	1.9028e+00
32	TAF070136	151.2472	152.8362	152.0157	3.5521e-01	1.9045e+00
33	TAF080136	219.9649	223.4569	221.8576	8.2372e-01	1.9155e+00
34	TAF090136	89.2680	90.3162	89.8318	2.9553e-01	1.9003e+00
35	TAF100136	182.4501	184.0157	183.1370	3.3358e-01	1.9086e+00
36	TAF105136	186.4598	188.1006	187.4015	3.2254e-01	1.9093e+00
37	TAF110136	191.2760	193.8850	192.6862	4.0301e-01	1.9101e+00
38	TAF115136	197.2836	200.1756	198.5358	5.9330e-01	1.9111e+00
39	TAF120136	227.2852	230.4909	228.6896	8.6119e-01	1.9169e+00
40	TAF125136	208.6618	213.5122	210.3888	1.2002e+00	1.9132e+00
41	TAF130136	212.1334	214.3282	213.0128	5.7960e-01	1.9137e+00
42	TAF120048	191.3372	193.1923	192.2535	3.9009e-01	1.9100e+00
43	TAF130048	199.6991	201.1468	200.2457	3.3952e-01	1.9114e+00
44	TAF120224	188.4902	190.3347	189.4900	3.9738e-01	1.9096e+00
45	TAF130224	194.1945	195.4590	194.8853	2.9308e-01	1.9105e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1216	2.2378e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.7250	1.1583e-01	1.9011e+00
48	TAI130048	236.0767	237.3965	236.7877	3.1704e-01	1.9186e+00
49	TAI130136	251.8037	253.5718	252.7840	3.3805e-01	1.9224e+00
50	TAI130224	223.6478	224.6957	224.2555	2.4710e-01	1.9160e+00
51	TAI130312	226.9671	227.9170	227.4252	2.3151e-01	1.9166e+00
52	TRR130000	104.2611	105.6042	104.9948	3.0646e-01	1.9008e+00
53	TSI000001	68.4681	69.2137	68.8241	1.8704e-01	1.9000e+00
54	TSI000002	86.0816	89.4327	87.8776	8.0876e-01	1.9002e+00
55	TSO000001	68.0401	68.7903	68.3766	1.8865e-01	1.9000e+00
56	TSO000002	79.8725	80.6131	80.1798	2.0736e-01	1.9001e+00
57	TAF020136	103.3317	104.5835	103.9304	2.9252e-01	1.9008e+00
58	TAF120312	179.1894	181.0488	180.1815	4.4911e-01	1.9082e+00
59	TAF130312	192.6293	194.1790	193.4295	3.8975e-01	1.9102e+00
60	EMPTY	2.9639	2.9785	2.9690	3.7447e-03	0.0000e+00
61	EMPTY	2.9590	2.9688	2.9638	2.3114e-03	0.0000e+00
62	EMPTY	2.9541	2.9639	2.9581	2.5515e-03	0.0000e+00
63	EMPTY	2.9541	2.9590	2.9581	1.8950e-03	0.0000e+00
64	EMPTY	1.4453	1.4551	1.4472	2.5894e-03	0.0000e+00
65	EMPTY	1.4600	1.4648	1.4646	9.6655e-04	0.0000e+00
66	EMPTY	1.4746	1.4844	1.4749	1.5314e-03	0.0000e+00
67	EMPTY	1.4844	1.4893	1.4891	9.6655e-04	0.0000e+00
68	EMPTY	1.4941	1.4990	1.4957	2.3008e-03	0.0000e+00
69	EMPTY	1.5088	1.5137	1.5089	6.9053e-04	0.0000e+00
70	EMPTY	1.5137	1.5186	1.5185	6.9053e-04	0.0000e+00
71	EMPTY	1.5381	1.5381	1.5381	0.0000e+00	0.0000e+00
72	EMPTY	1.5430	1.5479	1.5457	2.4484e-03	0.0000e+00
73	EMPTY	1.5576	1.5625	1.5590	2.2146e-03	0.0000e+00
74	EMPTY	1.5674	1.5723	1.5701	2.4484e-03	0.0000e+00
75	EMPTY	1.5820	1.5869	1.5823	1.1714e-03	0.0000e+00
76	EMPTY	1.5918	1.5967	1.5920	9.6655e-04	0.0000e+00
77	EMPTY	1.6016	1.6113	1.6066	1.3811e-03	0.0000e+00
78	EMPTY	1.6211	1.6260	1.6247	2.1635e-03	0.0000e+00
79	EMPTY	1.6406	1.6455	1.6416	1.9730e-03	0.0000e+00
80	PAN020136	-15.4788	-15.0210	-15.3719	9.8696e-02	8.7085e-01
81	PAN050136	-29.8641	-29.4064	-29.6902	1.3790e-01	1.6816e+00
82	PAN070136	-19.3901	-19.0086	-19.2406	9.7436e-02	8.7133e-01
83	PAN080136	-12.5825	-10.2174	-12.0591	5.3127e-01	8.7052e-01
84	PAN090136	-12.7175	-6.8429	-10.0137	1.8268e+00	8.7036e-01
85	PAN100136	-12.1908	-11.0463	-12.0061	3.1138e-01	8.7052e-01
86	PAN105136	-5.8709	-3.8873	-4.8044	4.7043e-01	8.7008e-01
87	PAN110136	-6.6881	5.9767	-2.3119	2.0847e+00	8.7002e-01
88	PAN115136	-7.5597	-1.6087	-3.7389	1.2581e+00	8.7005e-01
89	PAN120136	-6.7482	4.6196	-4.6181	2.1009e+00	8.7008e-01
90	PAN125136	-6.0323	-0.2340	-3.7603	1.1694e+00	8.7005e-01
91	PAN130136	-8.0584	-1.1157	-4.6618	9.9490e-01	8.7008e-01
92	PAN120048	-12.1056	-11.2664	-11.8493	2.1894e-01	8.7050e-01
93	PAN130048	-10.4286	-6.6139	-7.3601	5.4958e-01	8.7019e-01
94	PAN120224	-12.4417	-6.3382	-10.0064	1.1822e+00	8.7036e-01
95	PAN130224	-11.5979	-6.8677	-7.9099	8.2871e-01	8.7022e-01
96	PAN120312	-10.5973	-9.7581	-10.2205	2.6086e-01	8.7038e-01
97	PAN130312	-9.6071	-9.2256	-9.3889	7.8610e-02	8.7032e-01
98	PAB000136	40.2281	40.3654	40.2995	4.7302e-02	5.8869e-01
99	PAB100136	43.7097	43.9386	43.8370	5.1732e-02	5.9026e-01
100	PAB125136	44.4826	44.6657	44.5934	4.9880e-02	5.9062e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9587	40.3249	40.1736	9.0815e-02	7.5669e-01
102	PRV000001	19.7186	19.8406	19.7259	2.9284e-02	7.5162e-01
103	PSR000001	44.5714	44.6935	44.6422	6.0861e-02	7.5826e-01
104	PFM000001	2.8311	3.1057	2.9739	7.8822e-02	5.0006e-01
105	PAN000136	-127.2139	-120.8052	-125.2089	1.0781e+00	4.9299e+00
106	PFM000002	2.9194	3.0368	2.9684	3.1591e-02	2.0014e-01
107	EMPTY	-0.0049	0.0049	-0.0006	4.1432e-03	0.0000e+00
108	EMPTY	-10.0000	-1.1328	-6.6380	2.8723e+00	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	131.7608	132.3468	132.0342	1.3669e-01	1.1330e+00
113	VPW000002	144.4486	145.0346	144.7846	1.4785e-01	1.1878e+00
114	VPW000003	117.8485	118.4345	118.1377	1.3229e-01	1.0764e+00
115	VPW000004	99.1849	99.5756	99.3335	1.1545e-01	1.0056e+00
116	VPW000005	108.2783	108.6689	108.4658	1.0410e-01	1.0391e+00
117	VPW000006	160.5131	160.7084	160.6147	9.8569e-02	1.2589e+00
118	IPW000001	1075.4410	1081.2980	1078.2136	1.7679e+00	1.1754e+01
119	IPW000002	785.6487	793.4537	788.9267	1.4452e+00	1.0220e+01
120	IPW000003	637.6875	641.5875	639.9105	1.2464e+00	9.5481e+00
121	IPW000004	531.8415	533.7946	532.7596	3.2178e-01	4.6598e+00
122	IPW000005	585.8883	587.3530	586.6405	3.4469e-01	5.0476e+00
123	IPW000006	425.6591	427.1240	426.0496	3.5568e-01	3.9152e+00
124	EMPTY	-0.0244	-0.0098	-0.0206	3.8574e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	3.5568e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0179	2.8946e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0178	3.2359e-03	0.0000e+00
128	IHT000001	126.1869	128.3353	127.2456	5.3392e-01	4.2929e+00
129	IHT000002	129.6687	131.8172	130.7938	4.4566e-01	4.3036e+00
130	IHT000003	129.7964	131.7495	130.8355	4.8075e-01	4.3037e+00
131	IHT000004	141.2072	143.1603	142.3400	4.8004e-01	4.3401e+00
132	IHT000005	139.2766	141.4250	140.4757	4.7517e-01	4.3340e+00
133	IHT000006	134.2511	136.0089	135.2080	4.3090e-01	4.3172e+00
134	IHT000007	128.0837	129.8415	129.1032	4.6570e-01	4.2985e+00
135	IHT000008	126.8630	128.8161	127.7926	4.5431e-01	4.2945e+00
136	IHT000009	127.5315	129.4847	128.5003	4.4286e-01	4.2967e+00
137	IHT000010	117.3002	120.2299	118.5931	6.3244e-01	4.2681e+00
138	IHT000011	115.5649	118.1040	116.7642	5.6083e-01	4.2630e+00
139	IHT000012	113.5930	115.9368	114.8039	5.3959e-01	4.2577e+00
140	IHT000013	92.8598	95.2036	93.9614	5.7285e-01	4.2063e+00
141	IHT000014	119.9181	122.0666	120.9025	5.7040e-01	4.2745e+00
142	IHT000015	96.6196	98.9633	97.8462	5.7323e-01	4.2151e+00
143	IHT000016	85.4380	87.9770	86.8442	5.6772e-01	4.1910e+00
144	IHT000017	103.7861	107.4970	105.2588	7.6230e-01	4.2330e+00
145	IHT000018	106.0322	108.9619	107.3252	6.5660e-01	4.2381e+00
146	IHT000019	113.3714	115.5198	114.5159	4.6857e-01	4.2569e+00
147	IHT000020	116.7818	118.9303	118.0044	4.6989e-01	4.2664e+00
148	IHT000021	-2.6330	-0.0939	-1.3517	5.4841e-01	4.1000e+00
149	IHT000022	96.5933	98.5464	97.5698	4.3940e-01	4.2145e+00
150	IHT000023	114.4456	116.5941	115.5472	4.5122e-01	4.2597e+00
151	IHT000024	80.2772	82.2303	81.3865	4.2579e-01	4.1800e+00
152	IHT000025	102.9334	104.4959	103.6405	4.1176e-01	4.2290e+00
153	IHT000026	103.7109	105.8594	104.8125	4.4775e-01	4.2319e+00
154	IHT000027	86.8502	88.8033	87.9439	4.4643e-01	4.1933e+00
155	IHT000028	88.6193	91.1584	89.5842	6.0414e-01	4.1967e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.8349	106.3740	104.7529	5.6806e-01	4.2317e+00
157	IHT000030	105.8143	108.7440	106.9862	5.5524e-01	4.2373e+00
158	IHT000031	94.7641	97.3032	95.7915	5.2022e-01	4.2104e+00
159	IHT000032	95.7933	98.3323	96.8167	5.2580e-01	4.2128e+00
160	IHT000033	95.7782	98.3173	96.8017	5.1533e-01	4.2127e+00
161	IHT000034	88.0521	90.2006	88.9819	4.8095e-01	4.1954e+00
162	IHT000035	116.4025	118.3556	117.1993	5.1120e-01	4.2642e+00
163	IHT000036	86.7525	89.0963	87.7720	4.9330e-01	4.1929e+00

Velocity 1 = 0.000000 (ft/sec)
 Velocity 2 = 0.006500 (ft/sec)
 Pressure Drop = 0.002000 (psi)
 Tsat in = 0.066406 (deg F) Tsat out = 0.078308 (deg F)
 Phi inner = 0.797699 (kBtu/hr-ft2) Phi outer = 0.154007 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1617	0.2082
1	TRF000002	0.1270	0.1626
2	TFM000001	0.1515	0.1716
3	TIN000001	0.2357	0.2690
4	TRV000001	0.1890	0.2132
5	TSR000001	2.0085	1.6054
6	TAO020136	0.6535	1.0659
7	TAO050136	0.5988	0.3094
8	TAO070136	0.6111	0.3153
9	TAO080136	0.8506	0.3788
10	TAO090136	0.7578	0.3240
11	TAO100136	0.6425	0.2779
12	TAO105136	0.9206	0.3875
13	TAO110136	1.0634	0.4313
14	TAO115136	0.6774	0.2803
15	TAO120136	0.7798	0.3071
16	TAO125136	1.8596	1.3429
17	TAO130136	1.1161	0.4502
18	TAO120048	1.8357	1.8331
19	TAO130048	0.8051	0.3422
20	TAO120224	0.8747	0.3704
21	TAO130224	0.7982	0.3522
22	TAO120312	0.8173	0.3619
23	TAO130312	1.1431	0.5165
24	TRT020000	0.4816	0.2790
25	TRT070000	0.7061	0.3506
26	TRT100000	0.9424	0.4274
27	TRT120000	1.5054	0.6565
28	TRT125000	2.1437	2.3741
29	TRT130000	1.1002	0.4925
30	EMPTY	0.1653	0.4173
31	TAF050136	0.5090	0.3795
32	TAF070136	0.4144	0.2733
33	TAF080136	0.5905	0.2669
34	TAF090136	1.4169	1.6026
35	TAF100136	0.7913	0.4340
36	TAF105136	0.7162	0.3836
37	TAF110136	0.9673	0.5045
38	TAF115136	1.0959	0.5551
39	TAF120136	0.9139	0.4012
40	TAF125136	0.9564	0.4567
41	TAF130136	1.2268	0.5793
42	TAF120048	0.8985	0.4695
43	TAF130048	0.8606	0.4316
44	TAF120224	0.8783	0.4657
45	TAF130224	0.9111	0.4697

#	Name	Abs Diff	%Diff
46	EMPTY	0.0414	0.1087
47	EMPTY	0.0551	0.1385
48	TAI130048	0.7998	0.3389
49	TAI130136	1.0763	0.4276
50	TAI130224	0.8690	0.3890
51	TAI130312	0.8926	0.3940
52	TRR130000	0.6155	0.5897
53	TSI000001	0.0051	0.0074
54	TSI000002	1.1918	1.3381
55	TSO000001	0.0083	0.0121
56	TSO000002	0.0765	0.0955
57	TAF020136	0.1789	0.1724
58	TAF120312	0.8068	0.4498
59	TAF130312	0.8101	0.4206
60	EMPTY	0.0160	0.5418
61	EMPTY	0.0167	0.5667
62	EMPTY	0.0171	0.5814
63	EMPTY	0.0172	0.5849
64	EMPTY	0.0063	0.4372
65	EMPTY	0.0068	0.4665
66	EMPTY	0.0061	0.4153
67	EMPTY	0.0070	0.4723
68	EMPTY	0.0058	0.3893
69	EMPTY	0.0051	0.3391
70	EMPTY	0.0053	0.3502
71	EMPTY	0.0068	0.4441
72	EMPTY	0.0062	0.4027
73	EMPTY	0.0045	0.2895
74	EMPTY	0.0054	0.3451
75	EMPTY	0.0050	0.3170
76	EMPTY	0.0052	0.3277
77	EMPTY	0.0050	0.3122
78	EMPTY	0.0058	0.3583
79	EMPTY	0.0050	0.3055
80	PAN020136	0.0504	0.3268
81	PAN050136	0.0763	0.2563
82	PAN070136	0.0152	0.0789
83	PAN080136	0.3341	2.8495
84	PAN090136	0.5081	4.8290
85	PAN100136	0.1343	1.1312
86	PAN105136	1.2298	20.3805
87	PAN110136	0.6866	22.8981
88	PAN115136	0.5997	19.1036
89	PAN120136	1.2115	35.5633
90	PAN125136	0.6866	15.4400
91	PAN130136	0.3036	6.1143
92	PAN120048	0.0534	0.4527
93	PAN130048	0.1831	2.5512
94	PAN120224	0.1831	1.7969
95	PAN130224	0.0687	0.8761
96	PAN120312	0.0474	0.4659
97	PAN130312	0.0106	0.1128
98	PAB000136	0.0448	0.1110
99	PAB100136	0.0220	0.0502
100	PAB125136	0.0577	0.1292

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1001	0.2498
102	PRV000001	0.1440	0.7354
103	PSR000001	0.0147	0.0329
104	PFM000001	0.0000	0.0000
105	PAN000136	0.0550	0.0439
106	PFM000002	0.0088	0.2973
107	EMPTY	0.0043	116.2162
108	EMPTY	2.3539	54.9450
109	EMPTY	0.0027	90.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0508	0.0385
113	VPW000002	0.0664	0.0458
114	VPW000003	0.0664	0.0562
115	VPW000004	0.0429	0.0432
116	VPW000005	0.0976	0.0899
117	VPW000006	0.0664	0.0414
118	IPW000001	2.3815	0.2204
119	IPW000002	12.5270	1.6135
120	IPW000003	10.0230	1.5912
121	IPW000004	2.6270	0.4907
122	IPW000005	1.0740	0.1827
123	IPW000006	1.1524	0.2712
124	EMPTY	0.0021	11.3514
125	EMPTY	0.0032	28.0702
126	EMPTY	0.0041	29.7101
127	EMPTY	0.0027	17.8808
128	IHT000001	0.2304	0.1807
129	IHT000002	0.2734	0.2086
130	IHT000003	0.3086	0.2353
131	IHT000004	0.3164	0.2218
132	IHT000005	0.2071	0.1472
133	IHT000006	0.2344	0.1731
134	IHT000007	0.3086	0.2385
135	IHT000008	0.2617	0.2044
136	IHT000009	0.2188	0.1700
137	IHT000010	0.0547	0.0461
138	IHT000011	0.0235	0.0201
139	IHT000012	0.0313	0.0273
140	IHT000013	0.1836	0.1950
141	IHT000014	0.0195	0.0161
142	IHT000015	0.2187	0.2230
143	IHT000016	0.0274	0.0315
144	IHT000017	0.5312	0.5021
145	IHT000018	0.1094	0.1020
146	IHT000019	0.0781	0.0682
147	IHT000020	0.0000	0.0000
148	IHT000021	0.0898	7.1163
149	IHT000022	0.1446	0.1480
150	IHT000023	0.0899	0.0777
151	IHT000024	0.0352	0.0432
152	IHT000025	0.0664	0.0640
153	IHT000026	0.1445	0.1377
154	IHT000027	0.2070	0.2348
155	IHT000028	0.0547	0.0611

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0039	0.0037
157	IHT000030	0.1055	0.0985
158	IHT000031	0.2656	0.2765
159	IHT000032	0.3203	0.3297
160	IHT000033	0.2891	0.2978
161	IHT000034	0.1914	0.2146
162	IHT000035	0.1016	0.0866
163	IHT000036	0.1133	0.1289

Velocity 1 = 4.0567 (ft/sec) (+/- 10.3770 %)
 Velocity 2 = 4.0775 (ft/sec) (+/- 4.0134 %)
 Pressure drop = -4.6350 (psi)
 Tsat in = 268.0097 (deg F) Tsat out = 274.2037 (deg F)
 Phi inner = 99.2792 (kBtu/hr-ft2) (+/- 1.5863 %)
 Phi outer = 101.4573 (kBtu/hr-ft2) (+/- 1.4773 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.6955	78.3337	77.9593	1.9008e-01	1.9000e+00
1	TRF000002	78.2102	78.6333	78.3837	1.4613e-01	1.9000e+00
2	TFM000001	87.7589	88.5981	88.2518	1.7889e-01	1.9002e+00
3	TIN000001	87.1051	87.8423	87.5368	1.7173e-01	1.9002e+00
4	TRV000001	88.0264	89.0740	88.5358	2.1459e-01	1.9002e+00
5	TSR000001	126.1159	128.1416	126.9405	4.9071e-01	1.9022e+00
6	TAO020136	61.7607	63.2649	62.3732	3.8536e-01	1.9000e+00
7	TAO050136	201.8343	202.8913	202.2904	2.1925e-01	1.9118e+00
8	TAO070136	201.8745	204.2934	203.1150	4.8226e-01	1.9119e+00
9	TAO080136	234.6153	235.6490	235.1629	2.0523e-01	1.9183e+00
10	TAO090136	244.9440	245.8815	245.4295	2.4133e-01	1.9206e+00
11	TAO100136	243.0578	244.5580	243.6189	3.7370e-01	1.9202e+00
12	TAO105136	250.1127	251.4227	250.6689	3.1375e-01	1.9219e+00
13	TAO110136	258.5273	259.8201	259.2238	3.2756e-01	1.9240e+00
14	TAO115136	253.8712	255.3646	254.6758	3.9997e-01	1.9228e+00
15	TAO120136	266.9049	267.9242	267.3109	2.4816e-01	1.9260e+00
16	TAO125136	143.5146	145.2205	144.5318	3.8383e-01	1.9037e+00
17	TAO130136	261.6358	262.6469	262.1093	2.5643e-01	1.9247e+00
18	TAO120048	101.5171	102.6593	101.9888	2.8308e-01	1.9007e+00
19	TAO130048	247.3006	248.2360	247.7478	1.8527e-01	1.9212e+00
20	TAO120224	248.7586	250.0677	249.5010	2.6813e-01	1.9216e+00
21	TAO130224	237.9177	239.7845	238.6472	4.5675e-01	1.9191e+00
22	TAO120312	236.6077	237.6464	237.1760	2.1026e-01	1.9187e+00
23	TAO130312	233.2207	233.9767	233.6495	1.9276e-01	1.9180e+00
24	TRT020000	178.4932	179.7711	179.1912	2.8719e-01	1.9080e+00
25	TRT070000	210.0566	210.9249	210.4832	2.1257e-01	1.9132e+00
26	TRT100000	231.1373	232.0826	231.6495	1.9568e-01	1.9175e+00
27	TRT120000	241.0973	242.1315	241.6368	2.5174e-01	1.9197e+00
28	TRT125000	91.2928	92.1283	91.6713	2.0632e-01	1.9003e+00
29	TRT130000	234.9462	235.7014	235.4122	1.6549e-01	1.9183e+00
30	EMPTY	39.1464	40.0646	39.7801	2.6460e-01	1.9011e+00
31	TAF050136	137.9597	139.3660	138.6756	3.0727e-01	1.9032e+00
32	TAF070136	157.0963	158.5824	158.0022	3.7480e-01	1.9052e+00
33	TAF080136	227.8826	237.5364	231.8750	2.8744e+00	1.9176e+00
34	TAF090136	88.4298	89.6889	89.2290	2.9040e-01	1.9002e+00
35	TAF100136	191.2365	194.2512	192.0753	6.1443e-01	1.9100e+00
36	TAF105136	195.8029	198.7772	197.1106	7.9711e-01	1.9109e+00
37	TAF110136	201.2991	205.3279	202.7224	1.1042e+00	1.9118e+00
38	TAF115136	207.3774	209.7708	208.3228	5.1300e-01	1.9128e+00
39	TAF120136	244.2733	249.4954	246.9104	1.3544e+00	1.9210e+00
40	TAF125136	219.9504	223.0661	221.4331	7.3630e-01	1.9154e+00
41	TAF130136	223.1714	225.6363	224.1637	5.4292e-01	1.9159e+00
42	TAF120048	200.9823	204.1825	202.6449	8.3523e-01	1.9118e+00
43	TAF130048	209.7914	212.1854	210.6935	4.7887e-01	1.9133e+00
44	TAF120224	198.1709	200.7739	199.5849	5.5025e-01	1.9113e+00
45	TAF130224	204.7702	207.0880	205.8929	4.6830e-01	1.9124e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	2.1910e-01	1.9010e+00
47	EMPTY	39.1464	40.0646	39.8398	1.8250e-01	1.9011e+00
48	TAI130048	248.1926	250.3438	249.2534	4.4585e-01	1.9215e+00
49	TAI130136	265.5216	266.9984	266.1360	3.0013e-01	1.9257e+00
50	TAI130224	235.2282	236.1737	235.7145	3.2137e-01	1.9184e+00
51	TAI130312	238.6972	239.7337	239.2983	2.3921e-01	1.9192e+00
52	TRR130000	107.5588	109.3094	108.3476	4.6767e-01	1.9010e+00
53	TSI000001	68.4687	69.3208	68.9311	1.8346e-01	1.9000e+00
54	TSI000002	88.1795	91.4180	89.1797	7.5046e-01	1.9002e+00
55	TSO000001	67.9329	68.7898	68.3505	1.8014e-01	1.9000e+00
56	TSO000002	80.7187	81.6699	81.1433	2.3911e-01	1.9001e+00
57	TAF020136	104.1662	106.0418	105.0937	4.0778e-01	1.9008e+00
58	TAF120312	188.2644	190.2098	189.0761	4.6098e-01	1.9095e+00
59	TAF130312	202.8618	204.5929	203.6556	4.0372e-01	1.9120e+00
60	EMPTY	3.2129	3.2324	3.2209	4.8085e-03	0.0000e+00
61	EMPTY	3.2080	3.2227	3.2135	3.9013e-03	0.0000e+00
62	EMPTY	3.2031	3.2080	3.2047	2.3008e-03	0.0000e+00
63	EMPTY	3.1982	3.2080	3.2032	2.0903e-03	0.0000e+00
64	EMPTY	1.5527	1.5576	1.5568	1.8082e-03	0.0000e+00
65	EMPTY	1.5674	1.5723	1.5718	1.4797e-03	0.0000e+00
66	EMPTY	1.5771	1.5820	1.5817	1.1714e-03	0.0000e+00
67	EMPTY	1.5918	1.5967	1.5952	2.2603e-03	0.0000e+00
68	EMPTY	1.6016	1.6064	1.6018	9.6655e-04	0.0000e+00
69	EMPTY	1.6113	1.6162	1.6159	1.1714e-03	0.0000e+00
70	EMPTY	1.6211	1.6260	1.6254	1.6028e-03	0.0000e+00
71	EMPTY	1.6357	1.6455	1.6408	1.3811e-03	0.0000e+00
72	EMPTY	1.6455	1.6504	1.6497	1.7115e-03	0.0000e+00
73	EMPTY	1.6602	1.6650	1.6644	1.7115e-03	0.0000e+00
74	EMPTY	1.6699	1.6748	1.6745	1.1714e-03	0.0000e+00
75	EMPTY	1.6846	1.6895	1.6848	9.6655e-04	0.0000e+00
76	EMPTY	1.6943	1.6992	1.6944	6.9053e-04	0.0000e+00
77	EMPTY	1.7041	1.7139	1.7089	1.5566e-03	0.0000e+00
78	EMPTY	1.7139	1.7285	1.7243	2.4184e-03	0.0000e+00
79	EMPTY	1.7432	1.7480	1.7433	6.9053e-04	0.0000e+00
80	PAN020136	-15.9365	-15.7076	-15.8022	7.1570e-02	8.7090e-01
81	PAN050136	-31.3900	-30.6271	-30.8834	1.7285e-01	1.6818e+00
82	PAN070136	-19.9242	-19.3138	-19.6800	1.2710e-01	8.7139e-01
83	PAN080136	-13.9558	-10.9803	-13.2051	9.4871e-01	8.7063e-01
84	PAN090136	-13.1753	-12.1835	-12.8793	2.8154e-01	8.7060e-01
85	PAN100136	-10.0545	-6.3161	-8.3287	9.9223e-01	8.7025e-01
86	PAN105136	-6.0998	6.1835	-2.6529	2.2141e+00	8.7003e-01
87	PAN110136	-7.2222	-1.8816	-4.4252	1.4255e+00	8.7007e-01
88	PAN115136	-5.5760	-2.7531	-4.2653	7.0224e-01	8.7007e-01
89	PAN120136	-6.3668	3.4751	-4.3389	1.7016e+00	8.7007e-01
90	PAN125136	-5.9560	-2.4465	-4.2943	9.2499e-01	8.7007e-01
91	PAN130136	-5.7696	-4.0911	-5.0387	3.9058e-01	8.7009e-01
92	PAN120048	-11.4953	-7.9858	-9.3926	7.6700e-01	8.7032e-01
93	PAN130048	-10.8864	-7.1480	-9.1911	9.7549e-01	8.7030e-01
94	PAN120224	-8.4744	-1.7605	-7.1148	1.0071e+00	8.7018e-01
95	PAN130224	-13.1238	-2.5190	-9.6021	1.5179e+00	8.7033e-01
96	PAN120312	-11.5129	-10.6736	-11.0307	1.9155e-01	8.7044e-01
97	PAN130312	-8.9204	-8.1575	-8.5466	1.9814e-01	8.7026e-01
98	PAB000136	40.3196	40.5485	40.4322	5.0832e-02	5.8874e-01
99	PAB100136	43.8928	44.1675	44.0311	6.5714e-02	5.9035e-01
100	PAB125136	44.7573	44.9404	44.8205	4.9709e-02	5.9072e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2028	40.4470	40.3200	5.4925e-02	7.5674e-01
102	PRV000001	19.7186	19.8406	19.7820	6.1605e-02	7.5163e-01
103	PSR000001	44.9376	45.0597	44.9401	1.7263e-02	7.5837e-01
104	PFM000001	2.3733	2.5564	2.4411	6.6201e-02	5.0004e-01
105	PAN000136	-129.9605	-126.2984	-128.3217	8.1725e-01	4.9304e+00
106	PFM000002	2.4327	2.5166	2.4666	2.0478e-02	2.0010e-01
107	EMPTY	-0.0049	0.0049	-0.0020	3.4173e-03	0.0000e+00
108	EMPTY	-10.0000	-2.5049	-5.1763	1.8844e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0003	1.5314e-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	131.9561	132.3468	132.1475	1.2780e-01	1.1335e+00
113	VPW000002	144.6440	145.0346	144.8667	9.6735e-02	1.1881e+00
114	VPW000003	118.0439	118.4345	118.2158	1.1599e-01	1.0767e+00
115	VPW000004	98.9896	99.5756	99.3647	1.1732e-01	1.0058e+00
116	VPW000005	108.2783	108.6689	108.5244	1.0297e-01	1.0393e+00
117	VPW000006	160.3178	160.9037	160.6616	1.3416e-01	1.2591e+00
118	IPW000001	1079.3457	1083.2504	1081.2197	1.3641e+00	1.1772e+01
119	IPW000002	785.6487	791.5025	789.1609	1.4214e+00	1.0221e+01
120	IPW000003	643.5375	649.3875	645.5656	1.3042e+00	9.5718e+00
121	IPW000004	534.7712	536.2360	535.5526	3.4173e-01	4.6798e+00
122	IPW000005	588.3295	589.7942	588.9839	3.2131e-01	5.0646e+00
123	IPW000006	426.1474	427.6123	426.9675	3.6165e-01	3.9214e+00
124	EMPTY	-0.0293	-0.0146	-0.0220	3.8523e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0153	3.1211e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0183	2.9280e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0178	3.2359e-03	0.0000e+00
128	IHT000001	126.1869	128.3353	127.1596	5.0144e-01	4.2927e+00
129	IHT000002	129.6687	131.8172	130.7196	4.4971e-01	4.3033e+00
130	IHT000003	129.7964	132.1402	130.8589	4.4145e-01	4.3038e+00
131	IHT000004	141.0119	143.7462	142.3946	4.8140e-01	4.3402e+00
132	IHT000005	139.2766	141.8157	140.4718	4.6293e-01	4.3340e+00
133	IHT000006	134.0557	136.5948	135.2276	4.6186e-01	4.3173e+00
134	IHT000007	127.8884	130.4274	129.1579	4.9639e-01	4.2986e+00
135	IHT000008	126.6677	128.6208	127.8200	4.5206e-01	4.2946e+00
136	IHT000009	127.1409	129.4847	128.4925	4.9101e-01	4.2966e+00
137	IHT000010	117.6908	119.6439	118.5345	4.9511e-01	4.2679e+00
138	IHT000011	115.9555	118.1040	116.6899	5.2134e-01	4.2628e+00
139	IHT000012	113.7883	115.7415	114.6984	5.1238e-01	4.2574e+00
140	IHT000013	93.0552	95.0083	93.8716	4.8277e-01	4.2061e+00
141	IHT000014	119.9181	121.8712	120.9103	4.6828e-01	4.2746e+00
142	IHT000015	96.8149	98.7680	97.8774	4.4145e-01	4.2152e+00
143	IHT000016	86.0239	87.9770	86.7817	4.3698e-01	4.1908e+00
144	IHT000017	103.7861	106.7158	105.0244	6.4066e-01	4.2324e+00
145	IHT000018	106.0322	108.9619	107.2432	5.8793e-01	4.2379e+00
146	IHT000019	113.3714	115.3245	114.4456	4.7556e-01	4.2567e+00
147	IHT000020	116.9771	118.9303	117.8990	4.6361e-01	4.2661e+00
148	IHT000021	-2.8283	-0.2892	-1.4533	5.8389e-01	4.1000e+00
149	IHT000022	96.3980	98.3511	97.4956	4.6837e-01	4.2143e+00
150	IHT000023	114.4456	116.5941	115.5433	5.2776e-01	4.2597e+00
151	IHT000024	80.2772	82.4256	81.4021	5.3169e-01	4.1800e+00
152	IHT000025	102.5428	104.4959	103.6209	4.8846e-01	4.2289e+00
153	IHT000026	103.7109	106.0547	104.8125	5.3490e-01	4.2319e+00
154	IHT000027	86.8502	89.1940	87.9634	5.3270e-01	4.1933e+00
155	IHT000028	88.4240	90.5724	89.3849	5.5220e-01	4.1963e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.6396	105.7880	104.6357	5.6117e-01	4.2314e+00
157	IHT000030	105.8143	108.3533	106.8924	5.8159e-01	4.2371e+00
158	IHT000031	94.7641	96.9125	95.7016	5.5524e-01	4.2102e+00
159	IHT000032	95.7933	98.1370	96.7659	5.9776e-01	4.2126e+00
160	IHT000033	95.5829	97.9267	96.7470	6.1125e-01	4.2126e+00
161	IHT000034	88.0521	90.2006	88.9702	4.3807e-01	4.1954e+00
162	IHT000035	116.4025	118.1603	117.1798	4.5075e-01	4.2642e+00
163	IHT000036	86.5572	88.7057	87.6861	4.8374e-01	4.1927e+00

Velocity 1 = 4.0345 (ft/sec) (+/- 10.4921 %)
 Velocity 2 = 4.0405 (ft/sec) (+/- 4.0760 %)
 Pressure drop = -4.6432 (psi)
 Tsat in = 267.9651 (deg F) Tsat out = 274.1814 (deg F)
 Phi inner = 99.8209 (kBtu/hr-ft2) (+/- 1.5781 %)
 Phi outer = 101.7492 (kBtu/hr-ft2) (+/- 1.4766 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.6955	78.3337	78.1337	1.6870e-01	1.9000e+00
1	TRF000002	78.2102	78.6333	78.5149	1.2208e-01	1.9000e+00
2	TFM000001	88.1790	89.0180	88.6129	1.5132e-01	1.9002e+00
3	TIN000001	87.6313	88.1575	87.8734	1.3980e-01	1.9002e+00
4	TRV000001	88.4464	89.2833	88.9046	1.9361e-01	1.9002e+00
5	TSR000001	128.8505	129.9625	129.4480	2.6761e-01	1.9024e+00
6	TAO020136	61.9764	63.2644	62.6783	3.3766e-01	1.9000e+00
7	TAO050136	203.0829	204.2336	203.5947	2.4995e-01	1.9120e+00
8	TAO070136	203.2294	205.3557	204.2677	4.5035e-01	1.9121e+00
9	TAO080136	236.0244	236.8688	236.4652	1.8521e-01	1.9186e+00
10	TAO090136	246.4419	247.1898	246.7951	1.6718e-01	1.9209e+00
11	TAO100136	244.5580	246.6177	245.3875	4.7972e-01	1.9206e+00
12	TAO105136	251.6100	253.1062	252.2330	3.2964e-01	1.9222e+00
13	TAO110136	260.3728	261.4796	260.9754	2.4850e-01	1.9244e+00
14	TAO115136	255.6441	257.6013	256.4257	4.9608e-01	1.9233e+00
15	TAO120136	268.9415	269.8657	269.4345	2.1175e-01	1.9266e+00
16	TAO125136	140.6205	146.9221	146.0388	2.6120e-01	1.9039e+00
17	TAO130136	263.1021	264.3849	263.7242	2.4727e-01	1.9251e+00
18	TAO120048	102.8660	103.9033	103.3454	2.5295e-01	1.9007e+00
19	TAO130048	248.8864	249.7264	249.3742	1.8696e-01	1.9216e+00
20	TAO120224	250.0672	251.3758	250.7347	3.5456e-01	1.9219e+00
21	TAO130224	239.4118	241.3691	240.3262	4.9186e-01	1.9194e+00
22	TAO120312	237.9287	239.1543	238.5154	2.3350e-01	1.9190e+00
23	TAO130312	234.8219	235.4818	235.1299	1.7006e-01	1.9183e+00
24	TRT020000	179.3778	180.3603	179.9927	2.4451e-01	1.9081e+00
25	TRT070000	211.3102	212.1783	211.7251	2.2128e-01	1.9135e+00
26	TRT100000	232.6464	233.5893	233.1089	2.3738e-01	1.9178e+00
27	TRT120000	242.5054	244.1005	243.5507	2.7006e-01	1.9202e+00
28	TRT125000	93.2680	93.9983	93.6674	1.8429e-01	1.9004e+00
29	TRT130000	236.5461	237.3000	236.9703	1.6934e-01	1.9187e+00
30	EMPTY	39.3761	40.2940	39.7571	2.1555e-01	1.9011e+00
31	TAF050136	138.6611	140.4700	139.4763	3.8386e-01	1.9032e+00
32	TAF070136	158.2870	159.3678	159.1262	3.7857e-01	1.9053e+00
33	TAF080136	229.3888	240.7132	233.5456	2.5521e+00	1.9179e+00
34	TAF090136	89.1633	90.3165	89.7156	2.8701e-01	1.9003e+00
35	TAF100136	192.5016	196.1927	193.6348	9.8052e-01	1.9103e+00
36	TAF105136	197.1458	201.0764	198.8757	1.0988e+00	1.9112e+00
37	TAF110136	202.1655	207.2431	204.1236	1.1751e+00	1.9121e+00
38	TAF115136	209.0069	213.4021	210.0994	8.1484e-01	1.9132e+00
39	TAF120136	246.8855	252.8426	249.9660	1.2909e+00	1.9217e+00
40	TAF125136	221.7454	224.2928	222.8010	5.1869e-01	1.9157e+00
41	TAF130136	224.6893	226.4889	225.4679	3.4146e-01	1.9162e+00
42	TAF120048	202.7284	205.8288	204.3428	8.9759e-01	1.9121e+00
43	TAF130048	211.2283	213.1409	212.2134	4.7535e-01	1.9136e+00
44	TAF120224	199.3291	201.7376	200.5685	5.6310e-01	1.9115e+00
45	TAF130224	206.6052	209.0174	207.5110	4.7587e-01	1.9127e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1675	2.2185e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9224	1.4580e-01	1.9011e+00
48	TAI130048	249.7831	252.0255	250.9324	5.3423e-01	1.9219e+00
49	TAI130136	267.3673	268.8431	267.8966	3.2158e-01	1.9262e+00
50	TAI130224	236.7407	237.8747	237.2191	2.6123e-01	1.9187e+00
51	TAI130312	240.3927	241.7107	240.9181	3.1430e-01	1.9196e+00
52	TRR130000	106.3237	107.5622	106.6904	2.8561e-01	1.9009e+00
53	TSI000001	68.5759	69.3208	68.9575	1.7626e-01	1.9000e+00
54	TSI000002	85.9788	89.1211	87.3685	6.7355e-01	1.9002e+00
55	TSO000001	67.9324	68.7898	68.4059	2.2187e-01	1.9000e+00
56	TSO000002	80.9294	81.6699	81.3548	2.1497e-01	1.9001e+00
57	TAF020136	104.7911	106.4579	105.6268	3.5182e-01	1.9009e+00
58	TAF120312	189.7234	191.2786	190.4410	3.9731e-01	1.9097e+00
59	TAF130312	204.0155	205.8415	204.9823	4.1233e-01	1.9122e+00
60	EMPTY	3.2422	3.2617	3.2518	4.1806e-03	0.0000e+00
61	EMPTY	3.2373	3.2471	3.2436	2.6174e-03	0.0000e+00
62	EMPTY	3.2324	3.2373	3.2355	2.3675e-03	0.0000e+00
63	EMPTY	3.2275	3.2373	3.2340	2.5034e-03	0.0000e+00
64	EMPTY	1.5674	1.5723	1.5704	2.3941e-03	0.0000e+00
65	EMPTY	1.5869	1.5869	1.5869	0.0000e+00	0.0000e+00
66	EMPTY	1.5967	1.5967	1.5967	0.0000e+00	0.0000e+00
67	EMPTY	1.6016	1.6113	1.6090	2.6543e-03	0.0000e+00
68	EMPTY	1.6162	1.6211	1.6163	6.9053e-04	0.0000e+00
69	EMPTY	1.6260	1.6309	1.6299	1.9730e-03	0.0000e+00
70	EMPTY	1.6357	1.6406	1.6387	2.4164e-03	0.0000e+00
71	EMPTY	1.6553	1.6553	1.6553	0.0000e+00	0.0000e+00
72	EMPTY	1.6602	1.6699	1.6646	1.6624e-03	0.0000e+00
73	EMPTY	1.6748	1.6797	1.6781	2.3008e-03	0.0000e+00
74	EMPTY	1.6846	1.6895	1.6880	2.2603e-03	0.0000e+00
75	EMPTY	1.6943	1.7041	1.6993	1.2041e-03	0.0000e+00
76	EMPTY	1.7041	1.7139	1.7088	1.3811e-03	0.0000e+00
77	EMPTY	1.7188	1.7236	1.7233	1.1714e-03	0.0000e+00
78	EMPTY	1.7383	1.7480	1.7386	1.5314e-03	0.0000e+00
79	EMPTY	1.7529	1.7578	1.7577	6.9053e-04	0.0000e+00
80	PAN020136	-16.0128	-15.7076	-15.8831	9.1514e-02	8.7091e-01
81	PAN050136	-31.5426	-30.9322	-31.2832	1.5794e-01	1.6818e+00
82	PAN070136	-19.8479	-19.1612	-19.4435	1.5510e-01	8.7136e-01
83	PAN080136	-13.9558	-11.1329	-13.5209	7.6918e-01	8.7066e-01
84	PAN090136	-13.1753	-11.4205	-12.7206	4.8790e-01	8.7058e-01
85	PAN100136	-10.3597	-6.0109	-7.4773	9.9550e-01	8.7020e-01
86	PAN105136	-5.1080	4.1999	-3.1015	1.7159e+00	8.7003e-01
87	PAN110136	-7.2222	-1.1186	-4.6510	1.3067e+00	8.7008e-01
88	PAN115136	-6.0338	-3.1346	-4.5308	7.3942e-01	8.7007e-01
89	PAN120136	-6.2142	-2.9335	-4.3557	7.2128e-01	8.7007e-01
90	PAN125136	-5.5745	-2.4465	-4.5720	6.5685e-01	8.7008e-01
91	PAN130136	-5.6933	-4.0148	-4.9319	3.4345e-01	8.7009e-01
92	PAN120048	-12.0293	-4.4762	-9.5055	1.1421e+00	8.7032e-01
93	PAN130048	-12.7174	-8.0635	-9.7099	9.5938e-01	8.7034e-01
94	PAN120224	-9.2373	-6.3382	-7.6611	7.0846e-01	8.7021e-01
95	PAN130224	-11.2928	-3.2056	-9.2878	1.3345e+00	8.7031e-01
96	PAN120312	-11.2840	-5.4094	-10.6141	1.0318e+00	8.7040e-01
97	PAN130312	-13.4981	-8.3101	-9.0669	9.1421e-01	8.7030e-01
98	PAB000136	40.3196	40.5027	40.4020	5.3926e-02	5.8873e-01
99	PAB100136	43.8471	44.1217	43.9752	6.9823e-02	5.9033e-01
100	PAB125136	44.7573	44.8946	44.8040	4.1863e-02	5.9072e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2028	40.5690	40.3567	1.3909e-01	7.5676e-01
102	PRV000001	19.7186	19.8406	19.7259	2.9284e-02	7.5162e-01
103	PSR000001	44.8156	45.1818	44.9327	6.9580e-02	7.5837e-01
104	PFM000001	2.2817	2.5564	2.4136	7.4355e-02	5.0004e-01
105	PAN000136	-130.4183	-127.2139	-128.5506	6.4632e-01	4.9305e+00
106	PFM000002	2.3824	2.4663	2.4210	2.2551e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0006	4.1432e-03	0.0000e+00
108	EMPTY	-10.0000	-1.4697	-4.7714	1.6585e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0006	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	131.7608	132.1514	131.9756	9.8648e-02	1.1328e+00
113	VPW000002	144.6440	145.0346	144.8862	1.1545e-01	1.1882e+00
114	VPW000003	118.0439	118.6298	118.3798	1.7664e-01	1.0773e+00
115	VPW000004	98.9896	99.5756	99.2983	1.3141e-01	1.0055e+00
116	VPW000005	108.2783	108.6689	108.4853	9.9902e-02	1.0391e+00
117	VPW000006	160.3178	160.9037	160.6303	1.3087e-01	1.2590e+00
118	IPW000001	1063.7269	1073.4886	1069.0765	2.9466e+00	1.1702e+01
119	IPW000002	797.3563	805.1614	801.7274	1.8724e+00	1.0282e+01
120	IPW000003	659.1375	664.9875	662.2574	1.4204e+00	9.6427e+00
121	IPW000004	531.8415	533.3063	532.8378	3.5513e-01	4.6604e+00
122	IPW000005	590.7706	592.2354	591.4642	3.7027e-01	5.0826e+00
123	IPW000006	426.1474	428.1006	427.1628	5.2977e-01	3.9227e+00
124	EMPTY	-0.0293	-0.0146	-0.0226	3.8066e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.7902e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0183	3.3901e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	3.4173e-03	0.0000e+00
128	IHT000001	126.5775	129.3119	127.4643	5.6937e-01	4.2936e+00
129	IHT000002	130.2547	132.9890	131.1922	5.3087e-01	4.3048e+00
130	IHT000003	130.1870	132.7261	131.1753	5.2409e-01	4.3047e+00
131	IHT000004	141.5978	144.3322	142.6798	5.5413e-01	4.3412e+00
132	IHT000005	139.6672	142.4016	140.7648	5.7030e-01	4.3349e+00
133	IHT000006	134.4464	136.9854	135.5244	5.3122e-01	4.3182e+00
134	IHT000007	128.2790	130.8181	129.5211	5.6739e-01	4.2997e+00
135	IHT000008	127.2536	129.2067	128.1364	5.2086e-01	4.2956e+00
136	IHT000009	127.9222	130.0706	128.7933	4.6890e-01	4.2975e+00
137	IHT000010	117.4955	119.4486	118.2884	4.1274e-01	4.2672e+00
138	IHT000011	115.7602	117.7134	116.4438	3.9705e-01	4.2621e+00
139	IHT000012	113.5930	115.5461	114.5109	3.9311e-01	4.2569e+00
140	IHT000013	93.0552	94.6177	93.7934	3.5577e-01	4.2059e+00
141	IHT000014	119.7228	121.2853	120.6642	3.9398e-01	4.2739e+00
142	IHT000015	96.8149	98.5727	97.7212	4.0194e-01	4.2148e+00
143	IHT000016	85.8286	87.5864	86.6255	3.8831e-01	4.1905e+00
144	IHT000017	103.3954	106.5204	104.8330	6.9672e-01	4.2319e+00
145	IHT000018	106.4228	108.3759	107.1924	5.0749e-01	4.2378e+00
146	IHT000019	112.9808	115.5198	114.2347	5.9594e-01	4.2562e+00
147	IHT000020	116.5865	119.1256	117.6841	5.7709e-01	4.2656e+00
148	IHT000021	-3.2189	0.2967	-1.5509	7.2674e-01	4.1000e+00
149	IHT000022	96.2027	98.9371	97.3863	5.7644e-01	4.2141e+00
150	IHT000023	113.8597	116.7894	115.3050	5.9189e-01	4.2591e+00
151	IHT000024	79.6912	82.4256	81.1053	5.5882e-01	4.1795e+00
152	IHT000025	101.7616	104.4959	103.6131	5.7486e-01	4.2289e+00
153	IHT000026	102.9297	105.8594	104.7813	5.7621e-01	4.2318e+00
154	IHT000027	86.0690	88.9987	87.8033	5.9665e-01	4.1930e+00
155	IHT000028	88.2287	91.3537	89.3537	6.2460e-01	4.1962e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.6396	106.1786	104.6709	5.3093e-01	4.2315e+00
157	IHT000030	105.8143	108.3533	106.9667	4.7882e-01	4.2372e+00
158	IHT000031	94.5688	96.7172	95.6469	4.4335e-01	4.2101e+00
159	IHT000032	95.5980	97.7464	96.7151	4.4475e-01	4.2125e+00
160	IHT000033	95.5829	97.9267	96.6767	4.4817e-01	4.2124e+00
161	IHT000034	88.0521	90.0053	88.9350	4.0480e-01	4.1953e+00
162	IHT000035	116.0119	118.1603	117.0431	4.4300e-01	4.2638e+00
163	IHT000036	86.7525	88.9010	87.7017	4.4118e-01	4.1928e+00

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Velocity 1 = 0.022200 (ft/sec)

Velocity 2 = 0.037000 (ft/sec)

Pressure Drop = 0.008200 (psi)

Tsat in = 0.044617 (deg F) Tsat out = 0.022308 (deg F)

Phi inner = 0.541702 (kBtu/hr-ft2) Phi outer = 0.291901 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1744	0.2237
1	TRF000002	0.1312	0.1674
2	TFM000001	0.3611	0.4092
3	TIN000001	0.3366	0.3845
4	TRV000001	0.3688	0.4166
5	TSR000001	2.5075	1.9753
6	TAO020136	0.3051	0.4892
7	TAO050136	1.3043	0.6448
8	TAO070136	1.1527	0.5675
9	TAO080136	1.3023	0.5538
10	TAO090136	1.3656	0.5564
11	TAO100136	1.7686	0.7260
12	TAO105136	1.5641	0.6240
13	TAO110136	1.7516	0.6757
14	TAO115136	1.7499	0.6871
15	TAO120136	2.1236	0.7944
16	TAO125136	1.5070	1.0427
17	TAO130136	1.6149	0.6161
18	TAO120048	1.3566	1.3301
19	TAO130048	1.6264	0.6565
20	TAO120224	1.2337	0.4945
21	TAO130224	1.6790	0.7035
22	TAO120312	1.3394	0.5647
23	TAO130312	1.4804	0.6336
24	TRT020000	0.8015	0.4473
25	TRT070000	1.2419	0.5900
26	TRT100000	1.4594	0.6300
27	TRT120000	1.9139	0.7921
28	TRT125000	1.9961	2.1774
29	TRT130000	1.5581	0.6619
30	EMPTY	0.0230	0.0578
31	TAF050136	0.8007	0.5774
32	TAF070136	1.1240	0.7114
33	TAF080136	1.6706	0.7205
34	TAF090136	0.4866	0.5453
35	TAF100136	1.5595	0.8119
36	TAF105136	1.7651	0.8955
37	TAF110136	1.4012	0.6912
38	TAF115136	1.7766	0.8528
39	TAF120136	3.0556	1.2375
40	TAF125136	1.3679	0.6177
41	TAF130136	1.3042	0.5818
42	TAF120048	1.6979	0.8379
43	TAF130048	1.5199	0.7214
44	TAF120224	0.9836	0.4928
45	TAF130224	1.6181	0.7859

#	Name	Abs Diff	%Diff
46	EMPTY	0.0551	0.1446
47	EMPTY	0.0826	0.2073
48	TAI130048	1.6790	0.6736
49	TAI130136	1.7606	0.6615
50	TAI130224	1.5046	0.6383
51	TAI130312	1.6198	0.6769
52	TRR130000	1.6572	1.5295
53	TSI000001	0.0264	0.0383
54	TSI000002	1.8112	2.0310
55	TSO000001	0.0554	0.0810
56	TSO000002	0.2115	0.2606
57	TAF020136	0.5331	0.5073
58	TAF120312	1.3649	0.7219
59	TAF130312	1.3267	0.6514
60	EMPTY	0.0309	0.9594
61	EMPTY	0.0301	0.9367
62	EMPTY	0.0308	0.9611
63	EMPTY	0.0308	0.9615
64	EMPTY	0.0136	0.8736
65	EMPTY	0.0151	0.9607
66	EMPTY	0.0150	0.9483
67	EMPTY	0.0138	0.8651
68	EMPTY	0.0145	0.9052
69	EMPTY	0.0140	0.8664
70	EMPTY	0.0133	0.8183
71	EMPTY	0.0145	0.8837
72	EMPTY	0.0149	0.9032
73	EMPTY	0.0137	0.8231
74	EMPTY	0.0135	0.8062
75	EMPTY	0.0145	0.8606
76	EMPTY	0.0144	0.8499
77	EMPTY	0.0144	0.8426
78	EMPTY	0.0143	0.8293
79	EMPTY	0.0144	0.8260
80	PAN020136	0.0809	0.5119
81	PAN050136	0.3998	1.2945
82	PAN070136	0.2365	1.2017
83	PAN080136	0.3158	2.3915
84	PAN090136	0.1587	1.2322
85	PAN100136	0.8514	10.2225
86	PAN105136	0.4486	16.9098
87	PAN110136	0.2258	5.1026
88	PAN115136	0.2655	6.2247
89	PAN120136	0.0168	0.3872
90	PAN125136	0.2777	6.4667
91	PAN130136	0.1068	2.1196
92	PAN120048	0.1129	1.2020
93	PAN130048	0.5188	5.6446
94	PAN120224	0.5463	7.6784
95	PAN130224	0.3143	3.2732
96	PAN120312	0.4166	3.7767
97	PAN130312	0.5203	6.0878
98	PAB000136	0.0302	0.0747
99	PAB100136	0.0559	0.1270
100	PAB125136	0.0165	0.0368

#	Name	Abs Diff	%Diff
101	PIN0000001	0.0367	0.0910
102	PRV0000001	0.0561	0.2836
103	PSR0000001	0.0074	0.0165
104	PFM0000001	0.0275	1.1265
105	PAN000136	0.2289	0.1784
106	PFM0000002	0.0456	1.8487
107	EMPTY	0.0014	70.0000
108	EMPTY	0.4049	7.8222
109	EMPTY	0.0003	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW0000001	0.1719	0.1301
113	VPW0000002	0.0195	0.0135
114	VPW0000003	0.1640	0.1387
115	VPW0000004	0.0664	0.0668
116	VPW0000005	0.0391	0.0360
117	VPW0000006	0.0313	0.0195
118	IPW0000001	12.1432	1.1231
119	IPW0000002	12.5665	1.5924
120	IPW0000003	16.6918	2.5856
121	IPW0000004	2.7148	0.5069
122	IPW0000005	2.4803	0.4211
123	IPW0000006	0.1953	0.0457
124	EMPTY	0.0006	2.7273
125	EMPTY	0.0007	4.5752
126	EMPTY	0.0000	0.0000
127	EMPTY	0.0022	12.3596
128	IHT0000001	0.3047	0.2396
129	IHT0000002	0.4726	0.3615
130	IHT0000003	0.3164	0.2418
131	IHT0000004	0.2852	0.2003
132	IHT0000005	0.2930	0.2086
133	IHT0000006	0.2968	0.2195
134	IHT0000007	0.3632	0.2812
135	IHT0000008	0.3164	0.2475
136	IHT0000009	0.3008	0.2341
137	IHT0000010	0.2461	0.2076
138	IHT0000011	0.2461	0.2109
139	IHT0000012	0.1875	0.1635
140	IHT0000013	0.0782	0.0833
141	IHT0000014	0.2461	0.2035
142	IHT0000015	0.1562	0.1596
143	IHT0000016	0.1562	0.1800
144	IHT0000017	0.1914	0.1822
145	IHT0000018	0.0508	0.0474
146	IHT0000019	0.2109	0.1843
147	IHT0000020	0.2149	0.1823
148	IHT0000021	0.0976	6.7157
149	IHT0000022	0.1093	0.1121
150	IHT0000023	0.2383	0.2062
151	IHT0000024	0.2968	0.3646
152	IHT0000025	0.0078	0.0075
153	IHT0000026	0.0312	0.0298
154	IHT0000027	0.1601	0.1820
155	IHT0000028	0.0312	0.0349

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0352	0.0336
157	IHT000030	0.0743	0.0695
158	IHT000031	0.0547	0.0572
159	IHT000032	0.0508	0.0525
160	IHT000033	0.0703	0.0727
161	IHT000034	0.0352	0.0396
162	IHT000035	0.1367	0.1167
163	IHT000036	0.0156	0.0178

Velocity 1 = 3.5905 (ft/sec) (+/- 13.2575 %)
Velocity 2 = 3.5419 (ft/sec) (+/- 5.1479 %)
Pressure drop = -4.7448 (psi)
Tsats in = 268.0124 (deg F) Tsats out = 274.3534 (deg F)
Phi inner = 99.4487 (kBtu/hr-ft2) (+/- 1.5772 %)
Phi outer = 101.4557 (kBtu/hr-ft2) (+/- 1.4784 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.9082	78.5463	78.3039	1.8235e-01	1.9000e+00
1	TRF000002	78.4218	78.8448	78.6967	1.4332e-01	1.9001e+00
2	TFM000001	87.7605	88.5998	88.2468	2.1066e-01	1.9002e+00
3	TIN000001	87.2109	87.8420	87.5225	1.3937e-01	1.9002e+00
4	TRV000001	88.2383	88.9705	88.5360	1.7471e-01	1.9002e+00
5	TSR000001	126.3216	129.0562	127.6417	6.5518e-01	1.9022e+00
6	TAO020136	61.9758	63.4797	62.6634	3.0222e-01	1.9000e+00
7	TAO050136	213.8697	215.8684	214.6390	3.7257e-01	1.9140e+00
8	TAO070136	217.9572	220.1590	218.9879	5.0151e-01	1.9149e+00
9	TAO080136	252.3438	253.2735	252.8422	2.0560e-01	1.9224e+00
10	TAO090136	263.0874	264.3838	263.5467	2.8614e-01	1.9251e+00
11	TAO100136	263.1815	265.9586	264.9255	5.0500e-01	1.9254e+00
12	TAO105136	271.5989	273.0774	272.4013	3.2359e-01	1.9274e+00
13	TAO110136	280.1508	281.7931	281.0159	3.1493e-01	1.9298e+00
14	TAO115136	276.4081	277.6060	276.9833	2.7771e-01	1.9286e+00
15	TAO120136	288.5233	289.5303	288.9850	2.0993e-01	1.9320e+00
16	TAO125136	152.2120	153.2089	152.7626	2.7195e-01	1.9046e+00
17	TAO130136	282.1939	283.0129	282.5941	1.9783e-01	1.9302e+00
18	TAO120048	104.0063	105.2497	104.6156	3.5677e-01	1.9008e+00
19	TAO130048	268.2505	269.0819	268.6755	1.9299e-01	1.9264e+00
20	TAO120224	269.4819	270.6833	269.9220	2.4457e-01	1.9267e+00
21	TAO130224	258.0381	260.0668	258.7940	4.0378e-01	1.9239e+00
22	TAO120312	256.2151	257.7068	256.8233	2.6453e-01	1.9234e+00
23	TAO130312	251.9514	252.6048	252.2761	1.8761e-01	1.9223e+00
24	TRT020000	188.9727	190.5331	189.8351	3.6779e-01	1.9096e+00
25	TRT070000	224.2739	225.5162	225.0236	2.5704e-01	1.9161e+00
26	TRT100000	249.5164	250.7298	249.9982	2.7222e-01	1.9217e+00
27	TRT120000	262.1790	263.6625	262.7687	2.9961e-01	1.9249e+00
28	TRT125000	95.4498	95.9711	95.6874	1.5463e-01	1.9004e+00
29	TRT130000	253.8483	254.5011	254.1094	1.5302e-01	1.9227e+00
30	EMPTY	39.3761	40.0646	39.6607	1.9432e-01	1.9011e+00
31	TAF050136	145.3785	148.0776	146.9861	5.4616e-01	1.9040e+00
32	TAF070136	168.4323	169.8071	169.0641	3.9476e-01	1.9066e+00
33	TAF080136	241.8341	249.3669	247.1524	1.4205e+00	1.9210e+00
34	TAF090136	90.8395	91.8867	91.4551	3.1689e-01	1.9003e+00
35	TAF100136	207.6917	212.4962	208.8033	9.3536e-01	1.9129e+00
36	TAF105136	212.5108	215.3581	213.6736	5.7190e-01	1.9139e+00
37	TAF110136	218.8697	221.6215	220.0239	5.8658e-01	1.9151e+00
38	TAF115136	225.7572	227.8403	226.6439	4.5908e-01	1.9165e+00
39	TAF120136	267.5469	269.1139	268.3395	4.0300e-01	1.9263e+00
40	TAF125136	239.3911	241.7238	240.6635	5.1358e-01	1.9195e+00
41	TAF130136	243.9902	245.3019	244.6464	3.2701e-01	1.9204e+00
42	TAF120048	219.7971	221.7147	220.7564	4.9634e-01	1.9152e+00
43	TAF130048	228.4522	230.4379	229.3405	4.3744e-01	1.9170e+00
44	TAF120224	215.5341	218.0131	216.6405	6.6866e-01	1.9144e+00
45	TAF130.24	223.1242	225.2234	224.0441	3.7376e-01	1.9159e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1767	1.8747e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0004	1.1393e-01	1.9011e+00
48	TAI130048	270.1311	271.8861	271.1619	4.1808e-01	1.9271e+00
49	TAI130136	284.7091	285.5331	285.1523	2.1423e-01	1.9309e+00
50	TAI130224	254.6886	255.9033	255.4175	2.9662e-01	1.9230e+00
51	TAI130312	259.4865	260.6967	260.0154	2.9392e-01	1.9242e+00
52	TRR130000	111.5675	113.1067	112.3716	3.3136e-01	1.9012e+00
53	TSI000001	68.4704	69.3231	68.8968	1.9844e-01	1.9000e+00
54	TSI000002	86.9227	89.9567	87.8657	6.0196e-01	1.9002e+00
55	TSO000001	67.8252	68.6817	68.3048	2.1993e-01	1.9000e+00
56	TSO000002	82.1969	83.0415	82.6402	1.8596e-01	1.9001e+00
57	TAF020136	106.9774	108.9535	107.7438	4.9445e-01	1.9010e+00
58	TAF120312	204.3253	207.0171	205.6524	6.3557e-01	1.9124e+00
59	TAF130312	220.1713	222.5474	221.2557	5.3628e-01	1.9154e+00
60	EMPTY	3.6475	3.6719	3.6598	5.7724e-03	0.0000e+00
61	EMPTY	3.6377	3.6523	3.6480	3.9013e-03	0.0000e+00
62	EMPTY	3.6279	3.6426	3.6355	3.1444e-03	0.0000e+00
63	EMPTY	3.6230	3.6377	3.6315	2.5743e-03	0.0000e+00
64	EMPTY	1.7432	1.7578	1.7484	1.9331e-03	0.0000e+00
65	EMPTY	1.7627	1.7773	1.7631	2.1702e-03	0.0000e+00
66	EMPTY	1.7676	1.7725	1.7718	1.7115e-03	0.0000e+00
67	EMPTY	1.7822	1.7871	1.7833	2.0432e-03	0.0000e+00
68	EMPTY	1.7871	1.7920	1.7911	1.8950e-03	0.0000e+00
69	EMPTY	1.8018	1.8066	1.8019	6.9053e-04	0.0000e+00
70	EMPTY	1.8066	1.8164	1.8104	2.2689e-03	0.0000e+00
71	EMPTY	1.8213	1.8262	1.8260	9.6655e-04	0.0000e+00
72	EMPTY	1.8262	1.8359	1.8323	2.3778e-03	0.0000e+00
73	EMPTY	1.8457	1.8506	1.8459	9.6655e-04	0.0000e+00
74	EMPTY	1.8506	1.8604	1.8552	1.5314e-03	0.0000e+00
75	EMPTY	1.8652	1.8701	1.8653	6.9053e-04	0.0000e+00
76	EMPTY	1.8701	1.8750	1.8740	1.9730e-03	0.0000e+00
77	EMPTY	1.8848	1.8945	1.8864	2.5362e-03	0.0000e+00
78	EMPTY	1.8994	1.9043	1.9033	1.9730e-03	0.0000e+00
79	EMPTY	1.9189	1.9238	1.9190	6.9053e-04	0.0000e+00
80	PAN020136	-16.6232	-16.1654	-16.3821	1.0938e-01	8.7096e-01
81	PAN050136	-33.9840	-30.9322	-33.0685	8.3633e-01	1.6820e+00
82	PAN070136	-21.6789	-18.3983	-19.4115	8.4214e-01	8.7135e-01
83	PAN080136	-13.9558	-9.5307	-13.3638	9.7015e-01	8.7064e-01
84	PAN090136	-13.1753	0.4050	-9.7756	2.6665e+00	8.7034e-01
85	PAN100136	-12.1908	-6.0872	-9.1146	1.5930e+00	8.7030e-01
86	PAN105136	-6.0235	-0.3015	-4.3557	1.0201e+00	8.7007e-01
87	PAN110136	-5.8489	-2.9497	-4.8143	5.2659e-01	8.7008e-01
88	PAN115136	-5.8812	-2.9820	-4.5750	5.2512e-01	8.7008e-01
89	PAN120136	-4.9172	-3.8491	-4.3587	2.6761e-01	8.7007e-01
90	PAN125136	-4.8679	-3.8961	-4.4454	2.1579e-01	8.7007e-01
91	PAN130136	-5.0829	-4.7778	-4.9700	7.5888e-02	8.7009e-01
92	PAN120048	-12.0293	-9.0539	-10.2303	5.7427e-01	8.7038e-01
93	PAN130048	-9.8183	-8.9790	-9.4978	1.7095e-01	8.7032e-01
94	PAN120224	-12.2891	-7.7115	-9.0497	8.4131e-01	8.7029e-01
95	PAN130224	-10.1483	-9.1565	-9.7058	2.3629e-01	8.7034e-01
96	PAN120312	-13.7254	-9.4529	-10.3669	6.9044e-01	8.7039e-01
97	PAN130312	-9.9885	-8.9967	-9.4896	2.5756e-01	8.7032e-01
98	PAB000136	40.3196	40.5485	40.4341	4.9155e-02	5.8874e-01
99	PAB100136	43.9386	44.3506	44.0540	6.6844e-02	5.9036e-01
100	PAB125136	44.8031	45.0320	44.9313	5.1492e-02	5.9078e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3249	40.6911	40.4934	8.8543e-02	7.5680e-01
102	PRV000001	19.5965	19.7186	19.6917	5.1081e-02	7.5161e-01
103	PSR000001	45.0597	45.1818	45.1232	6.1605e-02	7.5844e-01
104	PFM000001	1.7324	2.0071	1.9009	7.0092e-02	5.0002e-01
105	PAN000136	-132.7071	-129.9605	-131.3613	6.5662e-01	4.9309e+00
106	PFM000002	1.8119	1.8958	1.8485	1.9677e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	0.0007	4.1864e-03	0.0000e+00
108	EMPTY	-6.4648	-3.8037	-5.3193	6.0704e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0012	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	VPW000001	131.9561	132.3468	132.0850	1.1578e-01	1.1332e+00
113	VPW000002	144.4486	145.0346	144.7768	1.1464e-01	1.1877e+00
114	VPW000003	118.0439	118.6298	118.3134	1.8462e-01	1.0770e+00
115	VPW000004	99.1849	99.7709	99.4350	1.0470e-01	1.0060e+00
116	VPW000005	108.4736	108.8642	108.6298	1.2478e-01	1.0397e+00
117	VPW000006	160.5131	161.0990	160.7514	1.1361e-01	1.2595e+00
118	IPW000001	1055.9176	1063.7269	1059.5875	1.4567e+00	1.1648e+01
119	IPW000002	797.3563	805.1614	799.6194	1.3859e+00	1.0272e+01
120	IPW000003	663.0375	666.9375	664.6367	1.1614e+00	9.6529e+00
121	IPW000004	527.4470	530.3766	528.7167	6.3931e-01	4.6310e+00
122	IPW000005	590.2824	591.7471	590.8784	4.1014e-01	5.0784e+00
123	IPW000006	425.6591	426.6357	426.2644	2.8862e-01	3.9166e+00
124	EMPTY	-0.0293	-0.0098	-0.0185	4.5517e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0113	3.4793e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0140	3.2733e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.4229e-03	0.0000e+00
128	IHT000001	126.1869	128.3353	127.1167	4.9056e-01	4.2925e+00
129	IHT000002	129.6687	131.8172	130.6610	4.8942e-01	4.3032e+00
130	IHT000003	129.7964	131.9449	130.7964	4.9856e-01	4.3036e+00
131	IHT000004	141.2072	143.3556	142.4220	5.2093e-01	4.3403e+00
132	IHT000005	139.6672	141.4250	140.5265	4.6855e-01	4.3341e+00
133	IHT000006	134.0557	136.0089	135.1963	5.0279e-01	4.3172e+00
134	IHT000007	128.0837	130.2321	129.0758	5.1726e-01	4.2984e+00
135	IHT000008	126.8630	128.6208	127.7418	4.8367e-01	4.2944e+00
136	IHT000009	127.5315	129.6800	128.3910	5.0533e-01	4.2963e+00
137	IHT000010	117.1049	119.6439	118.4134	4.7227e-01	4.2676e+00
138	IHT000011	115.1743	117.5180	116.5259	4.6994e-01	4.2624e+00
139	IHT000012	113.2024	115.5461	114.5109	4.8528e-01	4.2569e+00
140	IHT000013	92.4692	94.6177	93.8559	4.3629e-01	4.2061e+00
141	IHT000014	119.7228	121.8712	120.7579	4.0289e-01	4.2741e+00
142	IHT000015	97.0102	98.7680	97.8423	4.1349e-01	4.2151e+00
143	IHT000016	86.0239	88.1723	86.7895	4.4265e-01	4.1909e+00
144	IHT000017	105.3486	108.2783	106.4423	5.3379e-01	4.2359e+00
145	IHT000018	106.2275	109.3525	107.2861	5.2213e-01	4.2380e+00
146	IHT000019	113.5667	115.5198	114.4456	4.6730e-01	4.2567e+00
147	IHT000020	116.9771	119.1256	117.9380	4.9574e-01	4.2663e+00
148	IHT000021	-2.0470	0.2967	-1.1252	5.6364e-01	4.1000e+00
149	IHT000022	96.9839	99.1324	97.6519	4.7693e-01	4.2147e+00
150	IHT000023	114.8363	116.9847	115.5355	4.7530e-01	4.2597e+00
151	IHT000024	80.4725	82.6209	81.3396	4.6715e-01	4.1799e+00
152	IHT000025	102.7381	104.8866	103.7303	4.8302e-01	4.2292e+00
153	IHT000026	103.9063	105.6641	104.9180	4.6302e-01	4.2321e+00
154	IHT000027	87.0455	88.8033	87.9830	4.0434e-01	4.1933e+00
155	IHT000028	88.4240	90.7677	89.5529	5.6811e-01	4.1967e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.4443	106.5693	104.8154	6.5613e-01	4.2319e+00
157	IHT000030	106.0096	108.7440	107.0877	6.6643e-01	4.2375e+00
158	IHT000031	94.7641	97.6938	95.8735	6.4891e-01	4.2106e+00
159	IHT000032	95.7933	98.7230	96.9378	6.3382e-01	4.2130e+00
160	IHT000033	95.7782	98.7079	96.9150	6.0321e-01	4.2130e+00
161	IHT000034	88.0521	90.5912	89.0405	5.2706e-01	4.1956e+00
162	IHT000035	116.0119	118.5509	117.0665	4.9912e-01	4.2639e+00
163	IHT000036	86.9479	89.2916	87.7916	4.7259e-01	4.1929e+00

Velocity 1 = 3.5668 (ft/sec) (+/- 13.4359 %)
Velocity 2 = 3.5322 (ft/sec) (+/- 5.1739 %)
Pressure drop = -4.7362 (psi)
Tsat in = 267.6397 (deg F) Tsat out = 274.0302 (deg F)
Phi inner = 99.2528 (kBtu/hr-ft2) (+/- 1.5869 %)
Phi outer = 101.4078 (kBtu/hr-ft2) (+/- 1.4774 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.1210	78.7589	78.4145	2.0101e-01	1.9000e+00
1	TRF000002	78.6333	79.0563	78.8279	1.3402e-01	1.9001e+00
2	TFM000001	87.8655	88.7052	88.3290	2.1522e-01	1.9002e+00
3	TIN000001	87.4212	87.8428	87.6256	1.3348e-01	1.9002e+00
4	TRV000001	88.1343	89.1803	88.6476	2.2897e-01	1.9002e+00
5	TSR000001	129.3587	131.7857	130.6507	7.3216e-01	1.9025e+00
6	TAO020136	63.1568	64.5523	63.7646	3.4187e-01	1.9000e+00
7	TAO050136	213.9675	215.5844	214.5848	3.7349e-01	1.9140e+00
8	TAO070136	218.4364	220.9247	219.6290	5.7427e-01	1.9150e+00
9	TAO080136	252.2516	253.0892	252.6853	2.1151e-01	1.9224e+00
10	TAO090136	262.5326	263.9221	263.0790	2.8936e-01	1.9250e+00
11	TAO100136	263.5523	265.9581	264.5578	5.0696e-01	1.9253e+00
12	TAO105136	271.1371	272.6155	271.7970	3.8409e-01	1.9272e+00
13	TAO110136	280.2426	281.5189	280.8259	2.6451e-01	1.9297e+00
14	TAO115136	275.4872	276.9620	276.1413	3.2225e-01	1.9284e+00
15	TAO120136	288.2495	289.2561	288.7091	2.0715e-01	1.9320e+00
16	TAO125136	154.4021	155.4970	154.9901	2.2699e-01	1.9049e+00
17	TAO130136	281.7436	283.6472	282.2940	2.7746e-01	1.9301e+00
18	TAO120048	105.3519	106.3879	105.9464	2.7078e-01	1.9009e+00
19	TAO130048	268.3439	269.1748	268.7221	1.9489e-01	1.9264e+00
20	TAO120224	269.2053	270.4070	269.8761	2.6914e-01	1.9267e+00
21	TAO130224	258.2228	259.6079	258.8487	3.4855e-01	1.9239e+00
22	TAO120312	256.8676	258.3593	257.6864	3.6228e-01	1.9236e+00
23	TAO130312	252.5099	253.2569	252.9152	2.0172e-01	1.9224e+00
24	TRT020000	189.2656	190.3385	189.8058	2.5546e-01	1.9096e+00
25	TRT070000	224.5604	225.6111	225.1092	2.6586e-01	1.9161e+00
26	TRT100000	249.9828	251.0101	250.4181	2.5190e-01	1.9218e+00
27	TRT120000	261.4377	262.6441	261.9480	2.3656e-01	1.9247e+00
28	TRT125000	95.3468	96.0759	95.7402	1.9073e-01	1.9004e+00
29	TRT130000	254.2203	254.9667	254.5657	2.0028e-01	1.9228e+00
30	EMPTY	39.1464	40.0646	39.7204	2.2836e-01	1.9011e+00
31	TAF050136	145.5798	148.5773	146.9769	5.2609e-01	1.9040e+00
32	TAF070136	167.9421	170.0026	168.8550	4.4745e-01	1.9066e+00
33	TAF080136	242.7678	248.9023	246.8358	1.3483e+00	1.9210e+00
34	TAF090136	91.4672	92.4098	91.7963	2.3443e-01	1.9003e+00
35	TAF100136	207.0175	212.6887	208.7898	1.0591e+00	1.9129e+00
36	TAF105136	212.0396	215.0746	213.4641	6.7497e-01	1.9138e+00
37	TAF110136	218.3977	220.9584	219.6698	5.9561e-01	1.9150e+00
38	TAF115136	225.5684	227.8403	226.5706	5.7771e-01	1.9164e+00
39	TAF120136	266.6277	268.6547	267.7750	4.9459e-01	1.9262e+00
40	TAF125136	238.9230	241.1666	240.3159	4.6117e-01	1.9194e+00
41	TAF130136	243.6168	248.6658	244.7272	8.1708e-01	1.9205e+00
42	TAF120048	219.6055	222.5752	220.9877	6.6065e-01	1.9153e+00
43	TAF130048	228.8299	230.3435	229.5093	3.9756e-01	1.9171e+00
44	TAF120224	215.4389	218.0140	216.6582	6.0175e-01	1.9144e+00
45	TAF130224	223.3148	224.9373	224.0840	3.2126e-01	1.9159e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1170	2.2868e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9224	1.3022e-01	1.9011e+00
48	TAI130048	270.4082	271.9778	271.1418	4.3162e-01	1.9271e+00
49	TAI130136	284.4360	285.4427	284.9100	2.2980e-01	1.9309e+00
50	TAI130224	255.2492	256.6497	255.9238	2.7357e-01	1.9231e+00
51	TAI130312	259.2081	260.6031	259.9578	2.7847e-01	1.9242e+00
52	TRR130000	109.8229	111.1601	110.2533	2.8961e-01	1.9011e+00
53	TSI000001	68.4710	69.3231	68.9591	1.9391e-01	1.9000e+00
54	TSI000002	83.8824	86.6099	84.9974	5.8963e-01	1.9002e+00
55	TSO000001	67.9319	68.7889	68.2937	2.3100e-01	1.9000e+00
56	TSO000002	82.1968	83.1474	82.6932	1.7995e-01	1.9001e+00
57	TAF020136	106.9774	108.5386	107.7911	3.7401e-01	1.9010e+00
58	TAF120312	205.6724	209.6085	207.3799	1.1213e+00	1.9127e+00
59	TAF130312	220.8373	223.6871	222.1585	5.5334e-01	1.9155e+00
60	EMPTY	3.6621	3.6963	3.6805	7.0144e-03	0.0000e+00
61	EMPTY	3.6572	3.6768	3.6695	4.9560e-03	0.0000e+00
62	EMPTY	3.6475	3.6621	3.6569	4.1161e-03	0.0000e+00
63	EMPTY	3.6475	3.6621	3.6530	3.2733e-03	0.0000e+00
64	EMPTY	1.7529	1.7627	1.7573	2.0337e-03	0.0000e+00
65	EMPTY	1.7676	1.7773	1.7721	1.6624e-03	0.0000e+00
66	EMPTY	1.7773	1.7822	1.7811	2.1065e-03	0.0000e+00
67	EMPTY	1.7871	1.7969	1.7922	1.6972e-03	0.0000e+00
68	EMPTY	1.7969	1.8018	1.7996	2.4484e-03	0.0000e+00
69	EMPTY	1.8066	1.8164	1.8106	2.3531e-03	0.0000e+00
70	EMPTY	1.8164	1.8213	1.8187	2.4583e-03	0.0000e+00
71	EMPTY	1.8311	1.8359	1.8345	2.2603e-03	0.0000e+00
72	EMPTY	1.8311	1.8457	1.8404	2.9330e-03	0.0000e+00
73	EMPTY	1.8506	1.8555	1.8539	2.3008e-03	0.0000e+00
74	EMPTY	1.8604	1.8652	1.8631	2.4484e-03	0.0000e+00
75	EMPTY	1.8701	1.8750	1.8732	2.3675e-03	0.0000e+00
76	EMPTY	1.8799	1.8848	1.8817	2.3941e-03	0.0000e+00
77	EMPTY	1.8896	1.8994	1.8947	1.6972e-03	0.0000e+00
78	EMPTY	1.9092	1.9141	1.9097	1.4797e-03	0.0000e+00
79	EMPTY	1.9238	1.9287	1.9272	2.2603e-03	0.0000e+00
80	PAN020136	-16.6232	-16.1654	-16.4553	9.2482e-02	8.7097e-01
81	PAN050136	-34.2892	-30.9322	-33.4042	7.9377e-01	1.6821e+00
82	PAN070136	-21.3737	-18.3980	-19.1704	7.6986e-01	8.7132e-01
83	PAN080136	-13.9558	-7.6234	-13.3378	1.1584e+00	8.7064e-01
84	PAN090136	-13.1753	-8.4451	-11.5853	1.3567e+00	8.7048e-01
85	PAN100136	-9.4442	-3.7221	-7.6390	1.3820e+00	8.7021e-01
86	PAN105136	-6.4813	0.0800	-4.6441	9.7921e-01	8.7008e-01
87	PAN110136	-6.0777	-2.6445	-4.5061	6.5558e-01	8.7007e-01
88	PAN115136	-7.0256	-3.6687	-5.0877	6.7908e-01	8.7009e-01
89	PAN120136	-4.5357	-2.1706	-3.8170	5.1240e-01	8.7005e-01
90	PAN125136	-4.8116	-4.2013	-4.5522	1.6955e-01	8.7007e-01
91	PAN130136	-5.0066	-4.7778	-4.8846	7.0634e-02	8.7009e-01
92	PAN120048	-11.0375	-8.4435	-10.1998	5.5113e-01	8.7037e-01
93	PAN130048	-9.8945	-8.9790	-9.4154	1.9316e-01	8.7032e-01
94	PAN120224	-10.7632	-7.4826	-8.8162	5.5366e-01	8.7028e-01
95	PAN130224	-9.9958	-9.0802	-9.6677	2.0751e-01	8.7034e-01
96	PAN120312	-13.6491	-9.6055	-10.4188	7.0510e-01	8.7039e-01
97	PAN130312	-14.5662	-8.9204	-9.6727	7.4562e-01	8.7034e-01
98	PAB000136	40.0908	40.2739	40.1823	4.2381e-02	5.8864e-01
99	PAB100136	43.7097	44.0302	43.8104	5.4713e-02	5.9025e-01
100	PAB125136	44.6200	44.7573	44.6923	4.2471e-02	5.9066e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9587	40.3249	40.1150	8.9057e-02	7.5668e-01
102	PRV000001	19.5965	19.7186	19.7112	2.9284e-02	7.5162e-01
103	PSR000001	44.8156	44.9376	44.8546	5.7521e-02	7.5834e-01
104	PFM000001	1.7324	2.0071	1.8753	7.4355e-02	5.0002e-01
105	PAN000136	-132.2493	-129.9605	-131.1232	5.9369e-01	4.9309e+00
106	PFM000002	1.7951	1.8790	1.8381	2.3032e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	0.0031	2.9197e-03	0.0000e+00
108	EMPTY	-7.9688	-3.6279	-5.3456	8.1868e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0018	2.3675e-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	131.9561	132.3468	132.1475	1.3945e-01	1.1335e+00
113	VPW000002	144.8393	145.2299	144.9956	1.0440e-01	1.1887e+00
114	VPW000003	118.0439	118.6298	118.3017	1.8271e-01	1.0770e+00
115	VPW000004	99.1849	99.7709	99.4389	1.1334e-01	1.0060e+00
116	VPW000005	108.2783	108.8642	108.5752	1.1327e-01	1.0395e+00
117	VPW000006	160.5131	161.0990	160.7788	1.2327e-01	1.2596e+00
118	IPW000001	1075.4410	1081.2980	1078.0179	1.3912e+00	1.1753e+01
119	IPW000002	787.5999	793.4537	790.1367	1.7740e+00	1.0226e+01
120	IPW000003	641.5875	649.3875	645.4095	1.9284e+00	9.5712e+00
121	IPW000004	534.7712	537.2126	535.4843	5.9361e-01	4.6793e+00
122	IPW000005	587.8412	590.7706	589.3648	4.8963e-01	5.0674e+00
123	IPW000006	425.1709	426.6357	425.6394	4.1806e-01	3.9124e+00
124	EMPTY	-0.0244	-0.0098	-0.0175	3.7029e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0118	3.7029e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0132	3.5908e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.1644e-03	0.0000e+00
128	IHT000001	126.3822	128.7260	127.2378	5.3509e-01	4.2929e+00
129	IHT000002	129.8640	132.0125	130.7079	4.9196e-01	4.3033e+00
130	IHT000003	129.9917	132.1402	130.9058	4.9981e-01	4.3039e+00
131	IHT000004	141.4025	143.5509	142.3712	5.0526e-01	4.3402e+00
132	IHT000005	139.6672	141.4250	140.5109	4.8237e-01	4.3341e+00
133	IHT000006	134.4464	136.3995	135.2119	4.6662e-01	4.3172e+00
134	IHT000007	128.4743	130.2321	129.2438	4.6590e-01	4.2989e+00
135	IHT000008	127.2536	128.8161	127.9528	4.2147e-01	4.2950e+00
136	IHT000009	127.7268	129.4847	128.5628	4.4650e-01	4.2968e+00
137	IHT000010	117.4955	119.6439	118.5384	4.6120e-01	4.2679e+00
138	IHT000011	115.5649	117.5180	116.6899	4.3146e-01	4.2628e+00
139	IHT000012	113.5930	115.7415	114.7101	4.9918e-01	4.2574e+00
140	IHT000013	92.8598	95.0083	94.0317	4.4117e-01	4.2064e+00
141	IHT000014	119.9181	122.0666	120.9728	4.6186e-01	4.2747e+00
142	IHT000015	96.8149	99.1587	97.9868	4.3584e-01	4.2155e+00
143	IHT000016	85.8286	87.9770	86.9223	4.1196e-01	4.1911e+00
144	IHT000017	105.7392	107.8876	106.5908	5.1563e-01	4.2363e+00
145	IHT000018	106.4228	108.9619	107.4072	5.8255e-01	4.2384e+00
146	IHT000019	113.3714	115.7151	114.5277	4.4615e-01	4.2570e+00
147	IHT000020	117.1725	119.1256	117.9849	4.5225e-01	4.2664e+00
148	IHT000021	-2.4377	-0.0939	-1.1486	4.9912e-01	4.1000e+00
149	IHT000022	96.3980	98.7418	97.6050	4.1888e-01	4.2146e+00
150	IHT000023	114.6409	116.5941	115.5902	4.4118e-01	4.2598e+00
151	IHT000024	80.2772	82.2303	81.2771	4.0939e-01	4.1798e+00
152	IHT000025	102.7381	104.4959	103.6756	4.4990e-01	4.2291e+00
153	IHT000026	103.7109	106.0547	104.8750	4.9120e-01	4.2320e+00
154	IHT000027	86.6549	89.1940	87.9791	4.8213e-01	4.1933e+00
155	IHT000028	88.2287	90.5724	89.6310	5.6178e-01	4.1968e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.4443	106.3740	104.9091	5.7352e-01	4.2321e+00
157	IHT000030	105.6190	108.5487	107.1112	6.2858e-01	4.2376e+00
158	IHT000031	94.5688	97.1079	95.9126	5.8612e-01	4.2107e+00
159	IHT000032	95.5980	98.3323	96.9729	5.8655e-01	4.2131e+00
160	IHT000033	95.5829	98.1220	96.9345	5.6612e-01	4.2130e+00
161	IHT000034	88.0521	90.0053	89.1186	4.6052e-01	4.1957e+00
162	IHT000035	116.0119	118.1603	117.2033	4.9166e-01	4.2642e+00
163	IHT000036	86.7525	88.9010	87.8384	5.0557e-01	4.1930e+00

Velocity 1 = 0.023700 (ft/sec)

Velocity 2 = 0.009700 (ft/sec)

Pressure Drop = 0.008600 (psi)

Tsat in = 0.372681 (deg F) Tsat out = 0.323181 (deg F)

Phi inner = 0.195900 (kBtu/hr-ft2) Phi outer = 0.047905 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1106	0.1412
1	TRF000002	0.1312	0.1667
2	TFM000001	0.0822	0.0931
3	TIN000001	0.1031	0.1178
4	TRV000001	0.1116	0.1260
5	TSR000001	3.0090	2.3574
6	TAO020136	1.1012	1.7573
7	TAO050136	0.0542	0.0253
8	TAO070136	0.6411	0.2928
9	TAO080136	0.1569	0.0621
10	TAO090136	0.4677	0.1775
11	TAO100136	0.3677	0.1388
12	TAO105136	0.6043	0.2218
13	TAO110136	0.1900	0.0676
14	TAO115136	0.8420	0.3040
15	TAO120136	0.2759	0.0955
16	TAO125136	2.2275	1.4581
17	TAO130136	0.3001	0.1062
18	TAO120048	1.3308	1.2721
19	TAO130048	0.0466	0.0173
20	TAO120224	0.0459	0.0170
21	TAO130224	0.0547	0.0211
22	TAO120312	0.8631	0.3361
23	TAO130312	0.6391	0.2533
24	TRT020000	0.0293	0.0154
25	TRT070000	0.0856	0.0380
26	TRT100000	0.4199	0.1680
27	TRT120000	0.8207	0.3123
28	TRT125000	0.0528	0.0552
29	TRT130000	0.4563	0.1796
30	EMPTY	0.0597	0.1505
31	TAF050136	0.0092	0.0063
32	TAF070136	0.2091	0.1237
33	TAF080136	0.3166	0.1281
34	TAF090136	0.3412	0.3731
35	TAF100136	0.0135	0.0065
36	TAF105136	0.2095	0.0980
37	TAF110136	0.3541	0.1609
38	TAF115136	0.0733	0.0323
39	TAF120136	0.5645	0.2104
40	TAF125136	0.3476	0.1444
41	TAF130136	0.0808	0.0330
42	TAF120048	0.2313	0.1048
43	TAF130048	0.1688	0.0736
44	TAF120224	0.0177	0.0082
45	TAF130224	0.0399	0.0178

#	Name	Abs Diff	%Diff
46	EMPTY	0.0597	0.1564
47	EMPTY	0.0780	0.1950
48	TAI130048	0.0201	0.0074
49	TAI130136	0.2423	0.0850
50	TAI130224	0.5063	0.1982
51	TAI130312	0.0576	0.0222
52	TRR130000	2.1183	1.8851
53	TSI000001	0.0623	0.0904
54	TSI000002	2.8683	3.2644
55	TSO000001	0.0111	0.0163
56	TSO000002	0.0530	0.0641
57	TAF020136	0.0473	0.0439
58	TAF120312	1.7275	0.8400
59	TAF130312	0.9028	0.4080
60	EMPTY	0.0207	0.5656
61	EMPTY	0.0215	0.5894
62	EMPTY	0.0214	0.5886
63	EMPTY	0.0215	0.5920
64	EMPTY	0.0089	0.5090
65	EMPTY	0.0090	0.5105
66	EMPTY	0.0093	0.5249
67	EMPTY	0.0089	0.4991
68	EMPTY	0.0085	0.4746
69	EMPTY	0.0087	0.4828
70	EMPTY	0.0083	0.4585
71	EMPTY	0.0085	0.4655
72	EMPTY	0.0081	0.4421
73	EMPTY	0.0080	0.4334
74	EMPTY	0.0079	0.4258
75	EMPTY	0.0079	0.4235
76	EMPTY	0.0077	0.4109
77	EMPTY	0.0083	0.4400
78	EMPTY	0.0064	0.3363
79	EMPTY	0.0082	0.4273
80	PAN020136	0.0732	0.4468
81	PAN050136	0.3357	1.0152
82	PAN070136	0.2411	1.2420
83	PAN080136	0.0260	0.1946
84	PAN090136	1.8097	18.5124
85	PAN100136	1.4756	16.1894
86	PAN105136	0.2884	6.6212
87	PAN110136	0.3082	6.4018
88	PAN115136	0.5127	11.2066
89	PAN120136	0.5417	12.4280
90	PAN125136	0.1068	2.4025
91	PAN130136	0.0854	1.7183
92	PAN120048	0.0305	0.2981
93	PAN130048	0.0824	0.8676
94	PAN120224	0.2335	2.5802
95	PAN130224	0.0381	0.3926
96	PAN120312	0.0519	0.5006
97	PAN130312	0.1831	1.9295
98	PAB000136	0.2518	0.6227
99	PAB100136	0.2436	0.5530
100	PAB125136	0.2390	0.5319

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.3784	0.9345
102	PRV000001	0.0195	0.0990
103	PSR000001	0.2686	0.5953
104	PFM000001	0.0256	1.3467
105	PAN000136	0.2381	0.1813
106	PFM000002	0.0104	0.5626
107	EMPTY	0.0024	342.8572
108	EMPTY	0.0263	0.4944
109	EMPTY	0.0006	50.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0625	0.0473
113	VPW000002	0.2188	0.1511
114	VPW000003	0.0117	0.0099
115	VPW000004	0.0039	0.0039
116	VPW000005	0.0546	0.0503
117	VPW000006	0.0274	0.0170
118	IPW000001	18.4304	1.7394
119	IPW000002	9.4827	1.1859
120	IPW000003	19.2272	2.8929
121	IPW000004	6.7676	1.2800
122	IPW000005	1.5136	0.2562
123	IPW000006	0.6250	0.1466
124	EMPTY	0.0010	5.4054
125	EMPTY	0.0005	4.4248
126	EMPTY	0.0008	5.7143
127	EMPTY	0.0003	1.8750
128	IHT000001	0.1211	0.0953
129	IHT000002	0.0469	0.0359
130	IHT000003	0.1094	0.0836
131	IHT000004	0.0508	0.0357
132	IHT000005	0.0156	0.0111
133	IHT000006	0.0156	0.0115
134	IHT000007	0.1680	0.1302
135	IHT000008	0.2110	0.1652
136	IHT000009	0.1718	0.1338
137	IHT000010	0.1250	0.1056
138	IHT000011	0.1640	0.1407
139	IHT000012	0.1992	0.1740
140	IHT000013	0.1758	0.1873
141	IHT000014	0.2149	0.1780
142	IHT000015	0.1445	0.1477
143	IHT000016	0.1328	0.1530
144	IHT000017	0.1485	0.1395
145	IHT000018	0.1211	0.1129
146	IHT000019	0.0821	0.0717
147	IHT000020	0.0469	0.0398
148	IHT000021	0.0234	2.0796
149	IHT000022	0.0469	0.0480
150	IHT000023	0.0547	0.0473
151	IHT000024	0.0625	0.0768
152	IHT000025	0.0547	0.0527
153	IHT000026	0.0430	0.0410
154	IHT000027	0.0039	0.0044
155	IHT000028	0.0781	0.0872

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0937	0.0894
157	IHT000030	0.0235	0.0219
158	IHT000031	0.0391	0.0408
159	IHT000032	0.0351	0.0362
160	IHT000033	0.0195	0.0201
161	IHT000034	0.0781	0.0877
162	IHT000035	0.1368	0.1169
163	IHT000036	0.0468	0.0533

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Velocity 1 = 3.4878 (ft/sec) (+/- 14.0582 %)
Velocity 2 = 3.4671 (ft/sec) (+/- 5.3545 %)
Pressure drop = -4.4574 (psi)
Tsat in = 267.7389 (deg F) Tsat out = 273.9718 (deg F)
Phi inner = 99.3603 (kBtu/hr-ft2) (+/- 1.5850 %)
Phi outer = 100.9421 (kBtu/hr-ft2) (+/- 1.4785 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.1210	78.9715	78.6186	1.9970e-01	1.9001e+00
1	TRF000002	78.8448	79.2677	79.0224	1.3749e-01	1.9001e+00
2	TFM000001	87.7608	88.6006	88.2292	2.0574e-01	1.9002e+00
3	TIN000001	87.1056	88.1580	87.5081	1.9097e-01	1.9002e+00
4	TRV000001	88.1357	89.0783	88.6322	1.9616e-01	1.9002e+00
5	TSR000001	128.8554	132.7958	130.4295	1.1412e+00	1.9025e+00
6	TAO020136	64.0152	65.6235	64.6912	3.6716e-01	1.9000e+00
7	TAO050136	213.9675	216.9134	215.6772	6.2231e-01	1.9142e+00
8	TAO070136	216.2315	218.7233	217.5182	5.8880e-01	1.9146e+00
9	TAO080136	250.1171	251.7919	250.8453	4.5837e-01	1.9219e+00
10	TAO090136	260.4025	261.8866	261.2690	3.8760e-01	1.9245e+00
11	TAO100136	259.3820	262.6279	261.0610	8.4415e-01	1.9244e+00
12	TAO105136	263.9109	270.3049	266.7615	1.7713e+00	1.9259e+00
13	TAO110136	274.2297	281.1570	277.6674	2.1944e+00	1.9288e+00
14	TAO115136	271.7955	279.3549	275.2627	2.1837e+00	1.9282e+00
15	TAO120136	284.6807	290.5353	287.7831	1.8522e+00	1.9317e+00
16	TAO125136	151.8019	157.7828	156.3939	9.0879e-01	1.9050e+00
17	TAO130136	287.0795	294.2789	291.6056	1.9840e+00	1.9328e+00
18	TAO120048	106.4901	107.6283	107.0964	2.8712e-01	1.9009e+00
19	TAO130048	294.2249	338.4821	317.3937	1.6353e+01	1.9408e+00
20	TAO120224	247.8257	253.2431	250.7763	1.7723e+00	1.9219e+00
21	TAO130224	242.2121	248.3384	245.2076	1.8486e+00	1.9206e+00
22	TAO120312	262.2662	277.0713	268.7643	3.7675e+00	1.9264e+00
23	TAO130312	263.6442	284.9659	273.2802	7.2131e+00	1.9276e+00
24	TRT020000	191.2149	192.7729	191.8756	3.6184e-01	1.9100e+00
25	TRT070000	230.0960	235.0417	231.8679	1.2788e+00	1.9176e+00
26	TRT100000	262.2429	267.0480	264.8699	1.3615e+00	1.9254e+00
27	TRT120000	271.6081	290.4074	278.7610	6.2635e+00	1.9291e+00
28	TRT125000	95.3487	96.3874	95.8456	1.8818e-01	1.9004e+00
29	TRT130000	288.5680	298.1210	293.5336	3.0055e+00	1.9334e+00
30	EMPTY	39.3761	40.0646	39.7480	2.2185e-01	1.9011e+00
31	TAF050136	146.7789	149.8719	148.4152	7.5047e-01	1.9041e+00
32	TAF070136	169.6110	173.8213	171.4907	1.1518e+00	1.9069e+00
33	TAF080136	240.9057	248.1632	244.8403	1.5672e+00	1.9205e+00
34	TAF090136	91.2581	92.4100	91.9434	3.1786e-01	1.9003e+00
35	TAF100136	209.1341	219.2933	212.4464	2.5277e+00	1.9136e+00
36	TAF105136	214.6955	222.8283	217.5199	1.9099e+00	1.9146e+00
37	TAF110136	222.8545	227.2986	224.5285	9.1709e-01	1.9160e+00
38	TAF115136	229.7293	233.3120	231.5135	8.0632e-01	1.9175e+00
39	TAF120136	266.6286	271.8711	269.2850	1.5348e+00	1.9266e+00
40	TAF125136	250.2769	267.8911	256.1596	3.9758e+00	1.9232e+00
41	TAF130136	265.0103	274.2274	272.7708	1.8073e+00	1.9275e+00
42	TAF120048	245.8566	275.3111	262.2092	1.1029e+01	1.9247e+00
43	TAF130048	273.8925	274.7218	274.3777	1.8806e-01	1.9279e+00
44	TAF120224	211.7169	216.2026	213.7435	1.0812e+00	1.9139e+00
45	TAF130224	218.7228	225.8906	222.1105	2.2448e+00	1.9155e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1354	2.0772e-01	1.9010e+00
47	EMPTY	39.6057	40.5234	40.0187	2.6221e-01	1.9011e+00
48	TAI130048	279.0680	281.5490	280.2021	5.5442e-01	1.9295e+00
49	TAI130136	289.0895	294.5481	292.6074	1.5377e+00	1.9331e+00
50	TAI130224	260.5658	285.0720	271.3645	8.6051e+00	1.9271e+00
51	TAI130312	246.5950	249.6871	248.3929	7.8694e-01	1.9213e+00
52	TRR130000	112.9013	116.7902	115.0863	1.1094e+00	1.9014e+00
53	TSI000001	68.7908	69.6433	69.2025	1.9132e-01	1.9000e+00
54	TSI000002	84.0930	86.2976	85.3300	4.6469e-01	1.9002e+00
55	TSO000001	68.0386	68.7884	68.4433	1.8131e-01	1.9000e+00
56	TSO000002	84.2000	85.2536	84.7376	2.1220e-01	1.9001e+00
57	TAF020136	107.3937	109.1605	108.3477	4.5668e-01	1.9010e+00
58	TAF120312	223.4476	267.0311	232.4007	1.1109e+01	1.9177e+00
59	TAF130312	240.4848	275.5027	254.9168	1.1807e+01	1.9229e+00
60	EMPTY	4.2041	5.0342	4.5565	2.9804e-01	0.0000e+00
61	EMPTY	4.2188	4.9805	4.5728	2.8472e-01	0.0000e+00
62	EMPTY	4.2188	4.9219	4.5845	2.6498e-01	0.0000e+00
63	EMPTY	4.2383	4.8877	4.6025	2.4073e-01	0.0000e+00
64	EMPTY	2.0215	2.3047	2.1874	1.0253e-01	0.0000e+00
65	EMPTY	2.0361	2.3096	2.2076	9.7360e-02	0.0000e+00
66	EMPTY	2.0508	2.3145	2.2213	9.1162e-02	0.0000e+00
67	EMPTY	2.0703	2.3193	2.2367	8.4284e-02	0.0000e+00
68	EMPTY	2.0850	2.3242	2.2476	7.7902e-02	0.0000e+00
69	EMPTY	2.1045	2.3291	2.2612	7.0609e-02	0.0000e+00
70	EMPTY	2.1240	2.3291	2.2709	6.3333e-02	0.0000e+00
71	EMPTY	2.1484	2.3389	2.2881	5.6583e-02	0.0000e+00
72	EMPTY	2.1680	2.3389	2.2958	4.9743e-02	0.0000e+00
73	EMPTY	2.1973	2.3486	2.3083	4.2770e-02	0.0000e+00
74	EMPTY	2.2119	2.3486	2.3162	3.7105e-02	0.0000e+00
75	EMPTY	2.2363	2.3535	2.3255	3.1332e-02	0.0000e+00
76	EMPTY	2.2510	2.3584	2.3309	2.6903e-02	0.0000e+00
77	EMPTY	2.2754	2.3633	2.3407	2.2900e-02	0.0000e+00
78	EMPTY	2.2949	2.3730	2.3529	2.0280e-02	0.0000e+00
79	EMPTY	2.3193	2.3828	2.3657	1.7626e-02	0.0000e+00
80	PAN020136	-17.1572	-16.0891	-16.4797	2.0135e-01	8.7097e-01
81	PAN050136	-34.4418	-30.7796	-33.0074	1.0999e+00	1.6820e+00
82	PAN070136	-20.6871	-16.9487	-18.8591	1.1805e+00	8.7128e-01
83	PAN080136	-14.0321	-13.7269	-13.8230	6.8604e-02	8.7069e-01
84	PAN090136	-12.3360	-7.6058	-10.0366	1.0752e+00	8.7036e-01
85	PAN100136	-10.2071	-2.5777	-7.3690	1.4269e+00	8.7020e-01
86	PAN105136	-7.7020	-1.2933	-4.4565	1.2786e+00	8.7007e-01
87	PAN110136	-5.4674	-0.2794	-4.0560	1.0730e+00	8.7006e-01
88	PAN115136	-7.1782	-4.1264	-5.7866	6.8976e-01	8.7012e-01
89	PAN120136	-4.6883	-2.0943	-3.4050	5.3676e-01	8.7004e-01
90	PAN125136	-3.7435	-0.3103	-2.7257	7.6132e-01	8.7003e-01
91	PAN130136	-0.1238	0.7917	0.2012	2.0321e-01	8.7000e-01
92	PAN120048	-11.9530	-0.5090	-9.0691	3.5923e+00	8.7030e-01
93	PAN130048	-0.8919	1.7784	0.3639	5.3422e-01	8.7000e-01
94	PAN120224	-12.4417	-4.2019	-6.2344	1.5403e+00	8.7014e-01
95	PAN130224	-6.4099	-5.1129	-5.8728	3.2514e-01	8.7012e-01
96	PAN120312	-13.8017	-2.0524	-7.8233	2.6257e+00	8.7022e-01
97	PAN130312	-3.0458	1.3793	-1.2300	1.3947e+00	8.7001e-01
98	PAB000136	40.0908	40.5027	40.2491	9.5311e-02	5.8866e-01
99	PAB100136	43.7097	44.0759	43.8379	8.8706e-02	5.9026e-01
100	PAB125136	44.5284	44.8488	44.6493	7.3266e-02	5.9064e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9587	40.3249	40.1491	9.6023e-02	7.5669e-01
102	PRV000001	19.7186	19.8406	19.7820	6.1605e-02	7.5163e-01
103	PSR000001	44.0831	44.3273	44.2491	7.7046e-02	7.5811e-01
104	PFM000001	1.6409	1.9155	1.7910	6.6071e-02	5.0002e-01
105	PAN000136	-125.8406	-115.7698	-123.4053	2.8451e+00	4.9297e+00
106	PFM000002	1.7280	1.7951	1.7693	1.8633e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	-0.0022	3.4470e-03	0.0000e+00
108	EMPTY	-10.0000	-0.6934	-4.8784	1.4457e+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	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	131.9561	132.3468	132.1006	9.5112e-02	1.1333e+00
113	VPW000002	145.0346	145.4252	145.1127	1.0440e-01	1.1892e+00
114	VPW000003	117.8485	118.4345	118.1181	1.3021e-01	1.0763e+00
115	VPW000004	99.1849	99.5756	99.4389	1.1334e-01	1.0060e+00
116	VPW000005	108.2783	108.8642	108.5752	1.3229e-01	1.0395e+00
117	VPW000006	160.5131	161.0990	160.8061	1.1334e-01	1.2598e+00
118	IPW000001	1065.6793	1071.5363	1069.2720	1.4947e+00	1.1703e+01
119	IPW000002	791.5025	795.4050	792.5562	1.1295e+00	1.0238e+01
120	IPW000003	643.5375	651.3375	647.8274	1.4741e+00	9.5813e+00
121	IPW000004	529.8884	531.8415	530.7675	3.9459e-01	4.6456e+00
122	IPW000005	586.3765	588.3295	587.3435	5.5351e-01	5.0527e+00
123	IPW000006	426.1474	427.6123	426.8601	3.3029e-01	3.9207e+00
124	EMPTY	-0.0293	-0.0146	-0.0209	3.8257e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.9080e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0161	3.1583e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0177	3.1023e-03	0.0000e+00
128	IHT000001	125.7963	128.1400	127.1596	5.3451e-01	4.2927e+00
129	IHT000002	129.6687	131.6219	130.7352	4.8682e-01	4.3034e+00
130	IHT000003	129.7964	131.9449	130.9331	5.4346e-01	4.3040e+00
131	IHT000004	141.2072	143.3556	142.3204	4.9324e-01	4.3400e+00
132	IHT000005	139.2766	141.6203	140.4210	4.9286e-01	4.3338e+00
133	IHT000006	134.0557	136.3995	135.1690	4.7882e-01	4.3171e+00
134	IHT000007	128.4743	130.4274	129.3141	4.4512e-01	4.2991e+00
135	IHT000008	127.2536	129.0114	127.9332	4.1990e-01	4.2950e+00
136	IHT000009	127.5315	129.4847	128.5902	4.9299e-01	4.2969e+00
137	IHT000010	117.4955	119.8392	118.4486	5.7133e-01	4.2677e+00
138	IHT000011	115.5649	117.7134	116.5337	5.4954e-01	4.2624e+00
139	IHT000012	113.5930	115.7415	114.5422	5.5805e-01	4.2570e+00
140	IHT000013	92.8598	95.2036	93.7778	5.1183e-01	4.2059e+00
141	IHT000014	119.9181	121.8712	120.6329	4.5268e-01	4.2738e+00
142	IHT000015	96.8149	99.1587	97.6821	4.7541e-01	4.2148e+00
143	IHT000016	86.0239	87.7817	86.6802	4.6145e-01	4.1906e+00
144	IHT000017	103.3954	106.5204	105.2431	7.6025e-01	4.2329e+00
145	IHT000018	106.0322	108.5712	107.0400	5.3577e-01	4.2374e+00
146	IHT000019	113.3714	115.9105	114.4027	4.9448e-01	4.2566e+00
147	IHT000020	116.7818	119.5162	117.7779	5.3561e-01	4.2658e+00
148	IHT000021	-2.6330	0.1014	-1.3127	5.9131e-01	4.1000e+00
149	IHT000022	96.3980	98.7418	97.4644	4.7056e-01	4.2143e+00
150	IHT000023	114.4456	116.7894	115.4339	4.7745e-01	4.2594e+00
151	IHT000024	80.2772	82.6209	81.2615	4.5156e-01	4.1798e+00
152	IHT000025	102.7381	104.6913	103.5897	4.7803e-01	4.2288e+00
153	IHT000026	103.7109	106.2500	104.8008	5.1914e-01	4.2318e+00
154	IHT000027	86.8502	88.9987	88.0298	4.6682e-01	4.1934e+00
155	IHT000028	88.4240	90.7677	89.4396	5.5102e-01	4.1964e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.4443	105.9833	104.6045	5.9374e-01	4.2313e+00
157	IHT000030	105.8143	108.3533	106.8690	5.8793e-01	4.2370e+00
158	IHT000031	94.5688	97.3032	95.7602	5.9353e-01	4.2103e+00
159	IHT000032	95.5980	98.5276	96.8284	6.0522e-01	4.2128e+00
160	IHT000033	95.5829	98.5126	96.7588	6.0681e-01	4.2126e+00
161	IHT000034	87.8568	90.0053	88.9584	4.5465e-01	4.1954e+00
162	IHT000035	116.0119	118.3556	117.0236	4.9077e-01	4.2637e+00
163	IHT000036	86.7525	88.7057	87.7134	4.6159e-01	4.1928e+00

Velocity 1 = 3.4948 (ft/sec) (+/- 14.0018 %)
Velocity 2 = 3.4382 (ft/sec) (+/- 5.4385 %)
Pressure drop = -4.2937 (psi)
Tsats in = 268.0137 (deg F) Tsats out = 274.0302 (deg F)
Phi inner = 99.1543 (kBtu/hr-ft2) (+/- 1.5819 %)
Phi outer = 101.4758 (kBtu/hr-ft2) (+/- 1.4788 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.3337	79.3966	78.7632	2.2105e-01	1.9001e+00
1	TRF000002	78.8448	79.2677	79.1366	1.1212e-01	1.9001e+00
2	TFM000001	87.9713	88.8110	88.4917	1.9083e-01	1.9002e+00
3	TIN000001	87.4217	88.0536	87.7543	1.4641e-01	1.9002e+00
4	TRV000001	88.4502	89.4984	88.9527	2.3083e-01	1.9002e+00
5	TSR000001	131.1794	133.3016	132.4927	5.1926e-01	1.9026e+00
6	TAO020136	63.9084	65.3025	64.7106	3.3716e-01	1.9000e+00
7	TAO050136	215.7760	217.8644	216.7248	4.0565e-01	1.9144e+00
8	TAO070136	212.6789	215.3681	213.9011	5.0072e-01	1.9139e+00
9	TAO080136	251.0475	251.8857	251.3571	1.8775e-01	1.9220e+00
10	TAO090136	261.5153	262.7205	262.1938	3.1186e-01	1.9247e+00
11	TAO100136	262.2568	264.8504	263.1798	5.2848e-01	1.9250e+00
12	TAO105136	267.5276	270.7679	268.9170	7.7247e-01	1.9265e+00
13	TAO110136	277.4229	280.4336	278.8018	7.0993e-01	1.9291e+00
14	TAO115136	274.6570	277.6993	275.9223	8.1249e-01	1.9284e+00
15	TAO120136	286.0542	288.2513	287.0469	5.2567e-01	1.9315e+00
16	TAO125136	155.1004	158.4779	156.6072	6.4983e-01	1.9050e+00
17	TAO130136	288.3414	293.2044	291.4913	1.2571e+00	1.9328e+00
18	TAO120048	109.2784	110.5177	109.8440	3.0658e-01	1.9011e+00
19	TAO130048	341.0567	342.8317	341.8683	4.1854e-01	1.9492e+00
20	TAO120224	249.7887	251.3776	250.6001	3.9928e-01	1.9218e+00
21	TAO130224	244.6269	246.3008	245.3864	3.8138e-01	1.9206e+00
22	TAO120312	256.8682	260.8723	258.2475	9.5348e-01	1.9237e+00
23	TAO130312	264.5686	275.2566	269.2929	2.4003e+00	1.9266e+00
24	TRT020000	191.3125	192.9679	192.1775	3.2182e-01	1.9100e+00
25	TRT070000	231.1427	232.8551	231.8813	3.9933e-01	1.9176e+00
26	TRT100000	265.3859	267.5095	266.4389	5.4923e-01	1.9258e+00
27	TRT120000	281.6290	304.9469	289.1219	6.6166e+00	1.9321e+00
28	TRT125000	99.3864	100.2177	99.7681	1.9246e-01	1.9006e+00
29	TRT130000	294.5794	296.1234	295.2475	3.0385e-01	1.9339e+00
30	EMPTY	39.3761	40.0646	39.7020	2.2282e-01	1.9011e+00
31	TAF050136	147.0807	150.8712	148.8051	7.2238e-01	1.9042e+00
32	TAF070136	171.0815	173.0407	172.1871	4.4690e-01	1.9070e+00
33	TAF080136	243.7030	248.6290	246.3837	1.1048e+00	1.9208e+00
34	TAF090136	93.5573	94.9163	94.4101	2.8723e-01	1.9004e+00
35	TAF100136	214.3181	219.4843	216.2335	1.1936e+00	1.9144e+00
36	TAF105136	220.2813	224.9967	222.3040	1.0017e+00	1.9156e+00
37	TAF110136	226.5418	231.0704	228.3589	8.6426e-01	1.9168e+00
38	TAF115136	232.3732	235.1036	233.6159	6.0898e-01	1.9179e+00
39	TAF120136	267.5515	272.1494	269.3652	1.1917e+00	1.9266e+00
40	TAF125136	249.7222	274.5768	258.2113	7.5677e+00	1.9237e+00
41	TAF130136	265.5648	274.2274	272.4011	2.2033e+00	1.9274e+00
42	TAF120048	274.7555	275.6819	275.2113	2.0495e-01	1.9282e+00
43	TAF130048	274.0774	274.6321	274.3985	1.1553e-01	1.9279e+00
44	TAF120224	213.7242	215.2503	214.4069	3.7329e-01	1.9140e+00
45	TAF130224	221.0201	224.9369	222.5799	9.3156e-01	1.9156e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1537	1.9946e-01	1.9010e+00
47	EMPTY	39.6057	40.5234	39.9912	2.3380e-01	1.9011e+00
48	TAI130048	279.0690	280.4479	279.8408	3.7137e-01	1.9294e+00
49	TAI130136	289.6371	294.5497	292.4393	1.1705e+00	1.9330e+00
50	TAI130224	268.8346	279.9212	274.6066	2.5967e+00	1.9280e+00
51	TAI130312	246.8764	248.2835	247.6679	3.3141e-01	1.9211e+00
52	TRR130000	114.2333	115.4648	114.7379	2.8217e-01	1.9013e+00
53	TSI000001	68.5793	69.6439	69.0948	2.0354e-01	1.9000e+00
54	TSI000002	85.3550	87.7644	86.3308	5.6357e-01	1.9002e+00
55	TSO000001	67.9309	69.0021	68.4366	2.2077e-01	1.9000e+00
56	TSO000002	84.4111	85.3594	84.7611	2.4410e-01	1.9001e+00
57	TAF020136	107.6006	109.2637	108.4783	3.8503e-01	1.9010e+00
58	TAF120312	222.2124	236.6942	226.1714	3.1182e+00	1.9164e+00
59	TAF130312	241.7984	272.8346	255.1154	7.3076e+00	1.9229e+00
60	EMPTY	4.3164	4.7949	4.5294	1.1782e-01	0.0000e+00
61	EMPTY	4.3408	4.6533	4.5122	8.8268e-02	0.0000e+00
62	EMPTY	4.3506	4.5752	4.4915	6.7550e-02	0.0000e+00
63	EMPTY	4.3750	4.5410	4.4775	5.1202e-02	0.0000e+00
64	EMPTY	2.0850	2.1484	2.1235	2.1369e-02	0.0000e+00
65	EMPTY	2.0996	2.1631	2.1342	1.9552e-02	0.0000e+00
66	EMPTY	2.1094	2.1631	2.1396	1.7583e-02	0.0000e+00
67	EMPTY	2.1191	2.1729	2.1475	1.5691e-02	0.0000e+00
68	EMPTY	2.1289	2.1729	2.1512	1.3816e-02	0.0000e+00
69	EMPTY	2.1387	2.1826	2.1594	1.2024e-02	0.0000e+00
70	EMPTY	2.1484	2.1826	2.1643	1.0039e-02	0.0000e+00
71	EMPTY	2.1631	2.1924	2.1782	8.4429e-03	0.0000e+00
72	EMPTY	2.1680	2.1924	2.1821	6.7809e-03	0.0000e+00
73	EMPTY	2.1826	2.2070	2.1928	6.4567e-03	0.0000e+00
74	EMPTY	2.1924	2.2070	2.1995	5.3315e-03	0.0000e+00
75	EMPTY	2.2021	2.2168	2.2085	4.4391e-03	0.0000e+00
76	EMPTY	2.2070	2.2217	2.2145	4.3270e-03	0.0000e+00
77	EMPTY	2.2217	2.2314	2.2252	3.8257e-03	0.0000e+00
78	EMPTY	2.2363	2.2461	2.2388	3.4527e-03	0.0000e+00
79	EMPTY	2.2510	2.2656	2.2553	4.3718e-03	0.0000e+00
80	PAN020136	-16.7758	-16.3943	-16.6079	8.5820e-02	8.7099e-01
81	PAN050136	-34.2892	-31.2374	-33.0776	9.6918e-01	1.6820e+00
82	PAN070136	-20.6108	-17.4828	-18.7370	1.0037e+00	8.7126e-01
83	PAN080136	-13.9558	-8.0812	-13.3653	1.2183e+00	8.7064e-01
84	PAN090136	-13.1753	-2.1889	-8.9913	2.8065e+00	8.7029e-01
85	PAN100136	-12.1908	-5.7058	-8.6263	1.5863e+00	8.7027e-01
86	PAN105136	-6.5576	-1.9037	-4.2794	9.2841e-01	8.7007e-01
87	PAN110136	-5.3911	-2.6445	-4.4832	5.6597e-01	8.7007e-01
88	PAN115136	-5.3471	-3.1346	-4.5140	4.9127e-01	8.7007e-01
89	PAN120136	-4.0017	-1.3314	-3.0114	6.3785e-01	8.7003e-01
90	PAN125136	-3.5909	-0.3103	-2.1077	7.8974e-01	8.7002e-01
91	PAN130136	0.1050	1.0206	0.6300	2.4010e-01	8.7000e-01
92	PAN120048	-5.0866	0.2540	-2.3019	1.2394e+00	8.7002e-01
93	PAN130048	0.0237	0.9392	0.2022	2.0015e-01	8.7000e-01
94	PAN120224	-12.4417	-4.2782	-5.9323	1.9459e+00	8.7013e-01
95	PAN130224	-5.4944	-3.6634	-4.7681	4.4413e-01	8.7008e-01
96	PAN120312	-13.1913	-3.3494	-4.9867	1.4049e+00	8.7009e-01
97	PAN130312	-0.5281	1.5318	0.5400	4.7782e-01	8.7000e-01
98	PAB000136	40.3196	40.6401	40.4350	5.3320e-02	5.8874e-01
99	PAB100136	43.8928	44.0759	43.9578	4.1452e-02	5.9032e-01
100	PAB125136	44.6200	44.8031	44.6923	4.4440e-02	5.9066e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2028	40.6911	40.4079	1.2919e-01	7.5677e-01
102	PRV000001	19.7186	19.8406	19.7601	5.8413e-02	7.5163e-01
103	PSR000001	44.2052	44.3273	44.2784	6.0409e-02	7.5813e-01
104	PFM000001	1.6409	1.9155	1.7984	7.6352e-02	5.0002e-01
105	PAN000136	-120.3475	-117.1431	-118.8735	6.9386e-01	4.9290e+00
106	PFM000002	1.6944	1.7951	1.7391	3.0437e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	0.0004	4.2818e-03	0.0000e+00
108	EMPTY	-8.3252	-1.3281	-4.4209	1.2145e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0011	2.2689e-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	131.9561	132.3468	132.1280	1.2871e-01	1.1334e+00
113	VPW000002	144.6440	145.0346	144.9213	1.0507e-01	1.1884e+00
114	VPW000003	117.8485	118.6298	118.2431	1.8713e-01	1.0768e+00
115	VPW000004	99.1849	99.7709	99.4194	1.3087e-01	1.0059e+00
116	VPW000005	108.4736	108.8642	108.6259	9.8963e-02	1.0397e+00
117	VPW000006	160.7084	161.0990	160.8686	1.1632e-01	1.2601e+00
118	IPW000001	1063.7269	1071.5363	1067.7488	2.0650e+00	1.1695e+01
119	IPW000002	787.5999	795.4050	790.4487	2.0182e+00	1.0228e+01
120	IPW000003	649.3875	659.1375	653.9893	3.1210e+00	9.6074e+00
121	IPW000004	534.2829	535.7477	535.1229	3.9508e-01	4.6767e+00
122	IPW000005	589.3060	592.2354	590.7612	7.4135e-01	5.0775e+00
123	IPW000006	425.6591	428.1006	426.9187	5.0388e-01	3.9211e+00
124	EMPTY	-0.0293	-0.0098	-0.0185	4.2188e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0123	2.9986e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0149	3.8725e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0162	3.0309e-03	0.0000e+00
128	IHT000001	125.9916	128.1400	127.1948	5.0434e-01	4.2928e+00
129	IHT000002	129.8640	131.8172	130.7860	5.3093e-01	4.3035e+00
130	IHT000003	129.7964	131.9449	130.9605	5.3664e-01	4.3041e+00
131	IHT000004	141.4025	143.7462	142.5900	5.4511e-01	4.3409e+00
132	IHT000005	139.4719	141.8157	140.6515	5.0526e-01	4.3345e+00
133	IHT000006	134.2511	136.5948	135.4190	5.2570e-01	4.3179e+00
134	IHT000007	128.0837	130.4274	129.3532	5.4569e-01	4.2992e+00
135	IHT000008	126.6677	129.2067	127.9957	5.3525e-01	4.2951e+00
136	IHT000009	127.3362	129.6800	128.5355	5.2201e-01	4.2968e+00
137	IHT000010	117.4955	119.6439	118.5111	5.2645e-01	4.2678e+00
138	IHT000011	115.5649	117.7134	116.5532	4.9349e-01	4.2624e+00
139	IHT000012	113.5930	115.7415	114.5578	5.1661e-01	4.2570e+00
140	IHT000013	92.8598	95.3989	93.9184	5.3392e-01	4.2062e+00
141	IHT000014	119.7228	122.0666	120.6954	5.4461e-01	4.2740e+00
142	IHT000015	96.8149	99.1587	97.7798	5.1661e-01	4.2150e+00
143	IHT000016	85.8286	88.3676	86.6645	5.2205e-01	4.1906e+00
144	IHT000017	103.9814	108.0829	105.9033	7.7158e-01	4.2346e+00
145	IHT000018	106.2275	108.7665	107.1338	6.5049e-01	4.2377e+00
146	IHT000019	113.3714	115.9105	114.4300	5.0546e-01	4.2567e+00
147	IHT000020	116.7818	119.1256	117.8130	4.9918e-01	4.2659e+00
148	IHT000021	-2.2424	0.4920	-1.2267	5.5943e-01	4.1000e+00
149	IHT000022	96.7886	98.9371	97.5738	4.5930e-01	4.2145e+00
150	IHT000023	114.4456	116.9847	115.5394	4.6354e-01	4.2597e+00
151	IHT000024	80.4725	82.4256	81.3162	4.3124e-01	4.1799e+00
152	IHT000025	102.9334	104.8866	103.8280	4.1590e-01	4.2294e+00
153	IHT000026	103.9063	106.0547	104.9766	4.1804e-01	4.2323e+00
154	IHT000027	87.0455	88.9987	88.0533	3.7301e-01	4.1935e+00
155	IHT000028	88.0334	90.9631	89.4357	6.0578e-01	4.1964e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.2490	106.1786	104.7216	6.0517e-01	4.2316e+00
157	IHT000030	105.8143	108.5487	106.9510	6.0062e-01	4.2372e+00
158	IHT000031	94.7641	97.3032	95.8110	5.6739e-01	4.2105e+00
159	IHT000032	95.7933	98.3323	96.8714	5.9744e-01	4.2129e+00
160	IHT000033	95.7782	98.3173	96.8369	5.8139e-01	4.2128e+00
161	IHT000034	88.2474	90.2006	88.9311	5.1486e-01	4.1953e+00
162	IHT000035	116.2072	118.3556	117.0001	5.1359e-01	4.2637e+00
163	IHT000036	86.9479	88.7057	87.6509	4.8648e-01	4.1926e+00

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Velocity 1 = 0.007000 (ft/sec)

Velocity 2 = 0.028900 (ft/sec)

Pressure Drop = 0.163700 (psi)

Tsat in = 0.274811 (deg F) Tsat out = 0.058411 (deg F)

Phi inner = 0.206001 (kBtu/hr-ft2) Phi outer = 0.533699 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1446	0.1839
1	TRF000002	0.1142	0.1445
2	TFM000001	0.2625	0.2975
3	TIN000001	0.2462	0.2813
4	TRV000001	0.3205	0.3616
5	TSR000001	2.0632	1.5819
6	TAO020136	0.0194	0.0300
7	TAO050136	1.0476	0.4857
8	TAO070136	3.6171	1.6629
9	TAO080136	0.5118	0.2040
10	TAO090136	0.9248	0.3540
11	TAO100136	2.1188	0.8116
12	TAO105136	2.1555	0.8080
13	TAO110136	1.1344	0.4085
14	TAO115136	0.6596	0.2396
15	TAO120136	0.7362	0.2558
16	TAO125136	0.2133	0.1364
17	TAO130136	0.1143	0.0392
18	TAO120048	2.7476	2.5655
19	TAO130048	24.4746	7.7111
20	TAO120224	0.1762	0.0703
21	TAO130224	0.1788	0.0729
22	TAO120312	10.5168	3.9130
23	TAO130312	3.9873	1.4591
24	TRT020000	0.3019	0.1573
25	TRT070000	0.0134	0.0058
26	TRT100000	1.5690	0.5924
27	TRT120000	10.3609	3.7168
28	TRT125000	3.9225	4.0925
29	TRT130000	1.7139	0.5839
30	EMPTY	0.0460	0.1157
31	TAF050136	0.3899	0.2627
32	TAF070136	0.6964	0.4061
33	TAF080136	1.5434	0.6304
34	TAF090136	2.4667	2.6829
35	TAF100136	3.7871	1.7826
36	TAF105136	4.7841	2.1994
37	TAF110136	3.8304	1.7060
38	TAF115136	2.1024	0.9081
39	TAF120136	0.0802	0.0298
40	TAF125136	2.0517	0.8009
41	TAF130136	0.3697	0.1355
42	TAF120048	13.0021	4.9587
43	TAF130048	0.0208	0.0076
44	TAF120224	0.6634	0.3104
45	TAF130224	0.4694	0.2113

#	Name	Abs Diff	%Diff
46	EMPTY	0.0183	0.0480
47	EMPTY	0.0275	0.0687
48	TAI130048	0.3613	0.1289
49	TAI130136	0.1681	0.0574
50	TAI130224	3.2421	1.1947
51	TAI130312	0.7250	0.2919
52	TRR130000	0.3484	0.3027
53	TSI000001	0.1077	0.1556
54	TSI000002	1.0008	1.1729
55	TSO000001	0.0067	0.0098
56	TSO000002	0.0235	0.0277
57	TAF020136	0.1306	0.1205
58	TAF120312	6.2293	2.6804
59	TAF130312	0.1986	0.0779
60	EMPTY	0.0271	0.5948
61	EMPTY	0.0606	1.3252
62	EMPTY	0.0930	2.0286
63	EMPTY	0.1250	2.7159
64	EMPTY	0.0639	2.9213
65	EMPTY	0.0734	3.3249
66	EMPTY	0.0817	3.6780
67	EMPTY	0.0892	3.9880
68	EMPTY	0.0964	4.2890
69	EMPTY	0.1018	4.5020
70	EMPTY	0.1066	4.6942
71	EMPTY	0.1099	4.8031
72	EMPTY	0.1137	4.9525
73	EMPTY	0.1155	5.0037
74	EMPTY	0.1167	5.0384
75	EMPTY	0.1170	5.0312
76	EMPTY	0.1164	4.9938
77	EMPTY	0.1155	4.9344
78	EMPTY	0.1141	4.8493
79	EMPTY	0.1104	4.6667
80	PAN020136	0.1282	0.7779
81	PAN050136	0.0702	0.2127
82	PAN070136	0.1221	0.6474
83	PAN080136	0.4577	3.3111
84	PAN090136	1.0453	10.4149
85	PAN100136	1.2573	17.0620
86	PAN105136	0.1771	3.9740
87	PAN110136	0.4272	10.5325
88	PAN115136	1.2726	21.9922
89	PAN120136	0.3936	11.5595
90	PAN125136	0.6180	22.6731
91	PAN130136	0.4288	213.1213
92	PAN120048	6.7672	74.6182
93	PAN130048	0.1617	44.4353
94	PAN120224	0.3021	4.8457
95	PAN130224	1.1047	18.8104
96	PAN120312	2.8366	36.2584
97	PAN130312	1.7700	143.9024
98	PAB000136	0.1859	0.4619
99	PAB100136	0.1199	0.2735
100	PAB125136	0.0430	0.0963

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2588	0.6446
102	PRV000001	0.0219	0.1107
103	PSR000001	0.0293	0.0662
104	PFM000001	0.0074	0.4132
105	PAN000136	4.5318	3.6723
106	PFM000002	0.0302	1.7069
107	EMPTY	0.0026	118.1818
108	EMPTY	0.4575	9.3781
109	EMPTY	0.0008	266.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0274	0.0207
113	VPW000002	0.1914	0.1319
114	VPW000003	0.1250	0.1058
115	VPW000004	0.0195	0.0196
116	VPW000005	0.0507	0.0467
117	VPW000006	0.0625	0.0389
118	IPW000001	1.5232	0.1425
119	IPW000002	2.1075	0.2659
120	IPW000003	6.1619	0.9512
121	IPW000004	4.3554	0.8206
122	IPW000005	3.4177	0.5819
123	IPW000006	0.0586	0.0137
124	EMPTY	0.0024	11.4833
125	EMPTY	0.0015	10.8696
126	EMPTY	0.0012	7.4534
127	EMPTY	0.0015	8.4746
128	IHT000001	0.0352	0.0277
129	IHT000002	0.0508	0.0389
130	IHT000003	0.0274	0.0209
131	IHT000004	0.2696	0.1894
132	IHT000005	0.2305	0.1641
133	IHT000006	0.2500	0.1850
134	IHT000007	0.0391	0.0302
135	IHT000008	0.0625	0.0489
136	IHT000009	0.0547	0.0425
137	IHT000010	0.0625	0.0528
138	IHT000011	0.0195	0.0167
139	IHT000012	0.0156	0.0136
140	IHT000013	0.1406	0.1499
141	IHT000014	0.0625	0.0518
142	IHT000015	0.0977	0.1000
143	IHT000016	0.0157	0.0181
144	IHT000017	0.6602	0.6273
145	IHT000018	0.0938	0.0876
146	IHT000019	0.0273	0.0239
147	IHT000020	0.0351	0.0298
148	IHT000021	0.0860	6.5514
149	IHT000022	0.1094	0.1122
150	IHT000023	0.1055	0.0914
151	IHT000024	0.0547	0.0673
152	IHT000025	0.2383	0.2300
153	IHT000026	0.1758	0.1678
154	IHT000027	0.0235	0.0267
155	IHT000028	0.0039	0.0044

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1171	0.1119
157	IHT000030	0.0820	0.0767
158	IHT000031	0.0508	0.0530
159	IHT000032	0.0430	0.0444
160	IHT000033	0.0781	0.0807
161	IHT000034	0.0273	0.0307
162	IHT000035	0.0235	0.0201
163	IHT000036	0.0625	0.0713

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Velocity 1 = 3.7277 (ft/sec) (+/- 12.2923 %)

Velocity 2 = 3.7229 (ft/sec) (+/- 4.7028 %)

Pressure drop = -4.7256 (psi)

Tsats in = 267.6125 (deg F) Tsats out = 273.9582 (deg F)

Phi inner = 99.6911 (kBtu/hr-ft2) (+/- 1.5772 %)

Phi outer = 101.4691 (kBtu/hr-ft2) (+/- 1.4777 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.7589	79.1841	79.0480	1.4726e-01	1.9001e+00
1	TRF000002	79.2677	79.6904	79.4156	1.3672e-01	1.9001e+00
2	TFM000001	87.7630	88.4968	88.1469	1.7418e-01	1.9002e+00
3	TIN000001	86.8965	87.7381	87.4329	1.5072e-01	1.9002e+00
4	TRV000001	88.1386	88.8723	88.4846	1.9182e-01	1.9002e+00
5	TSR000001	128.9585	129.9712	129.4381	2.6094e-01	1.9024e+00
6	TAO020136	64.4444	65.5168	64.9916	2.8912e-01	1.9000e+00
7	TAO050136	208.8256	210.3538	209.5309	3.5619e-01	1.9131e+00
8	TAO070136	206.8031	208.5390	207.6731	4.4365e-01	1.9127e+00
9	TAO080136	245.0033	245.8429	245.4458	1.6328e-01	1.9206e+00
10	TAO090136	255.8588	257.0666	256.4213	2.6590e-01	1.9233e+00
11	TAO100136	255.7595	257.7127	256.7924	4.1848e-01	1.9234e+00
12	TAO105136	262.5176	264.1898	263.2816	3.0335e-01	1.9250e+00
13	TAO110136	272.4016	273.7763	273.1518	3.0154e-01	1.9276e+00
14	TAO115136	268.0043	269.3003	268.6912	3.2715e-01	1.9264e+00
15	TAO120136	280.7372	281.6548	281.1757	1.9220e-01	1.9298e+00
16	TAO125136	151.3189	152.3164	151.8197	2.3889e-01	1.9045e+00
17	TAO130136	274.6858	275.5967	275.0414	2.2532e-01	1.9281e+00
18	TAO120048	109.7946	110.7234	110.2674	3.0038e-01	1.9011e+00
19	TAO130048	259.5746	260.1312	259.8618	1.4291e-01	1.9241e+00
20	TAO120224	262.3569	263.9335	263.0642	3.6273e-01	1.9249e+00
21	TAO130224	251.3978	253.4341	252.1591	4.0158e-01	1.9222e+00
22	TAO120312	248.9258	250.6114	249.6885	3.7837e-01	1.9216e+00
23	TAO130312	245.0501	245.8932	245.5505	1.6234e-01	1.9206e+00
24	TRT020000	185.2599	186.3354	185.7428	2.6534e-01	1.9090e+00
25	TRT070000	218.6196	219.8655	219.2121	2.6249e-01	1.9149e+00
26	TRT100000	242.2329	243.1696	242.6127	1.9340e-01	1.9200e+00
27	TRT120000	253.2599	254.5647	253.8471	3.2176e-01	1.9226e+00
28	TRT125000	96.5959	97.4265	97.0467	1.8246e-01	1.9005e+00
29	TRT130000	246.5791	247.4215	247.0604	1.6918e-01	1.9210e+00
30	EMPTY	39.3761	40.2940	39.8076	2.2062e-01	1.9011e+00
31	TAF050136	142.2803	144.4846	143.7372	4.8343e-01	1.9037e+00
32	TAF070136	164.9000	166.4748	165.6895	3.7015e-01	1.9062e+00
33	TAF080136	238.1070	241.4692	240.0895	7.2957e-01	1.9194e+00
34	TAF090136	91.6786	92.8292	92.2877	2.8941e-01	1.9003e+00
35	TAF100136	200.5520	206.8251	203.0190	1.5310e+00	1.9119e+00
36	TAF105136	206.0527	211.5698	208.1099	1.3459e+00	1.9128e+00
37	TAF110136	212.4068	217.3546	213.6237	9.0365e-01	1.9138e+00
38	TAF115136	218.7404	221.2122	220.0320	4.9699e-01	1.9151e+00
39	TAF120136	261.7411	264.3275	262.8703	5.5569e-01	1.9249e+00
40	TAF125136	231.8211	233.8822	232.8013	4.7879e-01	1.9178e+00
41	TAF130136	235.8318	237.5250	236.4848	4.1543e-01	1.9186e+00
42	TAF120048	211.5257	216.1470	213.4773	7.4955e-01	1.9138e+00
43	TAF130048	220.3891	222.0067	221.2820	4.0056e-01	1.9154e+00
44	TAF120224	209.1339	214.4887	210.9503	1.3829e+00	1.9133e+00
45	TAF130224	217.2847	219.0098	218.1912	3.7499e-01	1.9147e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1767	1.8747e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.8857	1.2517e-01	1.9011e+00
48	TAI130048	260.9650	262.9144	261.7802	3.9033e-01	1.9246e+00
49	TAI130136	278.2189	279.4113	278.8810	2.6670e-01	1.9292e+00
50	TAI130224	248.0402	249.3529	248.6987	3.2739e-01	1.9214e+00
51	TAI130312	252.4002	254.0818	253.3999	3.3460e-01	1.9225e+00
52	TRR130000	109.9315	111.0609	110.4958	2.9661e-01	1.9011e+00
53	TSI000001	68.6877	69.8581	69.0815	2.0656e-01	1.9000e+00
54	TSI000002	81.3635	83.8871	82.5059	5.6900e-01	1.9001e+00
55	TSO000001	68.0377	69.0011	68.4639	2.0119e-01	1.9000e+00
56	TSO000002	81.8818	82.6212	82.2770	1.9873e-01	1.9001e+00
57	TAF020136	105.6206	107.4958	106.6854	3.6389e-01	1.9009e+00
58	TAF120312	198.3491	201.7276	199.8502	7.6106e-01	1.9113e+00
59	TAF130312	214.5543	216.9390	215.9338	4.6703e-01	1.9143e+00
60	EMPTY	3.4912	3.5156	3.5073	4.6532e-03	0.0000e+00
61	EMPTY	3.4912	3.5010	3.4967	3.5072e-03	0.0000e+00
62	EMPTY	3.4814	3.4912	3.4850	2.9660e-03	0.0000e+00
63	EMPTY	3.4766	3.4863	3.4810	2.4662e-03	0.0000e+00
64	EMPTY	1.6797	1.6846	1.6836	1.9730e-03	0.0000e+00
65	EMPTY	1.6895	1.7041	1.6984	2.2839e-03	0.0000e+00
66	EMPTY	1.7041	1.7090	1.7080	1.9730e-03	0.0000e+00
67	EMPTY	1.7139	1.7236	1.7202	2.8334e-03	0.0000e+00
68	EMPTY	1.7188	1.7334	1.7272	2.7568e-03	0.0000e+00
69	EMPTY	1.7334	1.7432	1.7386	3.0261e-03	0.0000e+00
70	EMPTY	1.7383	1.7529	1.7470	2.8403e-03	0.0000e+00
71	EMPTY	1.7529	1.7676	1.7630	3.8725e-03	0.0000e+00
72	EMPTY	1.7627	1.7773	1.7704	3.5691e-03	0.0000e+00
73	EMPTY	1.7773	1.7871	1.7841	4.0542e-03	0.0000e+00
74	EMPTY	1.7822	1.7969	1.7934	4.3045e-03	0.0000e+00
75	EMPTY	1.7969	1.8115	1.8038	3.8321e-03	0.0000e+00
76	EMPTY	1.8018	1.8164	1.8120	4.2142e-03	0.0000e+00
77	EMPTY	1.8164	1.8311	1.8254	3.9901e-03	0.0000e+00
78	EMPTY	1.8359	1.8457	1.8410	3.9410e-03	0.0000e+00
79	EMPTY	1.8555	1.8604	1.8579	2.4662e-03	0.0000e+00
80	PAN020136	-16.3943	-16.0891	-16.2631	8.7248e-02	8.7095e-01
81	PAN050136	-33.0685	-30.0167	-32.1804	6.3454e-01	1.6819e+00
82	PAN070136	-21.6026	-18.6272	-19.4359	6.8967e-01	8.7136e-01
83	PAN080136	-13.8795	-10.9803	-13.5881	7.0241e-01	8.7066e-01
84	PAN090136	-13.0990	-0.5868	-8.8906	2.7667e+00	8.7028e-01
85	PAN100136	-12.1908	-4.1799	-9.3862	1.9880e+00	8.7032e-01
86	PAN105136	-7.6257	-0.2252	-4.5419	1.4180e+00	8.7007e-01
87	PAN110136	-7.2222	-3.1023	-4.3550	1.0180e+00	8.7007e-01
88	PAN115136	-5.8049	-3.1346	-4.6223	5.7904e-01	8.7008e-01
89	PAN120136	-5.5275	-3.5439	-4.4854	3.9587e-01	8.7007e-01
90	PAN125136	-4.6590	-2.4465	-4.0807	4.2130e-01	8.7006e-01
91	PAN130136	-5.8459	-4.7778	-5.3103	2.2363e-01	8.7010e-01
92	PAN120048	-11.6479	-7.9858	-10.4623	7.8689e-01	8.7039e-01
93	PAN130048	-10.2760	-7.9109	-9.2933	5.1437e-01	8.7031e-01
94	PAN120224	-12.3654	-7.7115	-9.1778	1.0277e+00	8.7030e-01
95	PAN130224	-11.6742	-8.5462	-9.5822	6.1076e-01	8.7033e-01
96	PAN120312	-13.7254	-3.2731	-9.2851	1.6307e+00	8.7031e-01
97	PAN130312	-14.0321	-7.8523	-9.4209	9.4993e-01	8.7032e-01
98	PAB000136	40.0450	40.2281	40.1640	5.6255e-02	5.8863e-01
99	PAB100136	43.5266	43.8471	43.7445	7.3149e-02	5.9022e-01
100	PAB125136	44.5284	44.7115	44.6392	4.5392e-02	5.9064e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.0808	40.4470	40.2444	9.0982e-02	7.5672e-01
102	PRV0000001	19.5965	19.8406	19.7137	3.4527e-02	7.5162e-01
103	PSR0000001	44.5714	44.9376	44.7887	6.1852e-02	7.5831e-01
104	PFM0000001	1.9155	2.1902	2.0529	6.2039e-02	5.0003e-01
105	PAN000136	-132.2493	-129.9605	-130.8302	6.6207e-01	4.9309e+00
106	PFM0000002	2.0300	2.0804	2.0475	1.5145e-02	2.0007e-01
107	EMPTY	-0.0049	0.0049	-0.0011	3.7291e-03	0.0000e+00
108	EMPTY	-10.0000	-0.5078	-4.8985	1.3474e+00	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	-0.0004	1.3381e-03	0.0000e+00
112	VPW0000001	131.7608	132.3468	132.1319	1.2633e-01	1.1334e+00
113	VPW0000002	144.6440	145.2299	144.9370	1.1334e-01	1.1884e+00
114	VPW0000003	117.8485	118.4345	118.2119	1.5288e-01	1.0766e+00
115	VPW0000004	99.1849	99.7709	99.4624	1.2534e-01	1.0061e+00
116	VPW0000005	108.2783	108.8642	108.5673	1.1327e-01	1.0394e+00
117	VPW0000006	160.5131	160.9037	160.7475	1.3087e-01	1.2595e+00
118	IPW0000001	1057.8699	1063.7269	1061.1495	1.3912e+00	1.1657e+01
119	IPW0000002	799.3076	805.1614	801.7274	1.4517e+00	1.0282e+01
120	IPW0000003	661.0875	666.9375	664.4807	1.1010e+00	9.6523e+00
121	IPW0000004	527.9352	529.4001	528.5897	3.0581e-01	4.6301e+00
122	IPW0000005	590.2824	591.7471	590.7710	3.4169e-01	5.0776e+00
123	IPW0000006	426.1474	427.6123	426.5476	3.9075e-01	3.9186e+00
124	EMPTY	-0.0244	-0.0146	-0.0192	3.4751e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0049	-0.0131	3.0309e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0145	3.5513e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.4793e-03	0.0000e+00
128	IHT0000001	125.9916	129.1166	127.4799	6.5541e-01	4.2936e+00
129	IHT0000002	129.6687	132.4031	131.1024	6.0310e-01	4.3045e+00
130	IHT0000003	129.9917	132.7261	131.2066	5.8299e-01	4.3048e+00
131	IHT0000004	141.4025	144.3322	142.6564	5.9724e-01	4.3411e+00
132	IHT0000005	139.6672	142.4016	140.7492	5.9085e-01	4.3349e+00
133	IHT0000006	134.2511	137.1807	135.4112	5.7914e-01	4.3178e+00
134	IHT0000007	128.4743	131.2087	129.5055	5.8132e-01	4.2997e+00
135	IHT0000008	127.2536	129.5973	128.1403	5.4706e-01	4.2956e+00
136	IHT0000009	127.7268	130.2659	128.7738	6.1354e-01	4.2975e+00
137	IHT0000010	117.6908	120.4252	118.5697	5.7757e-01	4.2680e+00
138	IHT0000011	115.7602	118.4946	116.6899	5.4471e-01	4.2628e+00
139	IHT0000012	113.7883	116.3274	114.7140	5.3205e-01	4.2575e+00
140	IHT0000013	92.8598	95.5942	93.9184	5.2806e-01	4.2062e+00
141	IHT0000014	120.1134	122.4572	120.9025	4.7180e-01	4.2745e+00
142	IHT0000015	96.8149	99.5493	97.8149	5.0937e-01	4.2151e+00
143	IHT0000016	85.6333	88.5630	86.8208	5.4796e-01	4.1909e+00
144	IHT0000017	104.3720	107.4970	106.2666	6.8487e-01	4.2355e+00
145	IHT0000018	105.8369	109.1572	107.3447	7.1784e-01	4.2382e+00
146	IHT0000019	113.7620	115.3245	114.5628	4.3090e-01	4.2570e+00
147	IHT0000020	116.9771	118.7350	117.9380	4.3196e-01	4.2663e+00
148	IHT0000021	-2.2424	-0.0939	-1.2502	5.1575e-01	4.1000e+00
149	IHT0000022	96.7886	98.5464	97.5308	4.1007e-01	4.2144e+00
150	IHT0000023	114.6409	116.5941	115.5355	4.5863e-01	4.2597e+00
151	IHT0000024	80.4725	82.6209	81.2889	4.6302e-01	4.1798e+00
152	IHT0000025	102.7381	104.8866	103.7108	4.7102e-01	4.2291e+00
153	IHT0000026	103.7109	106.2500	104.8789	5.2717e-01	4.2320e+00
154	IHT0000027	87.0455	89.5846	88.0494	4.5165e-01	4.1935e+00
155	IHT0000028	88.6193	91.1584	89.5685	5.4392e-01	4.1967e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.6396	106.3740	104.8310	6.0005e-01	4.2319e+00
157	IHT000030	105.6190	108.5487	107.0526	6.2839e-01	4.2375e+00
158	IHT000031	94.7641	97.3032	95.8384	5.9875e-01	4.2105e+00
159	IHT000032	95.7933	98.7230	96.9729	6.5905e-01	4.2131e+00
160	IHT000033	95.7782	98.5126	96.9267	6.3336e-01	4.2130e+00
161	IHT000034	88.0521	90.9818	89.1498	5.5368e-01	4.1958e+00
162	IHT000035	116.0119	118.5509	117.2228	5.6221e-01	4.2643e+00
163	IHT000036	86.9479	89.2916	87.8697	5.1605e-01	4.1931e+00

Test: Aug15_12

sum2

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Velocity 1 = 3.7213 (ft/sec) (+/- 12.3355 %)
Velocity 2 = 3.7096 (ft/sec) (+/- 4.7333 %)
Pressure drop = -4.7213 (psi)
Tsat in = 267.4097 (deg F) Tsat out = 273.7703 (deg F)
Phi inner = 98.1950 (kBtu/hr-ft2) (+/- 1.5929 %)
Phi outer = 100.9516 (kBtu/hr-ft2) (+/- 1.4806 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.7589	79.3966	79.1926	1.6043e-01	1.9001e+00
1	TRF000002	79.2677	79.9017	79.5805	1.4938e-01	1.9001e+00
2	TFM000001	87.8679	88.8126	88.4011	2.1382e-01	1.9002e+00
3	TIN000001	87.4222	88.0532	87.6791	1.4749e-01	1.9002e+00
4	TRV000001	88.3481	89.0826	88.7050	1.9492e-01	1.9002e+00
5	TSR000001	127.3388	130.3761	129.0849	8.0454e-01	1.9024e+00
6	TAO020136	64.2308	65.9454	65.2081	4.1450e-01	1.9000e+00
7	TAO050136	209.0185	210.6408	209.6293	3.5224e-01	1.9131e+00
8	TAO070136	206.6096	208.7314	207.6400	4.7984e-01	1.9127e+00
9	TAO080136	245.0970	246.0320	245.6463	1.8179e-01	1.9207e+00
10	TAO090136	256.1378	257.1597	256.6913	2.3068e-01	1.9233e+00
11	TAO100136	255.8540	257.7138	256.9212	4.8482e-01	1.9234e+00
12	TAO105136	262.7041	264.1900	263.6068	3.2771e-01	1.9251e+00
13	TAO110136	272.9545	274.4166	273.7292	3.0986e-01	1.9278e+00
14	TAC115136	268.1897	269.7632	268.8746	3.0778e-01	1.9265e+00
15	TAO120136	280.8285	281.6557	281.3138	2.2117e-01	1.9298e+00
16	TAO125136	151.3199	152.9151	151.9300	3.4050e-01	1.9045e+00
17	TAO130136	274.7780	275.8734	275.1872	2.1735e-01	1.9282e+00
18	TAO120048	110.2075	111.3420	110.6862	2.9288e-01	1.9011e+00
19	TAO130048	259.9453	260.7782	260.2976	2.1193e-01	1.9242e+00
20	TAO120224	262.1714	264.1188	263.0591	3.2401e-01	1.9249e+00
21	TAO130224	251.4912	252.8796	252.1293	3.7565e-01	1.9222e+00
22	TAO120312	249.3942	250.6119	250.0649	3.1787e-01	1.9217e+00
23	TAO130312	245.0516	246.0800	245.6092	2.3538e-01	1.9207e+00
24	TRT020000	185.1613	186.7264	185.7994	3.2779e-01	1.9090e+00
25	TRT070000	218.7155	219.9613	219.2250	2.3353e-01	1.9149e+00
26	TRT100000	242.5125	243.5451	242.9262	2.0214e-01	1.9200e+00
27	TRT120000	253.7259	254.9373	254.1998	2.8664e-01	1.9227e+00
28	TRT125000	98.9768	99.7032	99.3959	1.7157e-01	1.9006e+00
29	TRT130000	247.2337	247.9823	247.5338	1.7538e-01	1.9211e+00
30	EMPTY	39.1464	40.0646	39.7571	2.2531e-01	1.9011e+00
31	TAF050136	142.9826	144.8860	143.8843	4.2441e-01	1.9037e+00
32	TAF070136	165.0984	166.8695	165.9208	3.5823e-01	1.9062e+00
33	TAF080136	237.7358	241.9380	240.1823	7.9929e-01	1.9194e+00
34	TAF090136	93.1426	94.1871	93.6771	2.4848e-01	1.9004e+00
35	TAF100136	200.7450	205.9578	203.3262	1.3390e+00	1.9119e+00
36	TAF105136	206.5285	211.5724	208.1173	1.1828e+00	1.9128e+00
37	TAF110136	212.6937	215.0732	213.6457	5.1893e-01	1.9139e+00
38	TAF115136	219.1222	221.6875	220.2588	6.2616e-01	1.9151e+00
39	TAF120136	261.9272	264.0511	262.8695	4.6857e-01	1.9249e+00
40	TAF125136	232.1982	234.2593	232.9396	4.0993e-01	1.9178e+00
41	TAF130136	235.7379	237.9960	236.6416	4.1414e-01	1.9186e+00
42	TAF120048	212.0064	217.4910	213.9020	1.3321e+00	1.9139e+00
43	TAF130048	220.5801	223.2420	221.7672	5.6868e-01	1.9155e+00
44	TAF120224	209.6129	213.6289	210.8269	8.4460e-01	1.9133e+00
45	TAF130224	217.3798	219.1046	218.2465	4.0549e-01	1.9147e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1491	2.1087e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.9178	1.3722e-01	1.9011e+00
48	TAI130048	260.8722	262.6361	261.9828	4.3138e-01	1.9247e+00
49	TAI130136	278.5861	279.6868	279.1034	2.4354e-01	1.9292e+00
50	TAI130224	248.0402	249.4474	248.8169	3.1934e-01	1.9214e+00
51	TAI130312	253.1472	254.1756	253.5925	2.8962e-01	1.9226e+00
52	TRR130000	108.8020	112.1894	111.3563	8.4037e-01	1.9012e+00
53	TSI000001	68.3690	69.4331	68.9781	2.0307e-01	1.9000e+00
54	TSI000002	81.9957	86.5107	84.0886	8.3446e-01	1.9001e+00
55	TSO000001	68.0371	68.8940	68.4570	2.0046e-01	1.9000e+00
56	TSO000002	81.8823	82.7271	82.3300	1.9953e-01	1.9001e+00
57	TAF020136	106.1408	108.1182	106.8909	4.1143e-01	1.9009e+00
58	TAF120312	197.6739	201.4385	199.9722	7.4081e-01	1.9113e+00
59	TAF130312	213.8875	217.5115	215.3677	9.5735e-01	1.9142e+00
60	EMPTY	3.4668	3.5205	3.4863	1.7425e-02	0.0000e+00
61	EMPTY	3.4619	3.5059	3.4736	1.4599e-02	0.0000e+00
62	EMPTY	3.4521	3.4912	3.4604	1.1889e-02	0.0000e+00
63	EMPTY	3.4473	3.4814	3.4566	9.2456e-03	0.0000e+00
64	EMPTY	1.6699	1.6846	1.6719	4.0673e-03	0.0000e+00
65	EMPTY	1.6846	1.6943	1.6868	3.5854e-03	0.0000e+00
66	EMPTY	1.6943	1.7041	1.6961	2.9197e-03	0.0000e+00
67	EMPTY	1.7041	1.7139	1.7082	2.6762e-03	0.0000e+00
68	EMPTY	1.7041	1.7236	1.7155	3.0581e-03	0.0000e+00
69	EMPTY	1.7236	1.7334	1.7272	2.5743e-03	0.0000e+00
70	EMPTY	1.7334	1.7383	1.7364	2.3941e-03	0.0000e+00
71	EMPTY	1.7529	1.7578	1.7531	9.6655e-04	0.0000e+00
72	EMPTY	1.7578	1.7627	1.7609	2.3675e-03	0.0000e+00
73	EMPTY	1.7725	1.7773	1.7742	2.3675e-03	0.0000e+00
74	EMPTY	1.7773	1.7871	1.7839	2.5362e-03	0.0000e+00
75	EMPTY	1.7920	1.8018	1.7962	1.9754e-03	0.0000e+00
76	EMPTY	1.8018	1.8066	1.8038	2.4344e-03	0.0000e+00
77	EMPTY	1.8115	1.8213	1.8165	1.2041e-03	0.0000e+00
78	EMPTY	1.8311	1.8359	1.8337	2.4583e-03	0.0000e+00
79	EMPTY	1.8506	1.8555	1.8509	1.1714e-03	0.0000e+00
80	PAN020136	-16.4706	-16.0891	-16.2951	8.1925e-02	8.7095e-01
81	PAN050136	-32.9159	-31.3900	-32.3818	4.5542e-01	1.6819e+00
82	PAN070136	-20.3056	-18.8560	-19.2985	4.6344e-01	8.7134e-01
83	PAN080136	-13.9558	-12.9640	-13.8276	1.4164e-01	8.7069e-01
84	PAN090136	-10.8865	0.8628	-8.2284	2.1381e+00	8.7024e-01
85	PAN100136	-12.1908	-4.2562	-9.2504	1.9114e+00	8.7031e-01
86	PAN105136	-7.7020	-3.1244	-4.9630	9.4982e-01	8.7009e-01
87	PAN110136	-6.0014	-2.0342	-4.3794	8.7476e-01	8.7007e-01
88	PAN115136	-6.4152	-2.7531	-4.6590	6.1876e-01	8.7008e-01
89	PAN120136	-5.2987	-3.0861	-4.3999	4.9234e-01	8.7007e-01
90	PAN125136	-4.6590	-3.0568	-4.0197	3.7595e-01	8.7006e-01
91	PAN130136	-5.8459	-4.5489	-5.3896	2.0650e-01	8.7010e-01
92	PAN120048	-12.0293	-8.8250	-10.6194	7.7457e-01	8.7040e-01
93	PAN130048	-9.8945	-8.2161	-9.1285	4.3404e-01	8.7030e-01
94	PAN120224	-12.4417	-7.7878	-9.2450	1.0576e+00	8.7031e-01
95	PAN130224	-10.2246	-8.6225	-9.6082	3.9323e-01	8.7033e-01
96	PAN120312	-13.7254	-3.2731	-8.8502	1.4860e+00	8.7028e-01
97	PAN130312	-14.5662	-3.5036	-9.7520	1.5459e+00	8.7034e-01
98	PAB000136	39.9534	40.1823	40.0276	5.5404e-02	5.8857e-01
99	PAB100136	43.3435	43.8928	43.6090	8.5264e-02	5.9016e-01
100	PAB125136	44.4369	44.6200	44.5010	5.6255e-02	5.9057e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7146	40.0808	39.8757	1.1419e-01	7.5660e-01
102	PRV000001	19.7186	19.8406	19.7454	5.1081e-02	7.5162e-01
103	PSR000001	44.5714	44.6935	44.6593	5.5366e-02	7.5826e-01
104	PFM000001	1.9155	2.1902	2.0455	7.1851e-02	5.0003e-01
105	PAN000136	-131.7916	-129.0450	-130.7112	6.2561e-01	4.9308e+00
106	PFM000002	1.9965	2.0804	2.0324	2.5143e-02	2.0006e-01
107	EMPTY	-0.0049	0.0049	0.0015	3.7239e-03	0.0000e+00
108	EMPTY	-9.8340	-3.7891	-5.5688	9.9408e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0008	2.0598e-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	131.9561	132.3468	132.1944	1.4385e-01	1.1337e+00
113	VPW000002	144.6440	145.2299	144.9057	1.0885e-01	1.1883e+00
114	VPW000003	117.8485	118.6298	118.1416	1.6857e-01	1.0764e+00
115	VPW000004	99.1849	99.5756	99.3647	1.0320e-01	1.0058e+00
116	VPW000005	108.2783	108.8642	108.5947	1.4167e-01	1.0395e+00
117	VPW000006	160.5131	161.0990	160.7710	1.2750e-01	1.2596e+00
118	IPW000001	1075.4410	1085.2028	1080.9075	2.8715e+00	1.1770e+01
119	IPW000002	768.0872	785.6487	773.4730	5.7610e+00	1.0146e+01
120	IPW000003	627.9375	643.5375	634.2944	3.2441e+00	9.5247e+00
121	IPW000004	535.2595	538.1891	536.1385	7.1817e-01	4.6840e+00
122	IPW000005	586.3765	588.8177	587.4608	5.7759e-01	5.0535e+00
123	IPW000006	423.2177	427.1240	424.9460	9.4212e-01	3.9077e+00
124	EMPTY	-0.0244	-0.0098	-0.0189	4.0241e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0136	3.7291e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0146	4.5206e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.0581e-03	0.0000e+00
128	IHT000001	125.9916	128.9213	127.3159	6.2177e-01	4.2931e+00
129	IHT000002	129.6687	132.4031	130.9422	6.1414e-01	4.3040e+00
130	IHT000003	129.7964	132.5308	131.1519	5.6828e-01	4.3047e+00
131	IHT000004	141.4025	143.7462	142.5860	5.3730e-01	4.3409e+00
132	IHT000005	139.6672	141.8157	140.6710	5.1601e-01	4.3346e+00
133	IHT000006	134.2511	136.5948	135.3955	5.3961e-01	4.3178e+00
134	IHT000007	128.0837	130.4274	129.4274	4.9227e-01	4.2994e+00
135	IHT000008	126.8630	129.0114	128.0817	4.7443e-01	4.2954e+00
136	IHT000009	127.5315	129.8753	128.7035	5.1145e-01	4.2973e+00
137	IHT000010	117.6908	119.8392	118.5892	4.6522e-01	4.2681e+00
138	IHT000011	115.7602	118.2993	116.7017	5.0638e-01	4.2629e+00
139	IHT000012	113.7883	115.9368	114.7414	4.6293e-01	4.2575e+00
140	IHT000013	93.0552	95.0083	93.9849	4.4039e-01	4.2063e+00
141	IHT000014	119.9181	122.0666	120.9259	4.7080e-01	4.2746e+00
142	IHT000015	96.8149	98.7680	97.8618	4.6145e-01	4.2152e+00
143	IHT000016	85.6333	87.7817	86.7466	4.6563e-01	4.1908e+00
144	IHT000017	103.3954	107.6923	105.8017	1.0781e+00	4.2343e+00
145	IHT000018	105.6415	108.5712	107.2080	6.1446e-01	4.2378e+00
146	IHT000019	113.1761	115.7151	114.6449	5.2680e-01	4.2573e+00
147	IHT000020	116.5865	119.3209	117.9927	5.4247e-01	4.2664e+00
148	IHT000021	-3.0236	0.1014	-1.1799	6.7792e-01	4.1000e+00
149	IHT000022	96.2027	98.5464	97.6050	5.2302e-01	4.2146e+00
150	IHT000023	114.2503	116.5941	115.6605	4.9172e-01	4.2600e+00
151	IHT000024	80.0819	82.2303	81.3943	4.5854e-01	4.1800e+00
152	IHT000025	102.5428	104.4959	103.7069	5.0372e-01	4.2291e+00
153	IHT000026	103.7109	105.8594	104.8516	5.2253e-01	4.2319e+00
154	IHT000027	87.0455	88.8033	87.9830	4.2499e-01	4.1933e+00
155	IHT000028	88.2287	91.1584	89.4709	6.1985e-01	4.1965e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	103.4443	106.1786	104.7373	6.1243e-01	4.2317e+00
157	IHT000030	105.6190	108.3533	106.9745	6.0414e-01	4.2373e+00
158	IHT000031	94.5688	97.1079	95.8657	5.6739e-01	4.2106e+00
159	IHT000032	95.9886	98.5276	96.9690	5.8059e-01	4.2131e+00
160	IHT000033	95.9736	98.3173	96.9306	5.6943e-01	4.2130e+00
161	IHT000034	88.0521	90.3959	89.0561	4.8969e-01	4.1956e+00
162	IHT000035	116.4025	118.3556	117.2814	4.6059e-01	4.2644e+00
163	IHT000036	86.9479	88.7057	87.7955	4.3514e-01	4.1929e+00

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Velocity 1 = 0.006400 (ft/sec)

Velocity 2 = 0.013300 (ft/sec)

Pressure Drop = 0.004300 (psi)

Tsat in = 0.202789 (deg F) Tsat out = 0.187897 (deg F)

Phi inner = 1.496101 (kBtu/hr-ft2) Phi outer = 0.517502 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1446	0.1829
1	TRF000002	0.1649	0.2076
2	TFM000001	0.2542	0.2884
3	TIN000001	0.2462	0.2816
4	TRV000001	0.2204	0.2491
5	TSR000001	0.3532	0.2729
6	TAO020136	0.2165	0.3331
7	TAO050136	0.0984	0.0470
8	TAO070136	0.0331	0.0159
9	TAO080136	0.2005	0.0817
10	TAO090136	0.2700	0.1053
11	TAO100136	0.1288	0.0502
12	TAO105136	0.3252	0.1235
13	TAO110136	0.5774	0.2114
14	TAO115136	0.1834	0.0683
15	TAO120136	0.1381	0.0491
16	TAO125136	0.1103	0.0726
17	TAO130136	0.1458	0.0530
18	TAO120048	0.4188	0.3798
19	TAO130048	0.4358	0.1677
20	TAO120224	0.0051	0.0019
21	TAO130224	0.0298	0.0118
22	TAO120312	0.3764	0.1507
23	TAO130312	0.0587	0.0239
24	TRT020000	0.0566	0.0305
25	TRT070000	0.0129	0.0059
26	TRT100000	0.3135	0.1292
27	TRT120000	0.3527	0.1389
28	TRT125000	2.3492	2.4207
29	TRT130000	0.4734	0.1916
30	EMPTY	0.0505	0.1269
31	TAF050136	0.1471	0.1023
32	TAF070136	0.2313	0.1396
33	TAF080136	0.0928	0.0387
34	TAF090136	1.3894	1.5055
35	TAF100136	0.3072	0.1513
36	TAF105136	0.0074	0.0036
37	TAF110136	0.0220	0.0103
38	TAF115136	0.2268	0.1031
39	TAF120136	0.0008	0.0003
40	TAF125136	0.1383	0.0594
41	TAF130136	0.1568	0.0663
42	TAF120048	0.4247	0.1989
43	TAF130048	0.4852	0.2193
44	TAF120224	0.1234	0.0585
45	TAF130224	0.0553	0.0254

#	Name	Abs Diff	%Diff
46	EMPTY	0.0276	0.0723
47	EMPTY	0.0321	0.0805
48	TAI130048	0.2026	0.0774
49	TAI130136	0.2224	0.0797
50	TAI130224	0.1182	0.0475
51	TAI130312	0.1926	0.0760
52	TRR130000	0.8605	0.7788
53	TSI000001	0.1034	0.1497
54	TSI000002	1.5827	1.9183
55	TSO000001	0.0069	0.0101
56	TSO000002	0.0530	0.0644
57	TAF020136	0.2055	0.1926
58	TAF120312	0.1220	0.0610
59	TAF130312	0.5661	0.2622
60	EMPTY	0.0210	0.5987
61	EMPTY	0.0231	0.6606
62	EMPTY	0.0246	0.7059
63	EMPTY	0.0244	0.7009
64	EMPTY	0.0117	0.6949
65	EMPTY	0.0116	0.6830
66	EMPTY	0.0119	0.6967
67	EMPTY	0.0120	0.6976
68	EMPTY	0.0117	0.6774
69	EMPTY	0.0114	0.6557
70	EMPTY	0.0106	0.6068
71	EMPTY	0.0099	0.5615
72	EMPTY	0.0095	0.5366
73	EMPTY	0.0099	0.5549
74	EMPTY	0.0095	0.5297
75	EMPTY	0.0076	0.4213
76	EMPTY	0.0082	0.4525
77	EMPTY	0.0089	0.4876
78	EMPTY	0.0073	0.3965
79	EMPTY	0.0070	0.3768
80	PAN020136	0.0320	0.1968
81	PAN050136	0.2014	0.6258
82	PAN070136	0.1374	0.7069
83	PAN080136	0.2395	1.7626
84	PAN090136	0.6622	7.4483
85	PAN100136	0.1358	1.4468
86	PAN105136	0.4211	9.2714
87	PAN110136	0.0244	0.5603
88	PAN115136	0.0367	0.7940
89	PAN120136	0.0855	1.9062
90	PAN125136	0.0610	1.4948
91	PAN130136	0.0793	1.4933
92	PAN120048	0.1571	1.5016
93	PAN130048	0.1648	1.7733
94	PAN120224	0.0672	0.7322
95	PAN130224	0.0260	0.2713
96	PAN120312	0.4349	4.6839
97	PAN130312	0.3311	3.5145
98	PAB000136	0.1364	0.3396
99	PAB100136	0.1355	0.3097
100	PAB125136	0.1382	0.3096

#	Name	Abs Diff	%Diff
101	PIN000001	0.3687	0.9161
102	PRV000001	0.0317	0.1608
103	PSR000001	0.1294	0.2889
104	PFM000001	0.0074	0.3605
105	PAN000136	0.1190	0.0910
106	PFM000002	0.0151	0.7375
107	EMPTY	0.0026	236.3636
108	EMPTY	0.6703	13.6838
109	EMPTY	0.0006	300.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	100.0000
112	VPW000001	0.0625	0.0473
113	VPW000002	0.0313	0.0216
114	VPW000003	0.0703	0.0595
115	VPW000004	0.0977	0.0982
116	VPW000005	0.0274	0.0252
117	VPW000006	0.0235	0.0146
118	IPW000001	19.7579	1.8619
119	IPW000002	28.2544	3.5242
120	IPW000003	30.1863	4.5428
121	IPW000004	7.5488	1.4281
122	IPW000005	3.3102	0.5603
123	IPW000006	1.6016	0.3755
124	EMPTY	0.0003	1.5625
125	EMPTY	0.0005	3.8168
126	EMPTY	0.0001	0.6897
127	EMPTY	0.0001	0.6173
128	IHT000001	0.1640	0.1286
129	IHT000002	0.1602	0.1222
130	IHT000003	0.0547	0.0417
131	IHT000004	0.0704	0.0494
132	IHT000005	0.0782	0.0556
133	IHT000006	0.0157	0.0116
134	IHT000007	0.0781	0.0603
135	IHT000008	0.0586	0.0457
136	IHT000009	0.0703	0.0546
137	IHT000010	0.0195	0.0164
138	IHT000011	0.0118	0.0101
139	IHT000012	0.0274	0.0239
140	IHT000013	0.0665	0.0708
141	IHT000014	0.0234	0.0194
142	IHT000015	0.0469	0.0479
143	IHT00001	0.0742	0.0855
144	IHT000017	0.4649	0.4375
145	IHT000018	0.1367	0.1274
146	IHT000019	0.0821	0.0717
147	IHT000020	0.0547	0.0464
148	IHT000021	0.0703	5.6231
149	IHT000022	0.0742	0.0761
150	IHT000023	0.1250	0.1082
151	IHT000024	0.1054	0.1297
152	IHT000025	0.0039	0.0038
153	IHT000026	0.0273	0.0260
154	IHT000027	0.0664	0.0754
155	IHT000028	0.0976	0.1090

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0937	0.0894
157	IHT000030	0.0781	0.0729
158	IHT000031	0.0273	0.0285
159	IHT000032	0.0039	0.0040
160	IHT000033	0.0039	0.0040
161	IHT000034	0.0937	0.1051
162	IHT000035	0.0586	0.0500
163	IHT000036	0.0742	0.0844

Velocity 1 = 13.9924 (ft/sec) (+/- 1.8678 %)
Velocity 2 = 13.4157 (ft/sec) (+/- 1.7033 %)
Pressure drop = 2.1832 (psi)
Tsats in = 267.5391 (deg F) Tsats out = 264.2321 (deg F)
Phi inner = 198.6377 (kBtu/hr-ft2) (+/- 1.3807 %)
Phi outer = 202.0516 (kBtu/hr-ft2) (+/- 1.2995 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.7317	82.5798	82.0922	1.9746e-01	1.9001e+00
1	TRF000002	82.2238	82.8563	82.5063	1.4514e-01	1.9001e+00
2	TFM000001	87.4600	88.2995	87.8589	1.8111e-01	1.9002e+00
3	TIN000001	86.9000	87.4260	87.1357	1.0760e-01	1.9002e+00
4	TRV000001	88.0539	88.7896	88.4491	2.0146e-01	1.9002e+00
5	TSR000001	128.6758	131.5081	130.5043	7.6828e-01	1.9025e+00
6	TAO020136	49.9924	51.9453	51.0513	4.9070e-01	1.9002e+00
7	TAO050136	164.9653	166.6396	165.7924	4.7709e-01	1.9062e+00
8	TAO070136	160.6148	164.2978	161.6150	6.5108e-01	1.9056e+00
9	TAO080136	130.3011	132.0201	131.0181	3.8760e-01	1.9025e+00
10	TAO090136	193.1341	194.8761	193.9159	3.6196e-01	1.9103e+00
11	TAO100136	186.6695	189.1970	187.5567	5.8078e-01	1.9093e+00
12	TAO105136	189.9134	192.4431	190.6690	5.1048e-01	1.9098e+00
13	TAO110136	199.0304	200.5634	199.5456	3.0785e-01	1.9113e+00
14	TAO115136	191.4183	193.5555	192.2153	4.0323e-01	1.9100e+00
15	TAO120136	205.8116	207.3495	206.4344	3.8314e-01	1.9125e+00
16	TAO125136	135.8921	137.2033	136.4893	2.6950e-01	1.9030e+00
17	TAO130136	198.0750	199.4074	198.5982	2.9204e-01	1.9111e+00
18	TAO120048	104.1219	105.2623	104.6400	3.0830e-01	1.9008e+00
19	TAO130048	186.8496	188.5004	187.4014	3.7577e-01	1.9093e+00
20	TAO120224	191.5462	193.3901	192.0550	3.4934e-01	1.9100e+00
21	TAO130224	181.2385	183.2749	181.9849	4.9067e-01	1.9084e+00
22	TAO120312	179.3987	180.8698	180.0346	3.8722e-01	1.9081e+00
23	TAO130312	179.1694	180.0510	179.5227	2.0743e-01	1.9081e+00
24	TRT020000	150.8922	151.6946	151.3416	2.4236e-01	1.9045e+00
25	TRT070000	168.3349	169.4269	168.9027	2.4237e-01	1.9066e+00
26	TRT100000	181.4116	182.4860	182.0056	2.3067e-01	1.9084e+00
27	TRT120000	184.0270	185.8801	184.9092	3.2422e-01	1.9089e+00
28	TRT125000	94.9643	95.7979	95.5140	1.9968e-01	1.9004e+00
29	TRT130000	181.5270	182.2123	181.9226	1.6756e-01	1.9084e+00
30	EMPTY	39.6057	40.2940	39.8352	1.9671e-01	1.9011e+00
31	TAF050136	117.2075	118.5358	117.9200	3.4672e-01	1.9015e+00
32	TAF070136	130.9522	131.8644	131.4310	2.5738e-01	1.9025e+00
33	TAF080136	177.7345	198.8763	185.3098	5.4747e+00	1.9089e+00
34	TAF090136	93.4651	94.5106	94.0466	2.3222e-01	1.9004e+00
35	TAF100136	148.2484	149.6537	149.0877	3.3173e-01	1.9042e+00
36	TAF105136	151.5795	153.2635	152.4972	3.2949e-01	1.9046e+00
37	TAF110136	155.1649	156.4565	155.7688	3.0153e-01	1.9049e+00
38	TAF115136	159.3809	160.3739	159.9133	2.3769e-01	1.9054e+00
39	TAF120136	179.8638	182.3961	180.7991	6.4300e-01	1.9083e+00
40	TAF125136	165.3253	167.1872	166.0640	4.1886e-01	1.9062e+00
41	TAF130136	168.0399	169.1244	168.6346	2.6265e-01	1.9065e+00
42	TAF120048	150.2616	151.6716	150.9745	3.3010e-01	1.9044e+00
43	TAF130048	156.5446	157.7387	157.1694	2.4851e-01	1.9051e+00
44	TAF120224	150.9055	152.5034	151.8604	2.9645e-01	1.9045e+00
45	TAF130224	155.0906	155.8920	155.5835	2.2497e-01	1.9049e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1216	2.1391e-01	1.9010e+00
47	EMPTY	39.3761	40.0646	39.7113	1.4816e-01	1.9011e+00
48	TAI130048	179.2348	180.8016	180.1714	3.4613e-01	1.9082e+00
49	TAI130136	199.6063	200.3793	199.9888	2.2120e-01	1.9113e+00
50	TAI130224	177.8913	179.5618	179.0310	3.5270e-01	1.9080e+00
51	TAI130312	179.0323	180.3076	179.6329	2.5194e-01	1.9081e+00
52	TRR130000	121.5014	122.7248	122.2230	3.1604e-01	1.9018e+00
53	TSI000001	65.9359	66.7909	66.4275	1.7806e-01	1.9000e+00
54	TSI000002	103.7968	107.8209	105.9284	8.1109e-01	1.9009e+00
55	TSO000001	65.5621	66.3139	65.9615	1.9402e-01	1.9000e+00
56	TSO000002	75.2231	76.0730	75.6270	1.9430e-01	1.9000e+00
57	TAF020136	95.8797	98.0821	96.9668	4.9731e-01	1.9005e+00
58	TAF120312	142.7984	144.5081	143.5913	3.7864e-01	1.9036e+00
59	TAF130312	151.7701	152.8677	152.3205	3.0186e-01	1.9046e+00
60	EMPTY	1.8506	1.8652	1.8569	3.0003e-03	0.0000e+00
61	EMPTY	1.8555	1.8652	1.8585	2.5894e-03	0.0000e+00
62	EMPTY	1.8555	1.8604	1.8588	2.3008e-03	0.0000e+00
63	EMPTY	1.8604	1.8701	1.8652	1.3951e-03	0.0000e+00
64	EMPTY	1.0010	1.0059	1.0018	1.8082e-03	0.0000e+00
65	EMPTY	1.0205	1.0254	1.0238	2.3008e-03	0.0000e+00
66	EMPTY	1.0352	1.0400	1.0383	2.3675e-03	0.0000e+00
67	EMPTY	1.0547	1.0596	1.0550	1.1714e-03	0.0000e+00
68	EMPTY	1.0645	1.0693	1.0691	9.6655e-04	0.0000e+00
69	EMPTY	1.0840	1.0840	1.0840	0.0000e+00	0.0000e+00
70	EMPTY	1.0889	1.0986	1.0983	1.5314e-03	0.0000e+00
71	EMPTY	1.1133	1.1182	1.1180	9.6655e-04	0.0000e+00
72	EMPTY	1.1279	1.1328	1.1320	1.8082e-03	0.0000e+00
73	EMPTY	1.1475	1.1523	1.1495	2.4344e-03	0.0000e+00
74	EMPTY	1.1572	1.1670	1.1632	2.2689e-03	0.0000e+00
75	EMPTY	1.1768	1.1816	1.1815	6.9053e-04	0.0000e+00
76	EMPTY	1.1914	1.1963	1.1928	2.2146e-03	0.0000e+00
77	EMPTY	1.2109	1.2207	1.2112	1.5314e-03	0.0000e+00
78	EMPTY	1.2305	1.2354	1.2310	1.4797e-03	0.0000e+00
79	EMPTY	1.2500	1.2549	1.2507	1.7115e-03	0.0000e+00
80	PAN020136	5.8835	25.1096	13.9173	5.4232e+00	8.7070e-01
81	PAN050136	5.5363	19.7269	13.3640	3.0133e+00	1.6803e+00
82	PAN070136	-3.8261	19.2909	2.8282	5.9333e+00	8.7003e-01
83	PAN080136	-5.1057	15.0359	6.1065	4.7473e+00	8.7013e-01
84	PAN090136	-7.7584	14.3668	1.2565	5.2488e+00	8.7001e-01
85	PAN100136	-12.1908	16.1906	1.9770	6.3737e+00	8.7001e-01
86	PAN105136	-7.6257	16.8647	2.0514	5.1318e+00	8.7002e-01
87	PAN110136	-7.1459	18.1837	4.8155	5.4257e+00	8.7008e-01
88	PAN115136	-6.0338	13.4975	4.7862	3.6227e+00	8.7008e-01
89	PAN120136	-4.1543	17.3606	6.1973	5.2857e+00	8.7014e-01
90	PAN125136	-6.0323	8.0058	1.3331	4.2140e+00	8.7001e-01
91	PAN130136	-4.6252	9.2603	1.8873	3.0115e+00	8.7001e-01
92	PAN120048	-7.6043	4.3739	-2.1004	2.8616e+00	8.7002e-01
93	PAN130048	5.2879	17.0372	10.7643	2.5514e+00	8.7042e-01
94	PAN120224	-3.3627	11.2094	1.0044	3.2703e+00	8.7000e-01
95	PAN130224	2.0587	13.8079	9.7354	2.9797e+00	8.7034e-01
96	PAN120312	-2.8154	2.9830	-0.1130	1.5753e+00	8.7000e-01
97	PAN130312	5.0414	9.3138	7.3195	1.3554e+00	8.7019e-01
98	PAB000136	39.5872	40.6858	40.1145	2.4940e-01	5.8861e-01
99	PAB100136	37.9877	38.8574	38.5269	2.1196e-01	5.8794e-01
100	PAB125136	37.7077	38.1655	37.9440	9.7594e-02	5.8771e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3483	40.9353	40.0832	3.8562e-01	7.5666e-01
102	PRV000001	19.8406	19.8406	19.8406	1.9267e-06	7.5164e-01
103	PSR000001	36.7589	37.0031	36.8468	6.5435e-02	7.5564e-01
104	PFM000001	29.6560	30.2969	30.0076	1.4954e-01	5.0560e-01
105	PAN000136	43.9897	80.1530	60.4418	8.7029e+00	4.9223e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0069	2.4344e-03	0.0000e+00
108	EMPTY	-10.0000	-6.2695	-9.9230	5.2749e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0052	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	187.0343	187.4249	187.2139	1.1732e-01	1.3849e+00
113	VPW000002	204.9955	205.3861	205.1908	1.0440e-01	1.4737e+00
114	VPW000003	167.4579	167.8485	167.6103	1.1361e-01	1.2913e+00
115	VPW000004	140.2006	140.7865	140.5366	1.1189e-01	1.1692e+00
116	VPW000005	153.2001	153.5907	153.4580	1.0763e-01	1.2263e+00
117	VPW000006	227.5053	228.0912	227.7552	1.1864e-01	1.5886e+00
118	IPW000001	1497.1472	1503.0043	1501.2472	1.2628e+00	1.4362e+01
119	IPW000002	1119.3158	1127.1208	1123.1791	1.6008e+00	1.2014e+01
120	IPW000003	920.4375	926.2875	923.7133	1.2729e+00	1.0902e+01
121	IPW000004	745.7087	747.1735	746.2360	3.0945e-01	6.2253e+00
122	IPW000005	832.9339	834.3986	833.3536	3.2730e-01	6.8806e+00
123	IPW000006	599.4872	603.8818	602.0845	1.2299e+00	5.1598e+00
124	EMPTY	-0.0293	-0.0146	-0.0207	3.4961e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.8862e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0165	3.4016e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0049	-0.0151	3.3087e-03	0.0000e+00
128	IHT000001	178.3353	180.8744	179.6049	6.4144e-01	4.4761e+00
129	IHT000002	183.3797	186.1140	184.6141	5.9639e-01	4.4965e+00
130	IHT000003	184.2886	186.6324	185.4761	5.6750e-01	4.5000e+00
131	IHT000004	199.8009	202.7306	201.2462	6.1130e-01	4.5673e+00
132	IHT000005	197.0891	199.6282	198.5538	5.9222e-01	4.5555e+00
133	IHT000006	191.2823	194.0167	192.7354	5.4983e-01	4.5304e+00
134	IHT000007	181.4040	183.7477	182.5876	5.0595e-01	4.4882e+00
135	IHT000008	179.5973	181.7458	180.7809	4.6923e-01	4.4809e+00
136	IHT000009	180.4612	182.8050	181.6996	5.4905e-01	4.4846e+00
137	IHT000010	166.9095	169.8392	167.9643	6.6380e-01	4.4307e+00
138	IHT000011	164.1977	166.7368	165.2602	6.2907e-01	4.4205e+00
139	IHT000012	161.4446	164.1790	162.4445	6.3826e-01	4.4101e+00
140	IHT000013	133.0942	135.6333	134.0825	6.1815e-01	4.3137e+00
141	IHT000014	170.3087	173.2384	171.4454	5.6592e-01	4.4440e+00
142	IHT000015	137.6352	140.5649	138.8110	5.7790e-01	4.3286e+00
143	IHT000016	120.9848	124.3051	122.4809	5.9137e-01	4.2790e+00
144	IHT000017	146.9501	150.8564	148.8135	7.0720e-01	4.3617e+00
145	IHT000018	149.9775	152.5165	151.1650	6.2991e-01	4.3698e+00
146	IHT000019	160.4417	163.1761	161.8558	5.2432e-01	4.4079e+00
147	IHT000020	165.8053	167.9537	167.1412	4.9341e-01	4.4276e+00
148	IHT000021	-2.6330	0.1014	-1.2970	6.0019e-01	4.1000e+00
149	IHT000022	137.2183	138.9761	138.0269	4.1387e-01	4.3261e+00
150	IHT000023	162.8831	164.8363	163.7699	4.7385e-01	4.4150e+00
151	IHT000024	127.7381	130.0819	128.9491	4.7679e-01	4.2980e+00
152	IHT000025	145.3163	147.8553	146.5468	4.9007e-01	4.3540e+00
153	IHT000026	147.0703	149.6094	148.4766	5.1599e-01	4.3606e+00
154	IHT000027	122.9830	125.3268	124.3345	5.2176e-01	4.2844e+00
155	IHT000028	124.9474	127.6818	126.3185	6.0295e-01	4.2902e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.8036	149.1474	147.8857	5.3410e-01	4.3586e+00
157	IHT000030	149.3690	152.1033	150.6659	5.8628e-01	4.3681e+00
158	IHT000031	133.4360	136.1704	134.9595	5.9057e-01	4.3164e+00
159	IHT000032	135.0511	138.1761	136.7582	5.9426e-01	4.3221e+00
160	IHT000033	135.0361	137.9657	136.7080	5.7339e-01	4.3219e+00
161	IHT000034	125.1615	126.9193	126.1694	4.1827e-01	4.2897e+00
162	IHT000035	165.2306	166.7931	166.1915	4.1166e-01	4.4240e+00
163	IHT000036	123.4713	125.4244	124.4947	4.3326e-01	4.2848e+00

Test: Aug15_13

sum2

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Page: 1

Velocity 1 = 13.9443 (ft/sec) (+/- 1.8703 %)

Velocity 2 = 13.4147 (ft/sec) (+/- 1.7033 %)

Pressure drop = 2.1673 (psi)

Tsats in = 267.4874 (deg F) Tsats out = 264.2864 (deg F)

Phi inner = 199.0549 (kBtu/hr-ft2) (+/- 1.3807 %)

Phi outer = 202.1099 (kBtu/hr-ft2) (+/- 1.2991 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.7317	82.5798	82.1940	1.9483e-01	1.9001e+00
1	TRF000002	82.4346	82.8563	82.5696	1.1866e-01	1.9001e+00
2	TFM000001	86.5165	87.3566	87.0308	1.8272e-01	1.9002e+00
3	TIN000001	86.0583	86.5852	86.3257	1.2630e-01	1.9002e+00
4	TRV000001	87.0093	88.0568	87.5321	2.0360e-01	1.9002e+00
5	TSR000001	127.0564	131.4061	129.3944	1.4015e+00	1.9024e+00
6	TAO020136	53.2439	55.6225	54.5698	6.0256e-01	1.9002e+00
7	TAO050136	164.2775	166.2464	165.2089	5.0903e-01	1.9061e+00
8	TAO070136	160.5153	163.4030	161.3659	7.4120e-01	1.9056e+00
9	TAO080136	129.4971	130.8102	130.0644	2.9654e-01	1.9024e+00
10	TAO090136	192.8430	194.1987	193.4773	2.9731e-01	1.9102e+00
11	TAO100136	186.2798	189.1970	187.2984	5.9871e-01	1.9092e+00
12	TAO105136	189.8162	192.1514	190.4220	4.3123e-01	1.9097e+00
13	TAO110136	198.5519	199.8950	199.2421	2.6824e-01	1.9112e+00
14	TAO115136	191.3210	193.4592	191.8987	4.2305e-01	1.9100e+00
15	TAO120136	205.7149	207.1573	206.1867	2.9863e-01	1.9125e+00
16	TAO125136	140.8255	142.0322	141.6311	2.5719e-01	1.9035e+00
17	TAO130136	198.0740	199.0300	198.3767	2.1332e-01	1.9111e+00
18	TAO120048	103.0854	104.4333	103.8264	3.1203e-01	1.9008e+00
19	TAO130048	186.0726	187.2408	186.5462	3.0024e-01	1.9091e+00
20	TAO120224	190.9639	193.2926	191.7196	3.4475e-01	1.9100e+00
21	TAO130224	180.8539	183.0791	181.5889	5.0794e-01	1.9084e+00
22	TAO120312	178.4186	180.3804	179.2759	4.5215e-01	1.9080e+00
23	TAO130312	178.3885	179.0747	178.6929	1.7495e-01	1.9079e+00
24	TRT020000	150.0895	150.9920	150.5453	1.8035e-01	1.9044e+00
25	TRT070000	167.5398	168.5328	168.0699	2.2661e-01	1.9065e+00
26	TRT100000	180.7298	181.6093	181.1892	2.3034e-01	1.9083e+00
27	TRT120000	183.4428	184.7114	184.1007	2.8751e-01	1.9088e+00
28	TRT125000	94.1369	94.8661	94.4135	1.4815e-01	1.9004e+00
29	TRT130000	180.6508	181.6273	181.1136	1.9024e-01	1.9083e+00
30	EMPTY	39.3761	40.0646	39.7571	2.3003e-01	1.9011e+00
31	TAF050136	116.5964	117.8241	117.1914	3.4542e-01	1.9015e+00
32	TAF070136	130.3478	131.5630	131.0503	3.1910e-01	1.9025e+00
33	TAF080136	176.7616	199.7399	184.9044	5.9597e+00	1.9089e+00
34	TAF090136	91.6901	92.8401	92.2489	2.6340e-01	1.9003e+00
35	TAF100136	147.5458	149.4537	148.6723	3.9185e-01	1.9042e+00
36	TAF105136	151.4845	152.6724	152.1595	2.9586e-01	1.9045e+00
37	TAF110136	154.8681	156.0599	155.4738	2.3768e-01	1.9049e+00
38	TAF115136	158.9856	159.9778	159.5036	2.1322e-01	1.9054e+00
39	TAF120136	179.5730	181.8116	180.5251	4.8894e-01	1.9082e+00
40	TAF125136	165.1317	166.7969	165.8903	3.7451e-01	1.9062e+00
41	TAF130136	167.7447	168.8295	168.3299	2.4592e-01	1.9065e+00
42	TAF120048	149.1537	150.6640	149.9415	3.6248e-01	1.9043e+00
43	TAF130048	155.5509	156.5462	156.1100	2.5040e-01	1.9050e+00
44	TAF120224	150.6077	152.1052	151.4359	3.0473e-01	1.9045e+00
45	TAF130224	154.8908	155.6913	155.3091	1.8274e-01	1.9049e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1308	2.1330e-01	1.9010e+00
47	EMPTY	39.3761	40.0646	39.6791	1.9912e-01	1.9011e+00
48	TAI130048	178.6482	180.1168	179.4729	3.1296e-01	1.9081e+00
49	TAI130136	199.3201	200.5711	199.8874	2.6129e-01	1.9113e+00
50	TAI130224	177.6948	178.9723	178.3808	3.2043e-01	1.9079e+00
51	TAI130312	178.8360	180.0140	179.4036	2.4215e-01	1.9080e+00
52	TRR130000	123.4333	124.6560	124.0834	3.0808e-01	1.9020e+00
53	TSI000001	66.0433	67.0039	66.4898	1.8768e-01	1.9000e+00
54	TSI000002	103.9005	107.4105	105.7659	7.5595e-01	1.9009e+00
55	TSO000001	65.5621	66.4208	65.9678	1.8567e-01	1.9000e+00
56	TSO000002	75.1175	75.8615	75.5063	1.9378e-01	1.9000e+00
57	TAF020136	95.1442	96.8238	96.1247	3.7556e-01	1.9005e+00
58	TAF120312	141.8940	143.4038	142.7695	3.9201e-01	1.9036e+00
59	TAF130312	151.0720	152.1707	151.6049	2.4325e-01	1.9045e+00
60	EMPTY	1.8311	1.8457	1.8371	3.0501e-03	0.0000e+00
61	EMPTY	1.8311	1.8457	1.8385	2.9986e-03	0.0000e+00
62	EMPTY	1.8359	1.8457	1.8393	2.5034e-03	0.0000e+00
63	EMPTY	1.8408	1.8506	1.8461	2.5800e-03	0.0000e+00
64	EMPTY	0.9912	0.9961	0.9927	2.2603e-03	0.0000e+00
65	EMPTY	1.0107	1.0156	1.0146	2.0432e-03	0.0000e+00
66	EMPTY	1.0254	1.0303	1.0292	2.0432e-03	0.0000e+00
67	EMPTY	1.0449	1.0498	1.0469	2.4164e-03	0.0000e+00
68	EMPTY	1.0547	1.0742	1.0596	2.4164e-03	0.0000e+00
69	EMPTY	1.0742	1.0791	1.0743	6.9053e-04	0.0000e+00
70	EMPTY	1.0840	1.0889	1.0887	9.6655e-04	0.0000e+00
71	EMPTY	1.1084	1.1133	1.1086	9.6655e-04	0.0000e+00
72	EMPTY	1.1182	1.1279	1.1223	2.0598e-03	0.0000e+00
73	EMPTY	1.1377	1.1426	1.1399	2.4583e-03	0.0000e+00
74	EMPTY	1.1523	1.1572	1.1545	2.4484e-03	0.0000e+00
75	EMPTY	1.1670	1.1719	1.1717	9.6655e-04	0.0000e+00
76	EMPTY	1.1816	1.1865	1.1833	2.3365e-03	0.0000e+00
77	EMPTY	1.2012	1.2061	1.2013	6.9053e-04	0.0000e+00
78	EMPTY	1.2207	1.2256	1.2215	1.8082e-03	0.0000e+00
79	EMPTY	1.2354	1.2500	1.2427	2.8334e-03	0.0000e+00
80	PAN020136	2.8318	23.9652	14.1370	5.5472e+00	8.7072e-01
81	PAN050136	8.1303	22.4735	14.0293	3.0747e+00	1.6804e+00
82	PAN070136	-1.9188	14.4081	4.3709	5.1581e+00	8.7007e-01
83	PAN080136	-6.8605	15.1122	4.0053	5.4669e+00	8.7006e-01
84	PAN090136	-12.4123	17.5712	-1.4245	5.9600e+00	8.7001e-01
85	PAN100136	-12.0382	16.1906	4.0461	5.7498e+00	8.7006e-01
86	PAN105136	-7.7020	19.2298	2.9425	6.2330e+00	8.7003e-01
87	PAN110136	-7.1459	15.7423	5.2901	4.7412e+00	8.7010e-01
88	PAN115136	-7.4834	12.2768	3.5182	4.6671e+00	8.7004e-01
89	PAN120136	-3.0861	16.0636	6.0188	3.5081e+00	8.7013e-01
90	PAN125136	-6.0323	11.9731	0.9959	3.8166e+00	8.7000e-01
91	PAN130136	-3.0993	10.5573	2.1925	2.4060e+00	8.7002e-01
92	PAN120048	-6.6888	3.9161	-2.2332	2.7883e+00	8.7002e-01
93	PAN130048	4.9065	15.5876	10.3020	2.7886e+00	8.7038e-01
94	PAN120224	-4.8886	7.2422	0.0507	3.0259e+00	8.7000e-01
95	PAN130224	0.9906	15.4101	10.9897	3.4953e+00	8.7043e-01
96	PAN120312	-3.8072	2.5252	-0.0459	1.5584e+00	8.7000e-01
97	PAN130312	5.3465	9.4664	7.3577	1.3509e+00	8.7019e-01
98	PAB000136	39.7245	40.5027	40.0797	2.2475e-01	5.8859e-01
99	PAB100136	38.1250	38.7659	38.5388	1.6594e-01	5.8795e-01
100	PAB125136	37.7993	38.1197	37.9787	7.1541e-02	5.8772e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3483	40.6911	40.1101	3.6626e-01	7.5667e-01
102	PRV000001	19.8406	19.9627	19.8870	5.9853e-02	7.5165e-01
103	PSR000001	36.6368	37.0031	36.8566	6.9754e-02	7.5564e-01
104	PFM000001	29.3814	30.4800	29.8043	2.5822e-01	5.0552e-01
105	PAN000136	44.9052	77.4064	60.0023	7.5482e+00	4.9223e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0063	2.2603e-03	0.0000e+00
108	EMPTY	-10.0000	-6.8506	-9.6105	8.8384e-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	186.8389	187.2296	187.1319	1.0625e-01	1.3845e+00
113	VPW000002	204.9955	205.3861	205.2299	9.6655e-02	1.4739e+00
114	VPW000003	167.2626	167.8485	167.5595	1.1327e-01	1.2911e+00
115	VPW000004	140.0052	140.7865	140.5053	1.4314e-01	1.1691e+00
116	VPW000005	153.2001	153.5907	153.4463	1.0297e-01	1.2263e+00
117	VPW000006	227.5053	227.8959	227.6966	1.1497e-01	1.5883e+00
118	IPW000001	1497.1472	1503.0043	1500.0372	1.2622e+00	1.4354e+01
119	IPW000002	1125.1696	1131.0233	1127.6670	1.2491e+00	1.2040e+01
120	IPW000003	920.4375	926.2875	923.3622	1.1982e+00	1.0900e+01
121	IPW000004	750.5915	751.5681	751.1188	2.3839e-01	6.2618e+00
122	IPW000005	831.9575	832.9339	832.3868	3.3652e-01	6.8733e+00
123	IPW000006	602.4169	603.3935	602.7681	3.1258e-01	5.1648e+00
124	EMPTY	-0.0244	-0.0098	-0.0187	3.5141e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0129	3.2359e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0146	3.4173e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.2955e-03	0.0000e+00
128	IHT000001	178.7260	181.0697	179.8237	5.4231e-01	4.4770e+00
129	IHT000002	183.5750	186.3094	184.7899	5.4001e-01	4.4972e+00
130	IHT000003	184.6792	187.2183	185.7457	5.2824e-01	4.5011e+00
131	IHT000004	200.1915	202.9259	201.3673	5.3596e-01	4.5678e+00
132	IHT000005	197.4797	200.0188	198.6671	5.1120e-01	4.5560e+00
133	IHT000006	191.8682	194.4073	192.8643	5.1938e-01	4.5310e+00
134	IHT000007	181.4040	184.1384	182.8727	5.6667e-01	4.4893e+00
135	IHT000008	179.7926	182.1364	181.0739	5.4556e-01	4.4821e+00
136	IHT000009	181.0472	183.1956	182.0980	4.9895e-01	4.4862e+00
137	IHT000010	166.5189	169.6439	168.1401	6.5584e-01	4.4314e+00
138	IHT000011	164.0024	166.5415	165.4204	6.1487e-01	4.4211e+00
139	IHT000012	161.0540	163.5930	162.5773	6.4356e-01	4.4106e+00
140	IHT000013	132.7036	135.2426	134.2934	5.7590e-01	4.3143e+00
141	IHT000014	170.1134	173.0431	171.6407	6.4680e-01	4.4448e+00
142	IHT000015	137.4399	140.5649	139.0493	6.3572e-01	4.3294e+00
143	IHT000016	121.3755	123.9145	122.7075	6.0062e-01	4.2797e+00
144	IHT000017	148.5126	151.4423	150.0439	6.0921e-01	4.3659e+00
145	IHT000018	150.3681	152.9072	151.5869	6.1834e-01	4.3713e+00
146	IHT000019	161.0276	162.3948	161.5668	3.9766e-01	4.4069e+00
147	IHT000020	166.0006	167.7584	166.8208	4.3762e-01	4.4264e+00
148	IHT000021	-2.4377	-0.4845	-1.6955	5.1750e-01	4.1000e+00
149	IHT000022	137.0230	138.5855	137.6948	3.9883e-01	4.3250e+00
150	IHT000023	162.6878	164.4456	163.4496	4.1055e-01	4.4138e+00
151	IHT000024	127.9334	129.4959	128.5897	4.0387e-01	4.2969e+00
152	IHT000025	145.5116	147.4647	146.3710	4.3405e-01	4.3534e+00
153	IHT000026	147.4609	149.0234	148.2266	3.8020e-01	4.3597e+00
154	IHT000027	123.3737	125.3268	124.2329	4.5847e-01	4.2841e+00
155	IHT000028	125.1427	127.8771	126.4982	6.0285e-01	4.2907e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.6083	149.7333	148.0810	6.0000e-01	4.3592e+00
157	IHT000030	149.3690	152.4940	150.9003	6.2808e-01	4.3689e+00
158	IHT000031	133.8266	136.5610	135.2251	6.0793e-01	4.3172e+00
159	IHT000032	135.6370	138.3714	137.0472	6.2923e-01	4.3230e+00
160	IHT000033	135.6220	138.1611	136.9970	6.2634e-01	4.3228e+00
161	IHT000034	125.1615	127.5053	126.2827	5.0657e-01	4.2901e+00
162	IHT000035	165.2306	167.3790	166.3282	5.1432e-01	4.4245e+00
163	IHT000036	123.4713	125.6197	124.6314	4.7089e-01	4.2852e+00

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Velocity 1 = 0.048100 (ft/sec)

Velocity 2 = 0.001000 (ft/sec)

Pressure Drop = 0.015900 (psi)

Tsat in = 0.051697 (deg F) Tsat out = 0.054321 (deg F)

Phi inner = 0.417206 (kBtu/hr-ft2) Phi outer = 0.058289 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1018	0.1240
1	TRF000002	0.0633	0.0767
2	TFM000001	0.8281	0.9425
3	TIN000001	0.8100	0.9296
4	TRV000001	0.9170	1.0368
5	TSR000001	1.1099	0.8505
6	TAO020136	3.5185	6.8921
7	TAO050136	0.5835	0.3520
8	TAO070136	0.2491	0.1541
9	TAO080136	0.9537	0.7279
10	TAO090136	0.4386	0.2262
11	TAO100136	0.2583	0.1377
12	TAO105136	0.2470	0.1295
13	TAO110136	0.3035	0.1521
14	TAO115136	0.3166	0.1647
15	TAO120136	0.2477	0.1200
16	TAO125136	5.1418	3.7672
17	TAO130136	0.2215	0.1115
18	TAO120048	0.8136	0.7775
19	TAO130048	0.8552	0.4563
20	TAO120224	0.3354	0.1746
21	TAO130224	0.3960	0.2176
22	TAO120312	0.7587	0.4214
23	TAO130312	0.8298	0.4622
24	TRT020000	0.7963	0.5262
25	TRT070000	0.8328	0.4931
26	TRT100000	0.8164	0.4486
27	TRT120000	0.8085	0.4372
28	TRT125000	1.1005	1.1522
29	TRT130000	0.8090	0.4447
30	EMPTY	0.0781	0.1961
31	TAF050136	0.7286	0.6179
32	TAF070136	0.3807	0.2897
33	TAF080136	0.4054	0.2188
34	TAF090136	1.7977	1.9115
35	TAF100136	0.4154	0.2786
36	TAF105136	0.3377	0.2214
37	TAF110136	0.2950	0.1894
38	TAF115136	0.4097	0.2562
39	TAF120136	0.2740	0.1516
40	TAF125136	0.1737	0.1046
41	TAF130136	0.3047	0.1807
42	TAF120048	1.0330	0.6842
43	TAF130048	1.0594	0.6741
44	TAF120224	0.4245	0.2795
45	TAF130224	0.2744	0.1764

#	Name	Abs Diff	%Diff
46	EMPTY	0.0092	0.0241
47	EMPTY	0.0322	0.0811
48	TAI130048	0.6985	0.3877
49	TAI130136	0.1014	0.0507
50	TAI130224	0.6502	0.3632
51	TAI130312	0.2293	0.1277
52	TRR130000	1.8604	1.5221
53	TSI000001	0.0623	0.0938
54	TSI000002	0.1625	0.1534
55	TSO000001	0.0063	0.0095
56	TSO000002	0.1207	0.1596
57	TAF020136	0.8421	0.8684
58	TAF120312	0.8218	0.5723
59	TAF130312	0.7156	0.4698
60	EMPTY	0.0198	1.0663
61	EMPTY	0.0200	1.0761
62	EMPTY	0.0195	1.0491
63	EMPTY	0.0191	1.0240
64	EMPTY	0.0091	0.9084
65	EMPTY	0.0092	0.8986
66	EMPTY	0.0091	0.8764
67	EMPTY	0.0081	0.7678
68	EMPTY	0.0095	0.8886
69	EMPTY	0.0097	0.8948
70	EMPTY	0.0096	0.8741
71	EMPTY	0.0094	0.8408
72	EMPTY	0.0097	0.8569
73	EMPTY	0.0096	0.8351
74	EMPTY	0.0087	0.7479
75	EMPTY	0.0098	0.8295
76	EMPTY	0.0095	0.7964
77	EMPTY	0.0099	0.8174
78	EMPTY	0.0095	0.7717
79	EMPTY	0.0080	0.6396
80	PAN020136	0.2197	1.5786
81	PAN050136	0.6653	4.9783
82	PAN070136	1.5427	54.5471
83	PAN080136	2.1012	34.4092
84	PAN090136	2.6810	213.3705
85	PAN100136	2.0691	104.6586
86	PAN105136	0.8911	43.4386
87	PAN110136	0.4746	9.8557
88	PAN115136	1.2680	26.4928
89	PAN120136	0.1785	2.8803
90	PAN125136	0.3372	25.2944
91	PAN130136	0.3052	16.1713
92	PAN120048	0.1328	6.3226
93	PAN130048	0.4623	4.2948
94	PAN120224	0.9537	94.9522
95	PAN130224	1.2543	12.8839
96	PAN120312	0.0671	59.3805
97	PAN130312	0.0382	0.5219
98	PAB000136	0.0348	0.0867
99	PAB100136	0.0119	0.0309
100	PAB125136	0.0347	0.0914

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0269	0.0671
102	PRV000001	0.0464	0.2339
103	PSR000001	0.0098	0.0266
104	PFM000001	0.2033	0.6775
105	PAN000136	0.4395	0.7271
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0006	8.6957
108	EMPTY	0.3125	3.1492
109	EMPTY	0.0003	5.7692
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0820	0.0438
113	VPW000002	0.0391	0.0191
114	VPW000003	0.0508	0.0303
115	VPW000004	0.0313	0.0223
116	VPW000005	0.0117	0.0076
117	VPW000006	0.0586	0.0257
118	IPW000001	1.2100	0.0806
119	IPW000002	4.4879	0.3996
120	IPW000003	0.3511	0.0380
121	IPW000004	4.8828	0.6543
122	IPW000005	0.9668	0.1160
123	IPW000006	0.6837	0.1135
124	EMPTY	0.0020	9.6618
125	EMPTY	0.0006	4.4444
126	EMPTY	0.0019	11.5151
127	EMPTY	0.0017	11.2583
128	IHT000001	0.2188	0.1218
129	IHT000002	0.1758	0.0952
130	IHT000003	0.2696	0.1454
131	IHT000004	0.1211	0.0602
132	IHT000005	0.1133	0.0571
133	IHT000006	0.1289	0.0669
134	IHT000007	0.2851	0.1561
135	IHT000008	0.2930	0.1621
136	IHT000009	0.3984	0.2193
137	IHT000010	0.1758	0.1047
138	IHT000011	0.1602	0.0969
139	IHT000012	0.1328	0.0817
140	IHT000013	0.2109	0.1573
141	IHT000014	0.1953	0.1139
142	IHT000015	0.2383	0.1717
143	IHT000016	0.2266	0.1850
144	IHT000017	1.2304	0.8268
145	IHT000018	0.4219	0.2791
146	IHT000019	0.2890	0.1786
147	IHT000020	0.3204	0.1917
148	IHT000021	0.3985	30.7247
149	IHT000022	0.3321	0.2406
150	IHT000023	0.3203	0.1956
151	IHT000024	0.3594	0.2787
152	IHT000025	0.1758	0.1200
153	IHT000026	0.2500	0.1684
154	IHT000027	0.1016	0.0817
155	IHT000028	0.1797	0.1423

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1953	0.1321
157	IHT000030	0.2344	0.1556
158	IHT000031	0.2656	0.1968
159	IHT000032	0.2890	0.2113
160	IHT000033	0.2890	0.2114
161	IHT000034	0.1133	0.0898
162	IHT000035	0.1367	0.0823
163	IHT000036	0.1367	0.1098

Velocity 1 = 12.0911 (ft/sec) (+/- 2.0110 %)
Velocity 2 = 12.0819 (ft/sec) (+/- 1.7196 %)
Pressure drop = 0.3462 (psi)
Tsats in = 267.4220 (deg F) Tsats out = 266.8816 (deg F)
Phi inner = 197.1104 (kBtu/hr-ft2) (+/- 1.3853 %)
Phi outer = 201.0440 (kBtu/hr-ft2) (+/- 1.3006 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.1558	82.5798	82.3678	1.6586e-01	1.9001e+00
1	TRF000002	82.6455	83.0671	82.7972	1.2805e-01	1.9001e+00
2	TFM000001	86.0969	86.7280	86.4376	1.6655e-01	1.9002e+00
3	TIN000001	85.4262	85.9534	85.7089	1.3203e-01	1.9002e+00
4	TRV000001	86.6979	87.4325	87.0084	1.8086e-01	1.9002e+00
5	TSR000001	128.2725	130.9031	129.3983	6.3395e-01	1.9024e+00
6	TAO020136	54.0011	55.7303	54.8141	4.9373e-01	1.9002e+00
7	TAO050136	172.9140	175.2620	173.7871	5.9678e-01	1.9072e+00
8	TAO070136	167.9710	171.8322	169.1083	9.2204e-01	1.9066e+00
9	TAO080136	133.8324	134.9418	134.2478	2.8907e-01	1.9028e+00
10	TAO090136	205.8512	207.1950	206.2355	3.1259e-01	1.9125e+00
11	TAO100136	199.1637	201.9591	200.0164	6.0268e-01	1.9114e+00
12	TAO105136	202.7068	205.0209	203.4478	5.3298e-01	1.9120e+00
13	TAO110136	212.5693	214.3725	213.2648	4.1580e-01	1.9138e+00
14	TAO115136	205.1571	206.8898	205.8194	3.4166e-01	1.9124e+00
15	TAO120136	219.9783	221.5014	220.4998	3.3069e-01	1.9152e+00
16	TAO125136	149.3406	150.7372	149.9826	3.2980e-01	1.9043e+00
17	TAO130136	212.4857	213.8091	212.9715	2.8962e-01	1.9137e+00
18	TAO120048	104.4333	105.7797	105.0921	3.0069e-01	1.9008e+00
19	TAO130048	198.6409	199.9878	199.0694	2.5817e-01	1.9112e+00
20	TAO120224	204.4932	206.0321	205.0977	2.9542e-01	1.9123e+00
21	TAO130224	193.0123	196.0833	193.7773	5.6272e-01	1.9103e+00
22	TAO120312	190.3392	192.3815	191.4055	4.6649e-01	1.9099e+00
23	TAO130312	189.8738	190.6501	190.1617	1.7543e-01	1.9097e+00
24	TRT020000	157.3950	158.6915	158.1254	2.8742e-01	1.9052e+00
25	TRT070000	177.3452	178.5291	177.9296	2.4876e-01	1.9078e+00
26	TRT100000	192.2914	193.5495	192.8918	2.6313e-01	1.9101e+00
27	TRT120000	196.1625	197.6116	196.9245	2.9595e-01	1.9108e+00
28	TRT125000	96.1076	96.7328	96.4532	1.5642e-01	1.9005e+00
29	TRT130000	192.6039	193.3800	192.9532	1.9107e-01	1.9102e+00
30	EMPTY	39.6057	40.0646	39.8214	1.7600e-01	1.9011e+00
31	TAF050136	120.6788	122.2070	121.3762	3.8857e-01	1.9018e+00
32	TAF070136	136.3928	138.4043	137.4268	4.3114e-01	1.9031e+00
33	TAF080136	195.4239	199.5503	196.3092	7.3619e-01	1.9107e+00
34	TAF090136	93.0490	94.0943	93.5425	2.6699e-01	1.9004e+00
35	TAF100136	156.8542	158.7485	157.8875	4.5072e-01	1.9052e+00
36	TAF105136	160.6680	162.6375	161.7040	3.9437e-01	1.9057e+00
37	TAF110136	165.0541	166.6293	165.6842	3.5222e-01	1.9062e+00
38	TAF115136	169.5499	171.0262	170.3099	2.5064e-01	1.9068e+00
39	TAF120136	192.5712	195.7563	193.8387	6.9736e-01	1.9103e+00
40	TAF125136	176.6634	178.7046	177.6475	4.1803e-01	1.9078e+00
41	TAF130136	179.9045	181.2713	180.5104	2.7265e-01	1.9082e+00
42	TAF120048	158.5913	160.4895	159.6588	3.8383e-01	1.9054e+00
43	TAF130048	165.5630	166.7477	166.2194	2.7716e-01	1.9062e+00
44	TAF120224	160.5519	161.8410	161.3135	3.1294e-01	1.9056e+00
45	TAF130224	165.4639	166.4573	165.9091	1.9881e-01	1.9062e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1767	2.1432e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.7204	1.3320e-01	1.9011e+00
48	TAI130048	192.0055	193.4615	192.8210	4.2263e-01	1.9101e+00
49	TAI130136	214.8312	215.8807	215.3922	2.4862e-01	1.9142e+00
50	TAI130224	189.9284	191.4867	190.7114	3.3276e-01	1.9098e+00
51	TAI130312	191.9186	193.0846	192.5174	2.5925e-01	1.9101e+00
52	TRR130000	127.0880	128.6094	127.8024	3.6522e-01	1.9022e+00
53	TSI000001	66.2575	66.8977	66.5824	1.5557e-01	1.9000e+00
54	TSI000002	106.0694	108.4416	107.3570	6.0329e-01	1.9009e+00
55	TSO000001	65.6691	66.5276	66.0596	1.9238e-01	1.9000e+00
56	TSO000002	75.9665	76.9213	76.4545	2.2273e-01	1.9000e+00
57	TAF020136	96.6127	98.7100	97.4775	4.5560e-01	1.9005e+00
58	TAF120312	150.4191	152.1169	151.3977	4.1457e-01	1.9045e+00
59	TAF130312	160.5182	162.4995	161.1689	3.1209e-01	1.9056e+00
60	EMPTY	2.0605	2.0752	2.0657	4.1161e-03	0.0000e+00
61	EMPTY	2.0557	2.0703	2.0646	3.6057e-03	0.0000e+00
62	EMPTY	2.0605	2.0703	2.0636	2.5894e-03	0.0000e+00
63	EMPTY	2.0605	2.0703	2.0681	2.8266e-03	0.0000e+00
64	EMPTY	1.0889	1.0938	1.0892	1.1714e-03	0.0000e+00
65	EMPTY	1.1084	1.1133	1.1102	2.3675e-03	0.0000e+00
66	EMPTY	1.1230	1.1279	1.1239	1.8950e-03	0.0000e+00
67	EMPTY	1.1426	1.1426	1.1426	0.0000e+00	0.0000e+00
68	EMPTY	1.1523	1.1572	1.1527	1.3381e-03	0.0000e+00
69	EMPTY	1.1670	1.1719	1.1683	2.1635e-03	0.0000e+00
70	EMPTY	1.1768	1.1816	1.1815	6.9053e-04	0.0000e+00
71	EMPTY	1.2012	1.2061	1.2014	9.6655e-04	0.0000e+00
72	EMPTY	1.2109	1.2158	1.2137	2.4484e-03	0.0000e+00
73	EMPTY	1.2305	1.2354	1.2307	9.6655e-04	0.0000e+00
74	EMPTY	1.2451	1.2451	1.2451	0.0000e+00	0.0000e+00
75	EMPTY	1.2598	1.2646	1.2605	1.8082e-03	0.0000e+00
76	EMPTY	1.2744	1.2793	1.2745	6.9053e-04	0.0000e+00
77	EMPTY	1.2891	1.3086	1.2896	2.8334e-03	0.0000e+00
78	EMPTY	1.3086	1.3135	1.3094	1.8082e-03	0.0000e+00
79	EMPTY	1.3281	1.3379	1.3306	2.6562e-03	0.0000e+00
80	PAN020136	-2.2799	14.4285	6.2345	4.6861e+00	8.7014e-01
81	PAN050136	-7.5863	12.2501	3.0033	4.2908e+00	1.6800e+00
82	PAN070136	-13.2103	8.4572	-3.4691	6.7466e+00	8.7004e-01
83	PAN080136	-13.8795	14.1204	-0.8592	6.0673e+00	8.7000e-01
84	PAN090136	-13.0990	17.1134	-1.4138	6.7487e+00	8.7001e-01
85	PAN100136	-12.1145	12.3759	-0.3133	6.6332e+00	8.7000e-01
86	PAN105136	-7.7020	12.2870	0.8368	5.8312e+00	8.7000e-01
87	PAN110136	-7.0696	12.8432	2.5984	5.1247e+00	8.7002e-01
88	PAN115136	-7.5597	9.8354	0.0453	4.2034e+00	8.7000e-01
89	PAN120136	-6.6720	12.4778	3.6171	3.8061e+00	8.7005e-01
90	PAN125136	-6.0323	3.8859	-1.9765	2.9621e+00	8.7001e-01
91	PAN130136	-3.0230	7.6581	2.9081	2.2435e+00	8.7003e-01
92	PAN120048	-12.0293	4.5264	-6.5575	4.4181e+00	8.7015e-01
93	PAN130048	-2.7992	16.2743	6.9969	4.2685e+00	8.7018e-01
94	PAN120224	-9.8477	13.2694	-1.0510	5.3827e+00	8.7000e-01
95	PAN130224	-5.8759	12.5872	5.6537	3.7000e+00	8.7011e-01
96	PAN120312	-9.4529	0.8468	-4.2848	2.2299e+00	8.7007e-01
97	PAN130312	0.9215	6.8724	3.8527	1.8121e+00	8.7005e-01
98	PAB000136	39.5872	40.5027	40.0358	2.4953e-01	5.8857e-01
99	PAB100136	39.4525	40.0934	39.8169	1.7522e-01	5.8848e-01
100	PAB125136	39.3099	39.9966	39.6743	1.2578e-01	5.8842e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.1042	40.5690	39.8830	4.5601e-01	7.5660e-01
102	PRV0000001	19.8406	19.9627	19.9090	6.1209e-02	7.5165e-01
103	PSR0000001	38.5900	38.8341	38.7560	6.8700e-02	7.5623e-01
104	PFM0000001	21.8740	22.7896	22.3648	1.7426e-01	5.0312e-01
105	PAN000136	-2.7022	23.8481	9.5842	7.9912e+00	4.9201e+00
106	PFM0000002	22.1154	22.5014	22.3306	1.0292e-01	2.0765e-01
107	EMPTY	-0.0049	0.0098	0.0049	1.7086e-03	0.0000e+00
108	EMPTY	-10.0000	-9.8926	-9.9979	1.5192e-02	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0051	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	VPW0000001	187.0343	187.4249	187.1904	1.3087e-01	1.3848e+00
113	VPW0000002	204.9955	205.3861	205.1947	1.0799e-01	1.4737e+00
114	VPW0000003	166.8720	167.6532	167.4619	1.4493e-01	1.2906e+00
115	VPW0000004	140.0052	140.7865	140.5366	1.3692e-01	1.1692e+00
116	VPW0000005	153.2001	153.5907	153.4424	1.2823e-01	1.2263e+00
117	VPW0000006	227.5053	228.0912	227.8021	1.1995e-01	1.5888e+00
118	IPW0000001	1504.9567	1508.8613	1507.6508	1.2404e+00	1.4404e+01
119	IPW0000002	1103.7056	1111.5106	1107.4131	1.4350e+00	1.1923e+01
120	IPW0000003	902.8875	908.7375	905.3834	1.3090e+00	1.0806e+01
121	IPW0000004	751.0798	753.0329	752.0856	4.1161e-01	6.2691e+00
122	IPW0000005	824.6340	825.6104	825.2394	2.8858e-01	6.8193e+00
123	IPW0000006	598.0224	599.4872	598.8716	3.3901e-01	5.1365e+00
124	EMPTY	-0.0244	-0.0098	-0.0184	4.0144e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0134	3.0897e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0144	3.0261e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0172	3.5895e-03	0.0000e+00
128	INT0000001	178.1400	181.4603	179.5307	6.5867e-01	4.4758e+00
129	INT0000002	182.9890	186.1140	184.5009	6.4333e-01	4.4960e+00
130	INT0000003	184.2886	187.0230	185.5269	6.0181e-01	4.5002e+00
131	INT0000004	200.1915	202.7306	201.2696	6.3041e-01	4.5674e+00
132	INT0000005	197.4797	200.0188	198.6124	6.1889e-01	4.5557e+00
133	INT0000006	191.6729	193.8214	192.7588	6.0381e-01	4.5305e+00
134	INT0000007	181.4040	183.7477	182.6188	5.8831e-01	4.4883e+00
135	INT0000008	179.5973	181.7458	180.8278	5.4283e-01	4.4811e+00
136	INT0000009	180.6565	183.1956	181.7347	5.5557e-01	4.4847e+00
137	INT0000010	166.5189	169.4486	167.9331	6.7377e-01	4.4306e+00
138	INT0000011	163.6118	166.9321	165.2251	6.5294e-01	4.4204e+00
139	INT0000012	160.6633	164.1790	162.3898	7.1394e-01	4.4099e+00
140	INT0000013	132.5083	135.6333	134.1255	6.6268e-01	4.3138e+00
141	INT0000014	169.9181	173.2384	171.5157	7.0110e-01	4.4443e+00
142	INT0000015	137.2446	140.3696	138.8462	6.5791e-01	4.3287e+00
143	INT0000016	120.9848	124.1098	122.5278	6.4386e-01	4.2792e+00
144	INT0000017	147.9267	151.8329	149.5986	7.3943e-01	4.3644e+00
145	INT0000018	149.5869	153.1025	151.2510	7.7849e-01	4.3701e+00
146	INT0000019	160.8323	163.3714	161.9418	5.9639e-01	4.4082e+00
147	INT0000020	166.1959	168.5396	167.1490	5.8745e-01	4.4276e+00
148	INT0000021	-2.6330	0.2967	-1.1603	6.8710e-01	4.1000e+00
149	INT0000022	137.0230	139.3667	138.1128	5.0700e-01	4.3264e+00
150	INT0000023	162.6878	164.8363	163.7426	4.8327e-01	4.4149e+00
151	INT0000024	127.9334	129.8866	128.8983	4.3479e-01	4.2978e+00
152	INT0000025	145.5116	147.8553	146.5702	4.8663e-01	4.3541e+00
153	INT0000026	147.2656	149.8047	148.4961	5.2977e-01	4.3606e+00
154	INT0000027	123.1783	125.5221	124.3892	5.6909e-01	4.2845e+00
155	INT0000028	125.1427	127.8771	126.3966	5.6647e-01	4.2904e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.9989	149.5380	148.0146	5.6497e-01	4.3590e+00
157	IHT000030	149.5643	152.4940	150.7636	6.1004e-01	4.3684e+00
158	IHT000031	133.8266	136.7563	135.1001	5.6805e-01	4.3169e+00
159	IHT000032	135.8323	138.7620	136.9183	5.8148e-01	4.3226e+00
160	IHT000033	135.8173	138.7470	136.8759	5.7058e-01	4.3224e+00
161	IHT000034	125.1615	127.1146	126.0952	4.1999e-01	4.2895e+00
162	IHT000035	165.4259	167.3790	166.1446	4.3484e-01	4.4238e+00
163	IHT000036	123.6666	125.6197	124.4673	3.8913e-01	4.2848e+00

Velocity 1 = 12.0891 (ft/sec) (+/- 2.0112 %)
Velocity 2 = 12.0718 (ft/sec) (+/- 1.7197 %)
Pressure drop = 0.3518 (psi)
Tsat in = 267.5010 (deg F) Tsat out = 266.9749 (deg F)
Phi inner = 198.6367 (kBtu/hr-ft2) (+/- 1.3810 %)
Phi outer = 202.0015 (kBtu/hr-ft2) (+/- 1.2995 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	82.1558	82.7917	82.5077	1.9440e-01	1.9001e+00
1	TRF0000002	82.6455	83.2778	82.9195	1.4904e-01	1.9001e+00
2	TFM0000001	86.4125	87.3569	86.8243	1.9420e-01	1.9002e+00
3	TIN0000001	85.8475	86.4801	86.1134	1.5387e-01	1.9002e+00
4	TRV0000001	87.0113	87.7471	87.3858	1.7881e-01	1.9002e+00
5	TSR0000001	131.2076	133.0237	132.2563	4.4131e-01	1.9026e+00
6	TAO020136	55.1900	57.6728	56.3910	6.5767e-01	1.9001e+00
7	TAO050136	172.8173	175.0667	174.0033	5.6646e-01	1.9073e+00
8	TAO070136	168.4659	172.4254	169.4410	7.9512e-01	1.9067e+00
9	TAO080136	133.8324	135.2428	134.2047	2.5777e-01	1.9028e+00
10	TAO090136	205.9469	207.4832	206.5200	3.3017e-01	1.9125e+00
11	TAO100136	199.4536	202.0555	200.6105	6.3065e-01	1.9115e+00
12	TAO105136	203.0929	205.2145	203.6641	4.4242e-01	1.9120e+00
13	TAO110136	212.5693	214.0895	213.2927	3.5546e-01	1.9138e+00
14	TAO115136	205.2533	207.9479	206.0891	5.1610e-01	1.9124e+00
15	TAO120136	220.2636	221.5971	220.7401	2.7949e-01	1.9152e+00
16	TAO125136	149.1394	150.4387	149.7676	2.5601e-01	1.9043e+00
17	TAO130136	212.7701	214.5629	213.2941	3.5451e-01	1.9138e+00
18	TAO120048	104.7444	105.7802	105.2746	3.0642e-01	1.9008e+00
19	TAO130048	198.8347	200.7594	199.4896	4.1972e-01	1.9113e+00
20	TAO120224	204.9753	205.9366	205.4481	2.1967e-01	1.9123e+00
21	TAO130224	193.3013	195.7989	194.0861	4.5813e-01	1.9103e+00
22	TAO120312	190.8263	192.6731	191.6468	5.0155e-01	1.9099e+00
23	TAO130312	190.0692	191.0387	190.5345	2.2348e-01	1.9098e+00
24	TRT020000	157.6945	158.8914	158.4006	2.7023e-01	1.9053e+00
25	TRT070000	177.5427	178.9230	178.2290	3.1490e-01	1.9079e+00
26	TRT100000	192.6783	193.6481	193.1711	2.5033e-01	1.9102e+00
27	TRT120000	196.3558	197.9035	197.0294	3.4060e-01	1.9108e+00
28	TRT125000	94.5532	95.6969	95.0325	2.2649e-01	1.9004e+00
29	TRT130000	192.9920	193.7673	193.2944	1.6926e-01	1.9102e+00
30	EMPTY	39.3761	40.2940	39.8214	2.2907e-01	1.9011e+00
31	TAF050136	120.7816	122.7180	121.7680	4.1633e-01	1.9018e+00
32	TAF070136	136.4955	138.4043	137.7331	3.8865e-01	1.9031e+00
33	TAF080136	195.5228	201.5620	196.7020	1.0141e+00	1.9108e+00
34	TAF090136	92.2134	93.2599	92.8622	2.6789e-01	1.9004e+00
35	TAF100136	156.9549	159.0475	158.2822	4.9580e-01	1.9052e+00
36	TAF105136	161.0616	162.8358	162.0004	4.1864e-01	1.9057e+00
37	TAF110136	165.2497	166.7287	166.0119	3.9526e-01	1.9062e+00
38	TAF115136	169.9433	171.1252	170.5308	3.0153e-01	1.9068e+00
39	TAF120136	193.3449	195.7563	194.3722	5.8516e-01	1.9104e+00
40	TAF125136	177.2471	179.1912	178.0183	4.6613e-01	1.9078e+00
41	TAF130136	180.0998	181.6624	180.8546	3.5890e-01	1.9083e+00
42	TAF120048	159.2908	160.6899	160.0622	2.6558e-01	1.9055e+00
43	TAF130048	165.8607	167.3413	166.5476	2.9452e-01	1.9063e+00
44	TAF120224	161.2460	162.1381	161.6784	2.1154e-01	1.9057e+00
45	TAF130224	165.6626	166.6555	166.1791	2.0163e-01	1.9062e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1583	2.0380e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6562	1.0666e-01	1.9011e+00
48	TAI130048	192.5877	194.1400	193.3295	3.7638e-01	1.9102e+00
49	TAI130136	215.1178	216.4529	215.8271	2.6635e-01	1.9143e+00
50	TAI130224	190.4158	191.5844	190.9997	2.5954e-01	1.9098e+00
51	TAI130312	192.1137	193.5702	192.8012	2.6394e-01	1.9101e+00
52	TRR130000	126.9891	128.6094	127.8438	4.4064e-01	1.9023e+00
53	TSI000001	66.1518	67.1124	66.6087	1.8689e-01	1.9000e+00
54	TSI000002	105.0386	108.3395	106.4999	8.3992e-01	1.9009e+00
55	TSO000001	65.6680	66.6344	66.0507	2.0808e-01	1.9000e+00
56	TSO000002	76.0735	76.9212	76.5057	2.1300e-01	1.9000e+00
57	TAF020136	96.7178	99.0236	97.7245	4.5616e-01	1.9005e+00
58	TAF120312	151.0182	152.4174	151.6219	4.0660e-01	1.9045e+00
59	TAF130312	160.9149	162.6973	161.5259	3.4390e-01	1.9056e+00
60	EMPTY	2.0654	2.0850	2.0713	5.4032e-03	0.0000e+00
61	EMPTY	2.0654	2.0801	2.0713	4.3000e-03	0.0000e+00
62	EMPTY	2.0654	2.0752	2.0695	3.1752e-03	0.0000e+00
63	EMPTY	2.0703	2.0801	2.0747	3.1583e-03	0.0000e+00
64	EMPTY	1.0889	1.0986	1.0942	2.2603e-03	0.0000e+00
65	EMPTY	1.1084	1.1182	1.1147	2.4662e-03	0.0000e+00
66	EMPTY	1.1279	1.1328	1.1288	1.8950e-03	0.0000e+00
67	EMPTY	1.1426	1.1475	1.1461	2.2146e-03	0.0000e+00
68	EMPTY	1.1523	1.1621	1.1570	1.9631e-03	0.0000e+00
69	EMPTY	1.1719	1.1768	1.1732	2.2146e-03	0.0000e+00
70	EMPTY	1.1816	1.1914	1.1862	1.5314e-03	0.0000e+00
71	EMPTY	1.2061	1.2109	1.2062	9.6655e-04	0.0000e+00
72	EMPTY	1.2158	1.2207	1.2173	2.2603e-03	0.0000e+00
73	EMPTY	1.2354	1.2402	1.2354	6.9053e-04	0.0000e+00
74	EMPTY	1.2451	1.2500	1.2491	1.8950e-03	0.0000e+00
75	EMPTY	1.2549	1.2695	1.2646	1.7086e-03	0.0000e+00
76	EMPTY	1.2744	1.2793	1.2771	2.4484e-03	0.0000e+00
77	EMPTY	1.2891	1.2988	1.2939	9.8648e-04	0.0000e+00
78	EMPTY	1.3086	1.3184	1.3138	1.5314e-03	0.0000e+00
79	EMPTY	1.3330	1.3379	1.3333	1.1714e-03	0.0000e+00
80	PAN020136	-6.7812	17.4039	4.6537	5.4969e+00	8.7008e-01
81	PAN050136	-8.0441	11.4872	2.8843	5.2025e+00	1.6800e+00
82	PAN070136	-12.8288	8.6861	-5.2742	5.8032e+00	8.7010e-01
83	PAN080136	-12.8877	13.4337	-0.6211	5.5604e+00	8.7000e-01
84	PAN090136	-13.1753	14.8246	-1.1742	5.9863e+00	8.7000e-01
85	PAN100136	-12.1908	13.6729	1.4460	6.4379e+00	8.7001e-01
86	PAN105136	-7.6257	6.0309	0.0128	3.6451e+00	8.7000e-01
87	PAN110136	-7.2222	13.8350	2.1590	3.7300e+00	8.7002e-01
88	PAN115136	-6.0338	8.3095	1.3255	3.4752e+00	8.7001e-01
89	PAN120136	-4.9172	10.2653	3.3302	3.9280e+00	8.7004e-01
90	PAN125136	-6.0323	4.8777	-1.0061	3.2625e+00	8.7000e-01
91	PAN130136	-4.7778	6.5900	1.0816	2.7337e+00	8.7000e-01
92	PAN120048	-12.0293	2.9243	-7.5936	3.6848e+00	8.7021e-01
93	PAN130048	-1.2733	16.5032	9.8656	3.5018e+00	8.7035e-01
94	PAN120224	-10.6869	7.0133	-2.1527	4.4493e+00	8.7002e-01
95	PAN130224	-2.1375	11.3665	6.8103	2.8595e+00	8.7017e-01
96	PAN120312	-8.3848	-0.2214	-4.3595	2.1036e+00	8.7007e-01
97	PAN130312	1.2267	7.4828	4.2861	2.0425e+00	8.7007e-01
98	PAB000136	39.6330	40.5943	40.0889	2.6190e-01	5.8860e-01
99	PAB100136	39.5441	40.1392	39.8865	1.6883e-01	5.8851e-01
100	PAB125136	39.5846	40.0881	39.7366	1.1230e-01	5.8845e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.1042	40.6911	40.0442	4.4885e-01	7.5665e-01
102	PRV000001	19.8406	19.9627	19.8724	5.4088e-02	7.5164e-01
103	PSR000001	38.7120	38.9562	38.8488	5.8569e-02	7.5626e-01
104	PFM000001	21.8740	22.7896	22.3556	1.9471e-01	5.0311e-01
105	PAN000136	-4.0755	25.2214	9.7398	8.2681e+00	4.9201e+00
106	PFM000002	21.9812	22.4678	22.2913	1.0897e-01	2.0762e-01
107	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-8.7793	-9.9652	1.8613e-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	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	187.0343	187.4249	187.2178	1.2104e-01	1.3849e+00
113	VPW000002	204.9955	205.3861	205.1986	9.6332e-02	1.4737e+00
114	VPW000003	167.2626	168.0439	167.7470	1.6852e-01	1.2919e+00
115	VPW000004	140.3959	140.7865	140.6694	1.0440e-01	1.1698e+00
116	VPW000005	153.2001	153.5907	153.4775	1.0507e-01	1.2264e+00
117	VPW000006	227.7006	228.0912	227.8568	9.6655e-02	1.5891e+00
118	IPW000001	1495.1949	1503.0043	1500.0370	2.1690e+00	1.4354e+01
119	IPW000002	1117.3645	1131.0233	1123.6084	3.9224e+00	1.2017e+01
120	IPW000003	918.4875	924.3375	922.5824	1.4872e+00	1.0896e+01
121	IPW000004	745.7087	747.1735	746.5485	3.8257e-01	6.2276e+00
122	IPW000005	831.9575	833.4221	832.7579	3.6588e-01	6.8761e+00
123	IPW000006	598.9990	603.3935	601.7036	1.4337e+00	5.1571e+00
124	EMPTY	-0.0293	-0.0098	-0.0195	3.8206e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.7213e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0156	3.5568e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	3.4173e-03	0.0000e+00
128	IHT000001	178.3353	181.2650	179.5854	6.8459e-01	4.4761e+00
129	IHT000002	183.3797	186.1140	184.5868	6.8081e-01	4.4964e+00
130	IHT000003	184.4839	187.0230	185.6675	6.6076e-01	4.5008e+00
131	IHT000004	200.1915	202.5353	201.3165	6.6446e-01	4.5676e+00
132	IHT000005	197.4797	199.8235	198.6280	6.2595e-01	4.5558e+00
133	IHT000006	191.6729	194.2120	192.8135	6.1683e-01	4.5308e+00
134	IHT000007	181.2087	183.9431	182.6735	6.2046e-01	4.4885e+00
135	IHT000008	179.4020	182.1364	180.8942	5.9025e-01	4.4813e+00
136	IHT000009	180.4612	183.1956	181.7855	5.9750e-01	4.4849e+00
137	IHT000010	167.1049	169.8392	168.2143	6.1440e-01	4.4317e+00
138	IHT000011	164.5884	167.3227	165.4165	5.8999e-01	4.4211e+00
139	IHT000012	161.4446	164.5696	162.5304	6.1783e-01	4.4104e+00
140	IHT000013	133.2895	136.2192	134.2466	6.1289e-01	4.3142e+00
141	IHT000014	170.6994	173.2384	171.5938	5.6094e-01	4.4446e+00
142	IHT000015	137.8305	140.7602	138.8970	5.5413e-01	4.3289e+00
143	IHT000016	121.7661	124.5005	122.6528	5.1177e-01	4.2795e+00
144	IHT000017	148.1220	150.6611	149.3525	6.1034e-01	4.3636e+00
145	IHT000018	150.5634	152.7119	151.5205	5.3561e-01	4.3710e+00
146	IHT000019	160.2464	162.5901	161.6801	5.2141e-01	4.4073e+00
147	IHT000020	165.4146	167.9537	166.7623	5.0107e-01	4.4262e+00
148	IHT000021	-3.8049	-0.6798	-1.7033	7.0758e-01	4.1000e+00
149	IHT000022	136.0464	138.5855	137.5464	5.2562e-01	4.3246e+00
150	IHT000023	162.1019	164.4456	163.3715	5.4140e-01	4.4135e+00
151	IHT000024	127.3475	129.4959	128.5428	5.0938e-01	4.2968e+00
152	IHT000025	145.3163	147.4647	146.4374	5.0503e-01	4.3537e+00
153	IHT000026	147.2656	149.4141	148.3125	4.3001e-01	4.3600e+00
154	IHT000027	122.9830	125.3268	124.2095	4.9448e-01	4.2840e+00
155	IHT000028	124.5568	128.0724	126.4396	7.8001e-01	4.2905e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.4130	149.9286	148.1591	7.6046e-01	4.3595e+00
157	IHT000030	149.3690	152.8846	150.8964	8.0063e-01	4.3689e+00
158	IHT000031	133.6313	136.9516	135.0610	7.6660e-01	4.3167e+00
159	IHT000032	135.4417	139.1526	136.8988	8.0598e-01	4.3225e+00
160	IHT000033	135.4267	139.1376	136.8447	7.7806e-01	4.3223e+00
161	IHT000034	125.1615	127.7006	126.2671	6.0568e-01	4.2900e+00
162	IHT000035	164.8400	167.5744	166.2384	6.2185e-01	4.4242e+00
163	IHT000036	123.4713	126.0104	124.6665	5.9141e-01	4.2853e+00

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Velocity 1 = 0.002000 (ft/sec)

Velocity 2 = 0.010099 (ft/sec)

Pressure Drop = 0.005600 (psi)

Tsat in = 0.079010 (deg F) Tsat out = 0.093323 (deg F)

Phi inner = 1.526306 (kBtu/hr-ft2) Phi outer = 0.957489 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1399	0.1698
1	TRF000002	0.1223	0.1477
2	TFM000001	0.3867	0.4474
3	TIN000001	0.4045	0.4719
4	TRV000001	0.3774	0.4338
5	TSR000001	2.8580	2.2087
6	TAO020136	1.5769	2.8768
7	TAO050136	0.2162	0.1244
8	TAO070136	0.3327	0.1967
9	TAO080136	0.0431	0.0321
10	TAO090136	0.2845	0.1379
11	TAO100136	0.5941	0.2970
12	TAO105136	0.2163	0.1063
13	TAO110136	0.0279	0.0131
14	TAO115136	0.2697	0.1310
15	TAO120136	0.2403	0.1090
16	TAO125136	0.2150	0.1434
17	TAO130136	0.3226	0.1515
18	TAO120048	0.1825	0.1737
19	TAO130048	0.4202	0.2111
20	TAO120224	0.3504	0.1708
21	TAO130224	0.3088	0.1594
22	TAO120312	0.2413	0.1261
23	TAO130312	0.3728	0.1960
24	TRT020000	0.2752	0.1740
25	TRT070000	0.2994	0.1683
26	TRT100000	0.2793	0.1448
27	TRT120000	0.1049	0.0533
28	TRT125000	1.4207	1.4729
29	TRT130000	0.3412	0.1768
30	EMPTY	0.0000	0.0000
31	TAF050136	0.3918	0.3228
32	TAF070136	0.3063	0.2229
33	TAF080136	0.3928	0.2001
34	TAF090136	0.6803	0.7273
35	TAF100136	0.3947	0.2500
36	TAF105136	0.2964	0.1833
37	TAF110136	0.3277	0.1978
38	TAF115136	0.2209	0.1297
39	TAF120136	0.5335	0.2752
40	TAF125136	0.3708	0.2087
41	TAF130136	0.3442	0.1907
42	TAF120048	0.4034	0.2527
43	TAF130048	0.3282	0.1975
44	TAF120224	0.3649	0.2262
45	TAF130224	0.2700	0.1627

#	Name	Abs Diff	%Diff
46	EMPTY	0.0184	0.0482
47	EMPTY	0.0642	0.1616
48	TAI130048	0.5085	0.2637
49	TAI130136	0.4349	0.2019
50	TAI130224	0.2883	0.1512
51	TAI130312	0.2838	0.1474
52	TRR130000	0.0414	0.0324
53	TSI000001	0.0263	0.0395
54	TSI000002	0.8571	0.7984
55	TSO000001	0.0089	0.0135
56	TSO000002	0.0512	0.0670
57	TAF020136	0.2470	0.2534
58	TAF120312	0.2242	0.1481
59	TAF130312	0.3570	0.2215
60	EMPTY	0.0056	0.2711
61	EMPTY	0.0067	0.3245
62	EMPTY	0.0059	0.2859
63	EMPTY	0.0066	0.3191
64	EMPTY	0.0050	0.4591
65	EMPTY	0.0045	0.4053
66	EMPTY	0.0049	0.4360
67	EMPTY	0.0035	0.3063
68	EMPTY	0.0043	0.3730
69	EMPTY	0.0049	0.4194
70	EMPTY	0.0047	0.3978
71	EMPTY	0.0048	0.3995
72	EMPTY	0.0036	0.2966
73	EMPTY	0.0047	0.3819
74	EMPTY	0.0040	0.3213
75	EMPTY	0.0041	0.3253
76	EMPTY	0.0026	0.2040
77	EMPTY	0.0043	0.3334
78	EMPTY	0.0044	0.3360
79	EMPTY	0.0027	0.2029
80	PAN020136	1.5808	25.3557
81	PAN050136	0.1190	3.9623
82	PAN070136	1.8051	52.0337
83	PAN080136	0.2381	27.7118
84	PAN090136	0.2396	16.9472
85	PAN100136	1.7593	561.5385
86	PAN105136	0.8240	98.4704
87	PAN110136	0.4394	16.9104
88	PAN115136	1.2802	2826.0486
89	PAN120136	0.2869	7.9318
90	PAN125136	0.9704	49.0969
91	PAN130136	1.8265	62.8073
92	PAN120048	1.0361	15.8002
93	PAN130048	2.8687	40.9996
94	PAN120224	1.1017	104.8240
95	PAN130224	1.1566	20.4574
96	PAN120312	0.0747	1.7434
97	PAN130312	0.4334	11.2493
98	PAB000136	0.0531	0.1326
99	PAB100136	0.0696	0.1748
100	PAB125136	0.0623	0.1570

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1612	0.4042
102	PRV000001	0.0366	0.1838
103	PSR000001	0.0928	0.2394
104	PFM000001	0.0092	0.0411
105	PAN000136	0.1556	1.6235
106	PFM000002	0.0393	0.1760
107	EMPTY	0.0002	4.0816
108	EMPTY	0.0327	0.3271
109	EMPTY	0.0004	7.8431
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0274	0.0146
113	VPW000002	0.0039	0.0019
114	VPW000003	0.2851	0.1702
115	VPW000004	0.1328	0.0945
116	VPW000005	0.0351	0.0229
117	VPW000006	0.0547	0.0240
118	IPW000001	7.6138	0.5050
119	IPW000002	16.1953	1.4624
120	IPW000003	17.1990	1.8996
121	IPW000004	5.5370	0.7362
122	IPW000005	7.5185	0.9111
123	IPW000006	2.8320	0.4729
124	EMPTY	0.0011	5.9783
125	EMPTY	0.0004	2.9851
126	EMPTY	0.0012	8.3333
127	EMPTY	0.0016	9.3023
128	IHT000001	0.0547	0.0305
129	IHT000002	0.0859	0.0466
130	IHT000003	0.1406	0.0758
131	IHT000004	0.0469	0.0233
132	IHT000005	0.0156	0.0079
133	IHT000006	0.0547	0.0284
134	IHT000007	0.0547	0.0299
135	IHT000008	0.0664	0.0367
136	IHT000009	0.0508	0.0280
137	IHT000010	0.2812	0.1674
138	IHT000011	0.1914	0.1158
139	IHT000012	0.1406	0.0866
140	IHT000013	0.1211	0.0903
141	IHT000014	0.0781	0.0455
142	IHT000015	0.0508	0.0366
143	IHT000016	0.1250	0.1020
144	IHT000017	0.2461	0.1645
145	IHT000018	0.2695	0.1782
146	IHT000019	0.2617	0.1616
147	IHT000020	0.3867	0.2314
148	IHT000021	0.5430	46.7982
149	IHT000022	0.5664	0.4101
150	IHT000023	0.3711	0.2266
151	IHT000024	0.3555	0.2758
152	IHT000025	0.1328	0.0906
153	IHT000026	0.1836	0.1236
154	IHT000027	0.1797	0.1445
155	IHT000028	0.0430	0.0340

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1445	0.0976
157	IHT000030	0.1328	0.0881
158	IHT000031	0.0391	0.0289
159	IHT000032	0.0195	0.0142
160	IHT000033	0.0312	0.0228
161	IHT000034	0.1719	0.1363
162	IHT000035	0.0938	0.0565
163	IHT000036	0.1992	0.1600

Velocity 1 = 10.0072 (ft/sec) (+/- 2.3399 %)
Velocity 2 = 10.0171 (ft/sec) (+/- 1.7722 %)
Pressure drop = -1.2745 (psi)
Tsat in = 267.3715 (deg F) Tsat out = 269.1277 (deg F)
Phi inner = 197.4645 (kBtu/hr-ft2) (+/- 1.3834 %)
Phi outer = 201.3584 (kBtu/hr-ft2) (+/- 1.3005 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.3678	83.0036	82.6900	1.9262e-01	1.9001e+00
1	TRF000002	82.8563	83.4885	83.1008	1.6134e-01	1.9001e+00
2	TFM000001	86.4139	87.1493	86.7957	1.8458e-01	1.9002e+00
3	TIN000001	85.8483	86.3753	86.1305	1.2846e-01	1.9002e+00
4	TRV000001	86.9091	87.7486	87.3452	1.9095e-01	1.9002e+00
5	TSR000001	133.9321	136.0479	134.9270	4.2659e-01	1.9028e+00
6	TAO020136	57.2414	59.8273	58.5696	4.3985e-01	1.9001e+00
7	TAO050136	186.1583	188.6770	187.2134	5.1710e-01	1.9092e+00
8	TAO070136	182.1752	186.6836	183.7487	1.0183e+00	1.9087e+00
9	TAO080136	138.8565	140.4636	139.4957	3.5373e-01	1.9033e+00
10	TAO090136	225.2953	226.6225	225.7542	2.6974e-01	1.9163e+00
11	TAO100136	218.8037	220.6122	219.7408	4.1070e-01	1.9150e+00
12	TAO105136	222.5504	224.1682	223.2740	3.4296e-01	1.9158e+00
13	TAO110136	233.8685	234.9001	234.4541	2.1624e-01	1.9181e+00
14	TAO115136	226.0065	228.2849	227.1305	4.6721e-01	1.9166e+00
15	TAO120136	241.5500	242.8666	242.1708	3.2499e-01	1.9199e+00
16	TAO125136	160.6744	161.7654	161.1309	2.7368e-01	1.9056e+00
17	TAO130136	235.9884	236.8296	236.3887	1.8623e-01	1.9186e+00
18	TAO120048	103.8126	104.9533	104.5135	2.8813e-01	1.9008e+00
19	TAO130048	218.5307	219.7667	219.0549	2.6556e-01	1.9149e+00
20	TAO120224	224.3709	225.7944	224.9141	2.5231e-01	1.9161e+00
21	TAO130224	212.1044	214.2875	213.1339	4.7211e-01	1.9138e+00
22	TAO120312	207.9424	209.4805	208.6006	3.6194e-01	1.9129e+00
23	TAO130312	207.4134	209.1366	208.3469	3.7403e-01	1.9129e+00
24	TRT020000	169.4186	170.8024	170.0910	2.9492e-01	1.9067e+00
25	TRT070000	193.0511	194.5148	193.6450	3.0262e-01	1.9103e+00
26	TRT100000	210.4668	211.8064	211.0793	3.0008e-01	1.9134e+00
27	TRT120000	215.4675	217.1854	216.1967	3.3931e-01	1.9143e+00
28	TRT125000	92.1682	92.7935	92.4475	1.5405e-01	1.9003e+00
29	TRT130000	210.5924	211.4544	211.0175	1.6553e-01	1.9133e+00
30	EMPTY	39.3761	40.0646	39.7296	2.2815e-01	1.9011e+00
31	TAF050136	128.2991	130.8302	129.3368	4.6080e-01	1.9024e+00
32	TAF070136	147.2036	149.2961	148.0337	4.5929e-01	1.9041e+00
33	TAF080136	212.7155	214.3307	213.5737	4.4543e-01	1.9138e+00
34	TAF090136	90.2279	91.3800	90.7598	2.9820e-01	1.9003e+00
35	TAF100136	172.2300	174.5955	173.1564	5.3373e-01	1.9072e+00
36	TAF105136	176.8177	178.4691	177.4655	3.9640e-01	1.9078e+00
37	TAF110136	181.4093	183.6474	182.2439	5.2043e-01	1.9085e+00
38	TAF115136	186.5609	188.6982	187.5138	4.7826e-01	1.9093e+00
39	TAF120136	214.9041	220.1281	217.1593	1.3553e+00	1.9145e+00
40	TAF125136	195.7073	197.2445	196.4846	3.6687e-01	1.9107e+00
41	TAF130136	199.2062	200.7464	199.9420	2.9368e-01	1.9113e+00
42	TAF120048	174.6050	176.2847	175.4747	4.0631e-01	1.9075e+00
43	TAF130048	182.4511	184.1098	183.1063	3.1913e-01	1.9086e+00
44	TAF120224	176.6105	178.1767	177.3549	3.5281e-01	1.9077e+00
45	TAF130224	182.1571	183.7275	183.2132	3.1000e-01	1.9086e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0848	1.9647e-01	1.9010e+00
47	EMPTY	39.3761	40.0646	39.7342	1.3246e-01	1.9011e+00
48	TAI130048	212.9165	215.4029	214.0722	4.5718e-01	1.9139e+00
49	TAI130136	239.1243	240.4368	239.7690	2.4459e-01	1.9193e+00
50	TAI130224	209.8663	211.2116	210.5547	3.4862e-01	1.9133e+00
51	TAI130312	213.3367	214.4865	213.8583	2.9673e-01	1.9139e+00
52	TRR130000	131.0360	132.4509	131.7965	3.4300e-01	1.9026e+00
53	TSI000001	66.2604	67.0074	66.6267	1.7144e-01	1.9000e+00
54	TSI000002	105.7630	109.1641	107.7872	6.8499e-01	1.9010e+00
55	TSO000001	65.4538	66.3124	65.9472	2.2006e-01	1.9000e+00
56	TSO000002	77.5562	78.4040	77.9085	2.1016e-01	1.9000e+00
57	TAF020136	98.9195	102.5798	100.6940	6.1860e-01	1.9006e+00
58	TAF120312	164.5397	166.3198	165.3232	4.5255e-01	1.9061e+00
59	TAF130312	175.1074	178.4378	177.0364	7.7466e-01	1.9077e+00
60	EMPTY	2.4316	2.4609	2.4485	7.3299e-03	0.0000e+00
61	EMPTY	2.4365	2.4561	2.4450	5.4756e-03	0.0000e+00
62	EMPTY	2.4316	2.4512	2.4408	4.7963e-03	0.0000e+00
63	EMPTY	2.4365	2.4512	2.4433	4.5088e-03	0.0000e+00
64	EMPTY	1.2500	1.2598	1.2544	2.2603e-03	0.0000e+00
65	EMPTY	1.2695	1.2793	1.2738	2.1249e-03	0.0000e+00
66	EMPTY	1.2842	1.2939	1.2871	2.6100e-03	0.0000e+00
67	EMPTY	1.2988	1.3086	1.3032	1.7784e-03	0.0000e+00
68	EMPTY	1.3086	1.3184	1.3134	1.5566e-03	0.0000e+00
69	EMPTY	1.3232	1.3330	1.3279	1.3811e-03	0.0000e+00
70	EMPTY	1.3330	1.3477	1.3404	2.8317e-03	0.0000e+00
71	EMPTY	1.3574	1.3623	1.3593	2.3941e-03	0.0000e+00
72	EMPTY	1.3672	1.3721	1.3704	2.3365e-03	0.0000e+00
73	EMPTY	1.3818	1.3916	1.3870	1.5314e-03	0.0000e+00
74	EMPTY	1.3965	1.4063	1.4009	1.7784e-03	0.0000e+00
75	EMPTY	1.4111	1.4160	1.4159	6.9053e-04	0.0000e+00
76	EMPTY	1.4209	1.4307	1.4259	1.2041e-03	0.0000e+00
77	EMPTY	1.4404	1.4502	1.4417	2.3778e-03	0.0000e+00
78	EMPTY	1.4551	1.4648	1.4608	2.1364e-03	0.0000e+00
79	EMPTY	1.4795	1.4844	1.4805	1.9730e-03	0.0000e+00
80	PAN020136	-14.4106	13.4366	-1.6161	6.9047e+00	8.7001e-01
81	PAN050136	-23.9132	3.2475	-10.7906	7.5088e+00	1.6802e+00
82	PAN070136	-20.7634	5.5580	-6.3972	6.5664e+00	8.7015e-01
83	PAN080136	-13.8795	6.4910	-5.0172	5.8292e+00	8.7009e-01
84	PAN090136	-13.0990	6.9663	-4.0414	3.8711e+00	8.7006e-01
85	PAN100136	-12.1908	5.4332	-4.5308	3.8163e+00	8.7007e-01
86	PAN105136	-7.6257	9.9982	-0.7180	3.5726e+00	8.7000e-01
87	PAN110136	-7.2222	8.2655	0.4561	3.1887e+00	8.7000e-01
88	PAN115136	-7.5597	6.1733	-0.3255	2.9666e+00	8.7000e-01
89	PAN120136	-6.8245	5.5351	-3.1319	3.6400e+00	8.7004e-01
90	PAN125136	-5.9560	13.3464	4.6290	3.9580e+00	8.7008e-01
91	PAN130136	-4.8541	12.9987	-0.8395	2.9781e+00	8.7000e-01
92	PAN120048	-12.0293	5.5946	-3.9925	4.9508e+00	8.7006e-01
93	PAN130048	-8.0635	18.8683	2.0958	5.5316e+00	8.7002e-01
94	PAN120224	-12.4417	8.0051	0.5970	4.4158e+00	8.7000e-01
95	PAN130224	-9.5380	7.7044	-1.9178	3.5202e+00	8.7001e-01
96	PAN120312	-13.8017	-6.0197	-12.3628	1.8729e+00	8.7055e-01
97	PAN130312	-2.2828	11.6789	6.5886	3.0166e+00	8.7016e-01
98	PAB000136	39.4957	40.5027	40.0019	2.6489e-01	5.8856e-01
99	PAB100136	40.7800	41.4209	41.1737	1.2748e-01	5.8906e-01
100	PAB125136	41.0036	41.3698	41.1959	8.9665e-02	5.8907e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	38.9821	40.3249	39.8171	3.9641e-01	7.5658e-01
102	PRV0000001	19.7186	19.9627	19.8480	4.5541e-02	7.5164e-01
103	PSR0000001	40.4210	40.6652	40.5236	6.6906e-02	7.5681e-01
104	PFM0000001	15.0991	15.4653	15.2694	9.9624e-02	5.0146e-01
105	PAN000136	-48.4786	-22.3860	-35.2858	7.8183e+00	4.9208e+00
106	PFM0000002	15.1518	15.4035	15.3002	5.9239e-02	2.0362e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-6.4307	-9.8452	6.2952e-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	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	187.2296	187.4249	187.2803	8.6541e-02	1.3852e+00
113	VPW0000002	204.9955	205.3861	205.1674	9.3710e-02	1.4736e+00
114	VPW0000003	167.4579	168.0439	167.6962	1.4916e-01	1.2917e+00
115	VPW0000004	140.5912	140.9818	140.7553	1.2701e-01	1.1702e+00
116	VPW0000005	153.3954	153.7861	153.5908	1.1161e-01	1.2269e+00
117	VPW0000006	227.7006	228.2865	227.9193	1.0168e-01	1.5894e+00
118	IPW0000001	1497.1472	1501.0519	1498.8265	1.3669e+00	1.4346e+01
119	IPW0000002	1107.6082	1115.4132	1112.0961	1.5891e+00	1.1950e+01
120	IPW0000003	908.7375	914.5875	912.3251	1.4929e+00	1.0842e+01
121	IPW0000004	749.6149	751.0798	750.3474	3.7239e-01	6.2560e+00
122	IPW0000005	827.5634	829.0281	828.4125	3.5304e-01	6.8432e+00
123	IPW0000006	599.4872	600.9521	600.3071	3.1874e-01	5.1469e+00
124	EMPTY	-0.0244	-0.0098	-0.0179	4.1397e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0129	2.9197e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0138	3.2253e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0157	3.1644e-03	0.0000e+00
128	IHT0000001	178.1400	180.6791	179.1869	6.0459e-01	4.4745e+00
129	IHT0000002	183.1844	185.5281	184.1298	5.7907e-01	4.4945e+00
130	IHT0000003	184.0933	186.4370	185.2808	5.6475e-01	4.4992e+00
131	IHT0000004	199.9962	202.1447	201.0313	5.6393e-01	4.5663e+00
132	IHT0000005	197.2844	199.6282	198.3858	5.2905e-01	4.5547e+00
133	IHT0000006	191.8682	193.8214	192.6494	5.2645e-01	4.5301e+00
134	IHT0000007	181.4040	183.7477	182.4977	5.5524e-01	4.4878e+00
135	IHT0000008	179.5973	182.3317	180.7496	5.8958e-01	4.4807e+00
136	IHT0000009	180.2659	183.0003	181.6019	6.0019e-01	4.4842e+00
137	IHT0000010	167.1049	169.0580	167.9096	4.6461e-01	4.4305e+00
138	IHT0000011	164.3931	166.1509	165.1196	4.1204e-01	4.4200e+00
139	IHT0000012	161.4446	163.2024	162.2140	4.3299e-01	4.4092e+00
140	IHT0000013	133.2895	134.8520	133.9888	4.2332e-01	4.3134e+00
141	IHT0000014	170.5041	172.2619	171.3556	4.6981e-01	4.4437e+00
142	IHT0000015	137.8305	139.5883	138.7016	4.1985e-01	4.3283e+00
143	IHT0000016	121.3755	123.3286	122.4341	4.5006e-01	4.2789e+00
144	IHT0000017	147.9267	150.6611	149.1142	6.5297e-01	4.3627e+00
145	IHT0000018	150.1728	153.1025	151.2822	6.4409e-01	4.3702e+00
146	IHT0000019	160.6370	162.7855	161.8519	4.9172e-01	4.4079e+00
147	IHT0000020	165.6100	167.9537	166.8794	4.9166e-01	4.4266e+00
148	IHT0000021	-2.6330	-0.0939	-1.2736	5.9577e-01	4.1000e+00
149	IHT0000022	136.8277	138.5855	137.7691	4.4238e-01	4.3253e+00
150	IHT0000023	162.4925	164.6409	163.5199	4.9883e-01	4.4141e+00
151	IHT0000024	127.7381	129.8866	128.6835	4.9499e-01	4.2972e+00
152	IHT0000025	145.1209	147.4647	146.5155	4.8329e-01	4.3539e+00
153	IHT0000026	147.0703	149.4141	148.5156	4.7351e-01	4.3607e+00
154	IHT0000027	123.3737	125.3268	124.3619	4.4888e-01	4.2845e+00
155	IHT0000028	124.9474	127.6818	126.1779	6.7917e-01	4.2898e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.6083	149.1474	147.8076	6.3136e-01	4.3583e+00
157	IHT000030	149.5643	151.9080	150.5800	5.9451e-01	4.3678e+00
158	IHT000031	133.8266	136.1704	134.8891	6.0381e-01	4.3162e+00
159	IHT000032	135.6370	138.1761	136.7504	6.4144e-01	4.3220e+00
160	IHT000033	135.6220	138.1611	136.7158	6.4356e-01	4.3219e+00
161	IHT000034	124.9662	127.5053	126.1108	5.1450e-01	4.2896e+00
162	IHT000035	164.8400	167.5744	166.0587	5.2432e-01	4.4235e+00
163	IHT000036	123.2760	125.8150	124.4595	4.9820e-01	4.2847e+00

Velocity 1 = 10.0036 (ft/sec) (+/- 2.3407 %)
Velocity 2 = 10.0069 (ft/sec) (+/- 1.7726 %)
Pressure drop = -1.3860 (psi)
Tsat in = 267.4410 (deg F) Tsat out = 269.2725 (deg F)
Phi inner = 199.0892 (kBtu/hr-ft2) (+/- 1.3811 %)
Phi outer = 201.9528 (kBtu/hr-ft2) (+/- 1.2992 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	82.3678	83.2154	82.7790	1.8369e-01	1.9001e+00
1	TRF0000002	82.8563	83.4885	83.1809	1.2920e-01	1.9001e+00
2	TFM0000001	86.5184	87.2535	86.8296	1.8729e-01	1.9002e+00
3	TIN0000001	85.7428	86.4804	86.1474	1.3695e-01	1.9002e+00
4	TRV0000001	87.0142	87.8541	87.4085	2.1011e-01	1.9002e+00
5	TSR0000001	135.6433	136.7525	136.1677	2.6536e-01	1.9029e+00
6	TAO020136	55.4067	57.7810	56.5121	4.9800e-01	1.9001e+00
7	TAO050136	186.8387	188.8710	187.4853	4.7065e-01	1.9093e+00
8	TAO070136	182.9610	186.2918	184.0741	8.0261e-01	1.9087e+00
9	TAO080136	139.8604	141.5640	140.5542	3.8720e-01	1.9034e+00
10	TAO090136	225.5811	226.9071	226.1067	2.7680e-01	1.9163e+00
11	TAO100136	219.0899	220.9920	220.0798	3.6928e-01	1.9151e+00
12	TAO105136	222.8359	224.2634	223.5140	3.3677e-01	1.9158e+00
13	TAO110136	234.0578	235.0882	234.6270	2.3094e-01	1.9182e+00
14	TAO115136	226.3859	228.5690	227.4610	4.0651e-01	1.9166e+00
15	TAO120136	241.6445	243.1482	242.3025	3.1145e-01	1.9199e+00
16	TAO125136	160.1805	161.9627	161.0877	4.8190e-01	1.9056e+00
17	TAO130136	235.8969	237.0153	236.4865	2.7247e-01	1.9186e+00
18	TAO120048	105.9865	107.2286	106.5494	3.4852e-01	1.9009e+00
19	TAO130048	219.0054	219.9564	219.4770	2.2230e-01	1.9150e+00
20	TAO120224	223.8011	225.5110	224.9941	3.2109e-01	1.9161e+00
21	TAO130224	212.4861	214.3808	213.1766	3.6764e-01	1.9138e+00
22	TAO120312	208.0390	210.2490	208.8544	4.1143e-01	1.9129e+00
23	TAO130312	208.0830	209.6151	208.6535	3.2315e-01	1.9129e+00
24	TRT020000	169.8137	171.0005	170.3678	2.8742e-01	1.9068e+00
25	TRT070000	192.5635	194.1244	193.3597	3.1745e-01	1.9102e+00
26	TRT100000	210.4673	212.0931	211.3778	3.5414e-01	1.9134e+00
27	TRT120000	215.5635	217.2808	216.4869	3.8952e-01	1.9144e+00
28	TRT125000	95.2822	96.2181	95.7191	2.1122e-01	1.9004e+00
29	TRT130000	211.0706	211.8360	211.4117	2.0213e-01	1.9134e+00
30	EMPTY	39.3761	40.0646	39.7663	2.0866e-01	1.9011e+00
31	TAF050136	128.4018	130.4271	129.3212	4.0292e-01	1.9024e+00
32	TAF070136	146.5073	149.2961	148.0104	6.0680e-01	1.9041e+00
33	TAF080136	212.8097	214.8036	213.7377	4.3261e-01	1.9139e+00
34	TAF090136	92.8417	93.7827	93.3310	2.5543e-01	1.9004e+00
35	TAF100136	172.5257	174.7925	173.3260	5.2475e-01	1.9072e+00
36	TAF105136	176.3299	178.6656	177.5169	4.6249e-01	1.9078e+00
37	TAF110136	181.5076	183.6479	182.3846	4.2308e-01	1.9085e+00
38	TAF115136	187.0490	189.0868	187.7318	3.8836e-01	1.9093e+00
39	TAF120136	215.2855	220.2234	217.2890	1.3687e+00	1.9146e+00
40	TAF125136	195.7089	197.6282	196.7234	3.9695e-01	1.9108e+00
41	TAF130136	199.5910	201.2277	200.2967	3.8346e-01	1.9114e+00
42	TAF120048	175.0985	176.7781	175.9962	3.9155e-01	1.9076e+00
43	TAF130048	182.7445	184.4008	183.4538	3.3559e-01	1.9087e+00
44	TAF120224	176.7083	178.4695	177.5587	3.8175e-01	1.9078e+00
45	TAF130224	182.7462	183.9237	183.4839	2.8457e-01	1.9087e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0894	1.9708e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7755	1.1177e-01	1.9011e+00
48	TAI130048	213.0122	215.7855	214.6421	5.4937e-01	1.9140e+00
49	TAI130136	239.5924	241.0001	240.4219	2.6840e-01	1.9195e+00
50	TAI130224	210.5393	211.8846	211.2120	2.9368e-01	1.9134e+00
51	TAI130312	213.6244	214.8696	214.2759	2.7159e-01	1.9140e+00
52	TRR130000	132.3491	134.2655	133.2903	5.2289e-01	1.9027e+00
53	TSI000001	66.2598	66.9017	66.5250	1.4979e-01	1.9000e+00
54	TSI000002	105.4526	108.8557	107.0128	7.8070e-01	1.9009e+00
55	TSO000001	65.4527	66.2051	65.8310	1.7519e-01	1.9000e+00
56	TSO000002	77.4509	78.4045	77.8706	2.1181e-01	1.9000e+00
57	TAF020136	99.5465	102.1613	100.7397	5.8789e-01	1.9006e+00
58	TAF120312	164.5397	167.2087	165.6833	4.8802e-01	1.9062e+00
59	TAF130312	176.3827	179.5149	177.5302	7.7013e-01	1.9078e+00
60	EMPTY	2.4463	2.4707	2.4567	6.1613e-03	0.0000e+00
61	EMPTY	2.4463	2.4609	2.4521	3.1195e-03	0.0000e+00
62	EMPTY	2.4414	2.4512	2.4469	2.1249e-03	0.0000e+00
63	EMPTY	2.4463	2.4512	2.4497	2.2603e-03	0.0000e+00
64	EMPTY	1.2549	1.2646	1.2593	1.7784e-03	0.0000e+00
65	EMPTY	1.2744	1.2793	1.2787	1.6028e-03	0.0000e+00
66	EMPTY	1.2891	1.2939	1.2901	2.0432e-03	0.0000e+00
67	EMPTY	1.3037	1.3135	1.3073	2.3778e-03	0.0000e+00
68	EMPTY	1.3135	1.3184	1.3183	6.9053e-04	0.0000e+00
69	EMPTY	1.3281	1.3379	1.3330	9.8648e-04	0.0000e+00
70	EMPTY	1.3379	1.3477	1.3429	1.2041e-03	0.0000e+00
71	EMPTY	1.3574	1.3672	1.3624	1.2041e-03	0.0000e+00
72	EMPTY	1.3672	1.3770	1.3722	1.2041e-03	0.0000e+00
73	EMPTY	1.3867	1.3916	1.3915	6.9053e-04	0.0000e+00
74	EMPTY	1.4014	1.4063	1.4018	1.3381e-03	0.0000e+00
75	EMPTY	1.4111	1.4258	1.4193	2.6908e-03	0.0000e+00
76	EMPTY	1.4209	1.4307	1.4305	1.3811e-03	0.0000e+00
77	EMPTY	1.4453	1.4502	1.4454	6.9053e-04	0.0000e+00
78	EMPTY	1.4648	1.4697	1.4651	1.1714e-03	0.0000e+00
79	EMPTY	1.4844	1.4941	1.4846	1.3811e-03	0.0000e+00
80	PAN020136	-15.7839	9.6220	-5.2798	5.8967e+00	8.7010e-01
81	PAN050136	-24.9813	4.7733	-10.9280	7.6276e+00	1.6802e+00
82	PAN070136	-21.5263	1.6670	-8.5716	6.0054e+00	8.7026e-01
83	PAN080136	-13.8032	9.7716	-4.1658	4.7030e+00	8.7006e-01
84	PAN090136	-13.0990	10.0181	-3.3883	5.5318e+00	8.7004e-01
85	PAN100136	-12.1908	4.6702	-5.1152	4.8555e+00	8.7009e-01
86	PAN105136	-7.5494	8.5486	-0.3824	3.7937e+00	8.7000e-01
87	PAN110136	-7.1459	14.3690	0.1753	4.0549e+00	8.7000e-01
88	PAN115136	-6.4152	7.2414	0.3017	2.8049e+00	8.7000e-01
89	PAN120136	-6.8245	8.6631	-0.2633	3.8512e+00	8.7000e-01
90	PAN125136	-3.8198	12.8886	2.1250	3.5307e+00	8.7002e-01
91	PAN130136	-7.9821	4.6064	-1.5826	2.2413e+00	8.7001e-01
92	PAN120048	-12.0293	5.8234	-5.4986	3.7871e+00	8.7011e-01
93	PAN130048	-8.2924	9.7893	2.1355	3.6606e+00	8.7002e-01
94	PAN120224	-12.4417	8.2340	-0.2881	4.1725e+00	8.7000e-01
95	PAN130224	-9.9195	9.9170	-2.2168	3.5537e+00	8.7002e-01
96	PAN120312	-13.8017	-2.2050	-11.8776	2.7687e+00	8.7051e-01
97	PAN130312	-3.1221	9.4664	4.8445	2.8594e+00	8.7008e-01
98	PAB000136	39.5872	40.4570	40.0486	2.3155e-01	5.8858e-01
99	PAB100136	40.9174	41.6040	41.2625	1.3248e-01	5.8910e-01
100	PAB125136	41.0952	41.6445	41.2957	1.0252e-01	5.8912e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.1042	40.6911	39.9807	4.3330e-01	7.5663e-01
102	PRV0000001	19.8406	19.9627	19.8528	3.6993e-02	7.5164e-01
103	PSR0000001	40.5431	40.7872	40.6603	4.9077e-02	7.5686e-01
104	PFM0000001	15.0076	15.5569	15.2584	1.1960e-01	5.0145e-01
105	PAN000136	-60.3804	-23.7593	-38.3711	8.1630e+00	4.9209e+00
106	PFM0000002	15.0847	15.4706	15.2686	7.4346e-02	2.0361e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-8.9893	-9.9083	2.5099e-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	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	187.0343	187.6202	187.3623	1.3346e-01	1.3856e+00
113	VPW0000002	205.1908	205.3861	205.2767	9.7935e-02	1.4741e+00
114	VPW0000003	167.4579	168.0439	167.7666	1.3720e-01	1.2920e+00
115	VPW0000004	140.5912	140.9818	140.7631	1.2871e-01	1.1702e+00
116	VPW0000005	153.3954	153.7861	153.6064	1.1732e-01	1.2270e+00
117	VPW0000006	227.8959	228.2865	228.0990	1.4205e-01	1.5903e+00
118	IPW0000001	1495.1949	1501.0519	1497.6162	1.6993e+00	1.4338e+01
119	IPW0000002	1123.2183	1129.0721	1126.9645	1.4126e+00	1.2036e+01
120	IPW0000003	916.5375	924.3375	920.3208	2.0246e+00	1.0884e+01
121	IPW0000004	746.6852	752.0563	749.1657	1.9651e+00	6.2472e+00
122	IPW0000005	830.9810	832.4457	831.6838	2.8176e-01	6.8680e+00
123	IPW0000006	601.9286	603.8818	602.6118	3.9459e-01	5.1637e+00
124	EMPTY	-0.0244	-0.0049	-0.0163	3.7706e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0111	3.5623e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0114	3.2133e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0149	2.8608e-03	0.0000e+00
128	IHT0000001	178.1400	180.8744	179.4135	5.9744e-01	4.4754e+00
129	IHT0000002	183.1844	185.9187	184.3407	5.9299e-01	4.4953e+00
130	IHT0000003	184.4839	186.8277	185.4996	5.6634e-01	4.5001e+00
131	IHT0000004	200.1915	202.5353	201.2384	6.1480e-01	4.5672e+00
132	IHT0000005	197.2844	199.6282	198.6280	5.4196e-01	4.5558e+00
133	IHT0000006	191.4776	194.0167	192.8721	5.6498e-01	4.5310e+00
134	IHT0000007	181.5993	184.1384	182.7946	5.6722e-01	4.4890e+00
135	IHT0000008	179.7926	182.3317	181.0387	5.7030e-01	4.4819e+00
136	IHT0000009	180.4612	183.3909	181.8792	6.1739e-01	4.4853e+00
137	IHT0000010	167.1049	169.2533	168.0034	5.5243e-01	4.4309e+00
138	IHT0000011	164.1977	166.1509	165.2173	4.9014e-01	4.4204e+00
139	IHT0000012	161.4446	163.3977	162.3312	4.9001e-01	4.4097e+00
140	IHT0000013	133.2895	135.8286	134.0708	5.0686e-01	4.3136e+00
141	IHT0000014	170.3087	172.8478	171.4610	5.3996e-01	4.4441e+00
142	IHT0000015	137.8305	140.3696	138.8032	5.2123e-01	4.3286e+00
143	IHT0000016	121.3755	124.1098	122.5552	5.7583e-01	4.2792e+00
144	IHT0000017	148.7079	151.4423	150.0908	6.5535e-01	4.3661e+00
145	IHT0000018	150.1728	153.1025	151.4346	5.7617e-01	4.3707e+00
146	IHT0000019	161.0276	163.1761	161.9847	5.4426e-01	4.4084e+00
147	IHT0000020	165.8053	168.3443	166.9849	5.7987e-01	4.4270e+00
148	IHT0000021	-2.4377	0.2967	-1.2424	6.4674e-01	4.1000e+00
149	IHT0000022	136.8277	138.7808	137.7183	4.7705e-01	4.3251e+00
150	IHT0000023	162.2972	164.6409	163.4770	5.1593e-01	4.4139e+00
151	IHT0000024	127.7381	130.0819	128.6796	4.8918e-01	4.2972e+00
152	IHT0000025	145.5116	147.6600	146.5585	5.0803e-01	4.3541e+00
153	IHT0000026	147.6563	149.6094	148.6250	5.1442e-01	4.3611e+00
154	IHT0000027	123.3737	125.5221	124.4361	5.0711e-01	4.2847e+00
155	IHT0000028	124.9474	127.8771	126.3654	6.8437e-01	4.2903e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.8036	149.5380	148.0029	6.4839e-01	4.3590e+00
157	IHT000030	149.3690	152.2987	150.7206	6.8894e-01	4.3683e+00
158	IHT000031	133.8266	136.7563	135.0415	6.3416e-01	4.3167e+00
159	IHT000032	135.4417	138.7620	136.8168	6.4833e-01	4.3223e+00
160	IHT000033	135.4267	138.5517	136.7900	6.2576e-01	4.3222e+00
161	IHT000034	124.9662	127.1146	126.0796	4.8528e-01	4.2895e+00
162	IHT000035	164.8400	167.1837	166.0392	5.0380e-01	4.4234e+00
163	IHT000036	123.6666	125.6197	124.4947	4.9687e-01	4.2848e+00

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Velocity 1 = 0.003600 (ft/sec)

Velocity 2 = 0.010201 (ft/sec)

Pressure Drop = 0.111500 (psi)

Tsat in = 0.069519 (deg F) Tsat out = 0.144806 (deg F)

Phi inner = 1.624710 (kBtu/hr-ft2) Phi outer = 0.594406 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0890	0.1076
1	TRF000002	0.0801	0.0964
2	TFM000001	0.0339	0.0391
3	TIN000001	0.0169	0.0196
4	TRV000001	0.0633	0.0725
5	TSR000001	1.2407	0.9195
6	TAO020136	2.0575	3.5129
7	TAO050136	0.2719	0.1452
8	TAO070136	0.3254	0.1771
9	TAO080136	1.0585	0.7588
10	TAO090136	0.3525	0.1561
11	TAO100136	0.3390	0.1543
12	TAO105136	0.2400	0.1075
13	TAO110136	0.1729	0.0737
14	TAO115136	0.3305	0.1455
15	TAO120136	0.1317	0.0544
16	TAO125136	0.0432	0.0268
17	TAO130136	0.0978	0.0414
18	TAO120048	2.0359	1.9480
19	TAO130048	0.4221	0.1927
20	TAO120224	0.0800	0.0356
21	TAO130224	0.0427	0.0200
22	TAO120312	0.2538	0.1217
23	TAO130312	0.3066	0.1472
24	TRT020000	0.2768	0.1627
25	TRT070000	0.2853	0.1473
26	TRT100000	0.2985	0.1414
27	TRT120000	0.2902	0.1342
28	TRT125000	3.2716	3.5389
29	TRT130000	0.3942	0.1868
30	EMPTY	0.0367	0.0924
31	TAF050136	0.0156	0.0121
32	TAF070136	0.0233	0.0157
33	TAF080136	0.1640	0.0768
34	TAF090136	2.5712	2.8330
35	TAF100136	0.1696	0.0979
36	TAF105136	0.0514	0.0290
37	TAF110136	0.1407	0.0772
38	TAF115136	0.2180	0.1163
39	TAF120136	0.1297	0.0597
40	TAF125136	0.2388	0.1215
41	TAF130136	0.3547	0.1774
42	TAF120048	0.5215	0.2972
43	TAF130048	0.3475	0.1898
44	TAF120224	0.2038	0.1149
45	TAF130224	0.2707	0.1478

#	Name	Abs Diff	%Diff
46	EMPTY	0.0046	0.0121
47	EMPTY	0.0413	0.1039
48	TAI130048	0.5699	0.2662
49	TAI130136	0.6529	0.2723
50	TAI130224	0.6573	0.3122
51	TAI130312	0.4176	0.1953
52	TRR130000	1.4938	1.1334
53	TSI000001	0.1017	0.1526
54	TSI000002	0.7744	0.7185
55	TSO000001	0.1162	0.1762
56	TSO000002	0.0379	0.0487
57	TAF020136	0.0457	0.0454
58	TAF120312	0.3601	0.2178
59	TAF130312	0.4938	0.2789
60	EMPTY	0.0082	0.3349
61	EMPTY	0.0071	0.2904
62	EMPTY	0.0061	0.2499
63	EMPTY	0.0064	0.2619
64	EMPTY	0.0049	0.3906
65	EMPTY	0.0049	0.3847
66	EMPTY	0.0030	0.2331
67	EMPTY	0.0041	0.3146
68	EMPTY	0.0049	0.3731
69	EMPTY	0.0051	0.3841
70	EMPTY	0.0025	0.1865
71	EMPTY	0.0031	0.2281
72	EMPTY	0.0018	0.1314
73	EMPTY	0.0045	0.3244
74	EMPTY	0.0009	0.0642
75	EMPTY	0.0034	0.2401
76	EMPTY	0.0046	0.3226
77	EMPTY	0.0037	0.2566
78	EMPTY	0.0043	0.2944
79	EMPTY	0.0041	0.2769
80	PAN020136	3.6637	226.7001
81	PAN050136	0.1374	1.2733
82	PAN070136	2.1744	33.9899
83	PAN080136	0.8514	16.9696
84	PAN090136	0.6531	16.1602
85	PAN100136	0.5844	12.8984
86	PAN105136	0.3356	46.7409
87	PAN110136	0.2808	61.5654
88	PAN115136	0.6272	192.6882
89	PAN120136	2.8686	91.5930
90	PAN125136	2.5040	54.0938
91	PAN130136	0.7431	88.5170
92	PAN120048	1.5061	37.7232
93	PAN130048	0.0397	1.8943
94	PAN120224	0.8851	148.2580
95	PAN130224	0.2990	15.5908
96	PAN120312	0.4952	3.9247
97	PAN130312	1.7441	26.4715
98	PAB000136	0.0467	0.1167
99	PAB100136	0.0888	0.2157
100	PAB125136	0.0998	0.2423

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1636	0.4109
102	PRV000001	0.0048	0.0242
103	PSR000001	0.1367	0.3373
104	PFM000001	0.0110	0.0720
105	PAN000136	3.0853	8.7437
106	PFM000002	0.0316	0.2065
107	EMPTY	0.0001	2.0408
108	EMPTY	0.0631	0.6409
109	EMPTY	0.0001	2.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0820	0.0438
113	VPW000002	0.1093	0.0533
114	VPW000003	0.0704	0.0420
115	VPW000004	0.0078	0.0056
116	VPW000005	0.0156	0.0102
117	VPW000006	0.1797	0.0788
118	IPW000001	1.2103	0.0808
119	IPW000002	14.8684	1.3370
120	IPW000003	7.9957	0.8764
121	IPW000004	1.1817	0.1575
122	IPW000005	3.2713	0.3949
123	IPW000006	2.3047	0.3839
124	EMPTY	0.0016	8.9385
125	EMPTY	0.0018	13.9535
126	EMPTY	0.0024	17.3913
127	EMPTY	0.0008	5.0955
128	IHT000001	0.2266	0.1265
129	IHT000002	0.2109	0.1145
130	IHT000003	0.2188	0.1181
131	IHT000004	0.2071	0.1030
132	IHT000005	0.2422	0.1221
133	IHT000006	0.2227	0.1156
134	IHT000007	0.2969	0.1627
135	IHT000008	0.2891	0.1599
136	IHT000009	0.2773	0.1527
137	IHT000010	0.0938	0.0559
138	IHT000011	0.0977	0.0592
139	IHT000012	0.1172	0.0723
140	IHT000013	0.0820	0.0612
141	IHT000014	0.1054	0.0615
142	IHT000015	0.1016	0.0733
143	IHT000016	0.1211	0.0989
144	IHT000017	0.9766	0.6549
145	IHT000018	0.1524	0.1007
146	IHT000019	0.1328	0.0820
147	IHT000020	0.1055	0.0632
148	IHT000021	0.0312	2.4497
149	IHT000022	0.0508	0.0369
150	IHT000023	0.0429	0.0262
151	IHT000024	0.0039	0.0030
152	IHT000025	0.0430	0.0293
153	IHT000026	0.1094	0.0737
154	IHT000027	0.0742	0.0597
155	IHT000028	0.1875	0.1486

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1953	0.1321
157	IHT000030	0.1406	0.0934
158	IHT000031	0.1524	0.1130
159	IHT000032	0.0664	0.0486
160	IHT000033	0.0742	0.0543
161	IHT000034	0.0312	0.0247
162	IHT000035	0.0195	0.0117
163	IHT000036	0.0352	0.0283

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sum1

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Velocity 1 = 7.9233 (ft/sec) (+/- 3.1117 %)
Velocity 2 = 7.9376 (ft/sec) (+/- 1.9185 %)
Pressure drop = -2.4865 (psi)
Tsat in = 267.7701 (deg F) Tsat out = 271.0072 (deg F)
Phi inner = 197.2457 (kBtu/hr-ft2) (+/- 1.3849 %)
Phi outer = 201.1059 (kBtu/hr-ft2) (+/- 1.3007 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	83.0036	83.4272	83.1942	1.6155e-01	1.9001e+00
1	TRF000002	83.2778	83.6991	83.5728	1.3460e-01	1.9001e+00
2	TFM000001	86.4149	87.0453	86.7242	1.6071e-01	1.9002e+00
3	TIN000001	85.7433	86.3752	86.0237	1.3224e-01	1.9002e+00
4	TRV000001	87.1212	87.7515	87.4009	1.5926e-01	1.9002e+00
5	TSR000001	137.6578	139.8689	138.8180	5.7181e-01	1.9032e+00
6	TAO020136	54.1099	55.5153	54.7822	3.7469e-01	1.9002e+00
7	TAO050136	205.6096	207.2355	206.3573	4.1289e-01	1.9125e+00
8	TAO070136	203.6085	207.0864	204.9713	7.0518e-01	1.9122e+00
9	TAO080136	149.1477	150.3415	149.8153	2.7662e-01	1.9043e+00
10	TAO090136	252.6219	254.4826	253.6097	4.0332e-01	1.9226e+00
11	TAO100136	248.7856	251.2130	249.7587	5.5208e-01	1.9216e+00
12	TAO105136	253.5789	256.2858	254.6861	5.1892e-01	1.9228e+00
13	TAO110136	267.6825	269.1507	268.5618	2.6406e-01	1.9264e+00
14	TAO115136	260.2149	261.7032	260.9685	3.8828e-01	1.9244e+00
15	TAO120136	277.7132	278.9081	278.3698	2.4868e-01	1.9290e+00
16	TAO125136	180.0465	181.6079	180.8613	2.9298e-01	1.9083e+00
17	TAO130136	271.2038	272.5687	271.8585	2.7689e-01	1.9273e+00
18	TAO120048	110.3232	111.3545	110.9357	3.1407e-01	1.9011e+00
19	TAO130048	249.7563	251.0596	250.5283	3.0768e-01	1.9218e+00
20	TAO120224	255.3990	257.0746	256.2387	3.3938e-01	1.9232e+00
21	TAO130224	241.8864	244.6778	243.5372	6.1825e-01	1.9202e+00
22	TAO120312	235.9538	237.7459	236.8727	3.3439e-01	1.9187e+00
23	TAO130312	234.6593	235.9767	235.2939	2.6047e-01	1.9183e+00
24	TRT020000	186.7243	188.2871	187.4413	3.5778e-01	1.9093e+00
25	TRT070000	215.0490	216.7799	215.9433	4.1529e-01	1.9143e+00
26	TRT100000	237.4703	238.6916	238.0919	3.1069e-01	1.9189e+00
27	TRT120000	243.3672	244.9612	244.1343	3.9475e-01	1.9203e+00
28	TRT125000	98.8059	99.4285	99.0946	1.5992e-01	1.9006e+00
29	TRT130000	237.6039	238.3563	237.9522	1.6922e-01	1.9189e+00
30	EMPTY	39.3761	40.0646	39.7525	2.2121e-01	1.9011e+00
31	TAF050136	139.5986	142.5084	140.9169	6.8344e-01	1.9034e+00
32	TAF070136	163.1609	165.5214	164.1437	5.7614e-01	1.9060e+00
33	TAF080136	245.3255	250.4316	247.7984	1.2112e+00	1.9212e+00
34	TAF090136	95.7641	96.9112	96.3418	2.8431e-01	1.9005e+00
35	TAF100136	195.2240	197.6486	196.2078	5.1881e-01	1.9107e+00
36	TAF105136	200.6463	202.6572	201.3125	4.5881e-01	1.9116e+00
37	TAF110136	206.7015	209.0923	207.6294	5.0599e-01	1.9127e+00
38	TAF115136	213.2357	215.0486	214.2036	3.6937e-01	1.9140e+00
39	TAF120136	258.6257	261.3990	259.9178	6.5515e-01	1.9241e+00
40	TAF125136	225.0962	226.9785	226.0760	4.3589e-01	1.9163e+00
41	TAF130136	229.2530	230.8577	229.9617	3.2103e-01	1.9172e+00
42	TAF120048	199.5054	201.8370	200.4443	5.9285e-01	1.9114e+00
43	TAF130048	208.3730	211.4382	209.4327	6.4008e-01	1.9131e+00
44	TAF120224	200.0237	202.7194	200.9086	5.0306e-01	1.9115e+00
45	TAF130224	207.6579	210.4538	208.7862	7.5615e-01	1.9129e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.0940	2.4176e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.9040	1.3316e-01	1.9011e+00
48	TAI130048	245.7714	248.0193	246.7287	5.3051e-01	1.9209e+00
49	TAI130136	274.7550	276.0405	275.5761	2.9768e-01	1.9283e+00
50	TAI130224	239.8567	241.3649	240.7072	3.5193e-01	1.9195e+00
51	TAI130312	244.8189	246.1328	245.5525	3.1772e-01	1.9206e+00
52	TRR130000	140.4005	141.9066	141.3461	2.7868e-01	1.9034e+00
53	TSI000001	66.1553	67.2226	66.7508	1.9646e-01	1.9000e+00
54	TSI000002	105.4549	109.1659	107.0005	8.6343e-01	1.9009e+00
55	TSO000001	65.5597	66.3109	65.9826	1.9803e-01	1.9000e+00
56	TSO000002	79.8849	80.8368	80.2468	2.1260e-01	1.9001e+00
57	TAF020136	104.0390	106.6449	105.2845	6.3852e-01	1.9008e+00
58	TAF120312	185.9438	189.1557	187.3902	6.8874e-01	1.9093e+00
59	TAF130312	200.2824	203.7475	202.3181	9.5016e-01	1.9118e+00
60	EMPTY	3.0420	3.0811	3.0659	9.8771e-03	0.0000e+00
61	EMPTY	3.0469	3.0664	3.0566	5.2199e-03	0.0000e+00
62	EMPTY	3.0371	3.0566	3.0468	3.7551e-03	0.0000e+00
63	EMPTY	3.0420	3.0518	3.0454	3.1583e-03	0.0000e+00
64	EMPTY	1.5186	1.5234	1.5219	2.3008e-03	0.0000e+00
65	EMPTY	1.5381	1.5430	1.5395	2.2146e-03	0.0000e+00
66	EMPTY	1.5479	1.5527	1.5510	2.3675e-03	0.0000e+00
67	EMPTY	1.5625	1.5674	1.5653	2.4344e-03	0.0000e+00
68	EMPTY	1.5723	1.5771	1.5738	2.3008e-03	0.0000e+00
69	EMPTY	1.5869	1.5918	1.5870	6.9053e-04	0.0000e+00
70	EMPTY	1.5869	1.6016	1.5966	1.5566e-03	0.0000e+00
71	EMPTY	1.6113	1.6162	1.6154	1.8082e-03	0.0000e+00
72	EMPTY	1.6211	1.6260	1.6244	2.3008e-03	0.0000e+00
73	EMPTY	1.6357	1.6504	1.6399	2.4184e-03	0.0000e+00
74	EMPTY	1.6455	1.6553	1.6502	1.3811e-03	0.0000e+00
75	EMPTY	1.6602	1.6650	1.6645	1.6028e-03	0.0000e+00
76	EMPTY	1.6699	1.6748	1.6740	1.8082e-03	0.0000e+00
77	EMPTY	1.6846	1.6895	1.6883	2.1065e-03	0.0000e+00
78	EMPTY	1.7041	1.7188	1.7059	2.9197e-03	0.0000e+00
79	EMPTY	1.7188	1.7285	1.7236	9.8648e-04	0.0000e+00
80	PAN020136	-19.5986	4.9680	-8.5879	5.8699e+00	8.7026e-01
81	PAN050136	-33.3736	-7.5863	-22.0883	6.6022e+00	1.6809e+00
82	PAN070136	-24.6544	-4.8943	-15.4945	5.4002e+00	8.7086e-01
83	PAN080136	-13.8795	0.3112	-6.4790	3.6624e+00	8.7015e-01
84	PAN090136	-13.1753	-1.2734	-9.3118	2.9992e+00	8.7031e-01
85	PAN100136	-12.1908	13.9781	-0.4781	5.6355e+00	8.7000e-01
86	PAN105136	-7.7020	12.3633	0.0006	4.7551e+00	8.7000e-01
87	PAN110136	-7.1459	13.0720	1.3808	3.1886e+00	8.7001e-01
88	PAN115136	-7.4071	16.3204	-0.7695	3.8046e+00	8.7000e-01
89	PAN120136	-2.4758	4.9247	-0.0786	1.4581e+00	8.7000e-01
90	PAN125136	-4.0487	2.0548	-1.3479	1.2089e+00	8.7001e-01
91	PAN130136	-6.3036	-1.3445	-4.2956	1.3102e+00	8.7007e-01
92	PAN120048	-12.0293	0.7880	-4.7540	3.1004e+00	8.7008e-01
93	PAN130048	-6.0798	8.0345	-1.6640	2.7235e+00	8.7001e-01
94	PAN120224	-12.4417	6.3266	-0.8832	3.5485e+00	8.7000e-01
95	PAN130224	-13.0475	6.9415	-5.7187	3.0585e+00	8.7012e-01
96	PAN120312	-13.7254	4.5852	-4.2436	4.4982e+00	8.7006e-01
97	PAN130312	-9.3782	7.5591	-2.4324	2.9869e+00	8.7002e-01
98	PAB000136	39.7245	40.7774	40.2702	2.9765e-01	5.8867e-01
99	PAB100136	42.1533	43.1146	42.4124	2.2111e-01	5.8961e-01
100	PAB125136	42.3769	42.6516	42.5079	6.4744e-02	5.8966e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.1042	40.6911	39.9587	4.8828e-01	7.5662e-01
102	PRV000001	18.8641	19.1082	18.9861	2.4662e-02	7.5150e-01
103	PSR000001	42.1300	42.3741	42.2447	4.5541e-02	7.5740e-01
104	PFM000001	9.3313	9.6975	9.5254	9.659e-02	5.0057e-01
105	PAN000136	-84.6419	-57.1761	-68.8399	7.7582e+00	4.9230e+00
106	PFM000002	9.4635	9.6145	9.5601	3.6756e-02	2.0142e-01
107	EMPTY	0.0000	0.0098	0.0049	9.8648e-04	0.0000e+00
108	EMPTY	-10.0000	-7.9639	-9.9409	3.0027e-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	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	187.4249	187.8155	187.6123	7.8523e-02	1.3868e+00
113	VPW000002	205.3861	205.7768	205.4994	1.0507e-01	1.4753e+00
114	VPW000003	167.6532	168.2392	167.8642	1.6667e-01	1.2925e+00
115	VPW000004	140.5912	141.3724	140.9272	1.3111e-01	1.1709e+00
116	VPW000005	153.5907	153.9814	153.7470	1.0440e-01	1.2276e+00
117	VPW000006	227.8959	228.4818	228.2552	1.2072e-01	1.5911e+00
118	IPW000001	1495.1949	1501.0519	1498.4756	1.4988e+00	1.4344e+01
119	IPW000002	1105.6569	1111.5106	1108.6620	1.7722e+00	1.1930e+01
120	IPW000003	902.8875	910.6875	906.8264	2.5980e+00	1.0814e+01
121	IPW000004	748.1501	749.6149	748.7849	4.0971e-01	6.2444e+00
122	IPW000005	824.6340	827.5634	826.6254	7.3045e-01	6.8297e+00
123	IPW000006	597.5341	598.5107	598.0415	3.5513e-01	5.1304e+00
124	EMPTY	-0.0244	-0.0098	-0.0176	3.4173e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0127	2.6100e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0139	3.3249e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.1195e-03	0.0000e+00
128	IHT000001	177.5541	180.2885	179.1049	5.9505e-01	4.4741e+00
129	IHT000002	182.5984	185.1375	184.0282	5.5865e-01	4.4941e+00
130	IHT000003	184.0933	186.2417	185.2183	5.3169e-01	4.4990e+00
131	IHT000004	199.8009	202.1447	200.8321	5.5107e-01	4.5655e+00
132	IHT000005	197.0891	199.6282	198.2374	5.4196e-01	4.5541e+00
133	IHT000006	191.4776	193.4307	192.5713	5.1448e-01	4.5297e+00
134	IHT000007	181.5993	183.3571	182.5368	4.9599e-01	4.4880e+00
135	IHT000008	179.7926	181.5505	180.8161	4.6948e-01	4.4810e+00
136	IHT000009	180.4612	182.6097	181.6058	5.1752e-01	4.4842e+00
137	IHT000010	166.7142	169.6439	167.9096	6.1592e-01	4.4305e+00
138	IHT000011	164.0024	166.9321	165.1313	5.9880e-01	4.4200e+00
139	IHT000012	161.0540	163.7883	162.2804	5.9194e-01	4.4095e+00
140	IHT000013	132.8989	135.2426	133.9692	5.9874e-01	4.3133e+00
141	IHT000014	170.3087	172.4572	171.3282	5.8166e-01	4.4436e+00
142	IHT000015	137.4399	139.9790	138.6118	6.3992e-01	4.3280e+00
143	IHT000016	121.1801	123.7192	122.3442	6.0997e-01	4.2786e+00
144	IHT000017	147.5361	151.2470	148.9892	7.6020e-01	4.3623e+00
145	IHT000018	149.9775	152.5165	151.0400	5.5826e-01	4.3694e+00
146	IHT000019	161.0276	163.7620	161.9808	5.4767e-01	4.4084e+00
147	IHT000020	165.8053	168.3443	166.8638	5.2213e-01	4.4266e+00
148	IHT000021	-2.4377	0.4920	-1.2267	6.5078e-01	4.1000e+00
149	IHT000022	136.6324	139.1714	137.6558	5.0618e-01	4.3249e+00
150	IHT000023	162.4925	164.8363	163.4496	5.6531e-01	4.4138e+00
151	IHT000024	127.7381	129.8866	128.6210	5.4138e-01	4.2970e+00
152	IHT000025	145.1209	147.6600	146.4882	6.0232e-01	4.3538e+00
153	IHT000026	147.2656	149.8047	148.4648	6.1131e-01	4.3605e+00
154	IHT000027	123.1783	125.5221	124.2876	5.8453e-01	4.2842e+00
155	IHT000028	124.9474	128.0724	126.1310	6.7012e-01	4.2896e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.6083	149.7333	147.7412	6.2140e-01	4.3581e+00
157	IHT000030	149.3690	152.4940	150.5097	5.9104e-01	4.3675e+00
158	IHT000031	133.8266	136.3657	134.8071	5.7520e-01	4.3159e+00
159	IHT000032	135.6370	138.5667	136.6214	5.8389e-01	4.3216e+00
160	IHT000033	135.6220	138.5517	136.5517	5.9915e-01	4.3214e+00
161	IHT000034	125.1615	127.5053	125.9194	4.6125e-01	4.2890e+00
162	IHT000035	165.0353	167.5744	165.9220	4.9632e-01	4.4230e+00
163	IHT000036	123.4713	125.8150	124.3111	4.8848e-01	4.2843e+00

Test: Aug15_16

sum2

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Velocity 1 = 7.9388 (ft/sec) (+/- 3.1033 %)
Velocity 2 = 7.9368 (ft/sec) (+/- 1.9187 %)
Pressure drop = -2.5136 (psi)
Tsats in = 267.5350 (deg F) Tsats out = 270.8271 (deg F)
Phi inner = 197.0501 (kBtu/hr-ft2) (+/- 1.3853 %)
Phi outer = 201.0332 (kBtu/hr-ft2) (+/- 1.3008 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.7917	83.6390	83.2493	2.0684e-01	1.9001e+00
1	TRF000002	83.4885	83.9098	83.6360	1.0640e-01	1.9001e+00
2	TFM000001	87.0445	87.7801	87.4041	1.6317e-01	1.9002e+00
3	TIN000001	86.3750	87.0073	86.6763	1.4281e-01	1.9002e+00
4	TRV000001	87.7495	88.5874	88.1455	2.2613e-01	1.9002e+00
5	TSR000001	141.4733	145.6756	143.7251	1.2149e+00	1.9037e+00
6	TAO020136	60.5805	63.1599	61.9761	6.3576e-01	1.9000e+00
7	TAO050136	206.0866	208.1917	206.9732	4.6110e-01	1.9126e+00
8	TAO070136	204.1884	209.5925	205.7402	7.9053e-01	1.9124e+00
9	TAO080136	148.9487	150.1462	149.3702	2.5191e-01	1.9042e+00
10	TAO090136	253.3661	255.2279	254.1905	4.0020e-01	1.9227e+00
11	TAO100136	249.8124	251.9598	250.9906	5.0443e-01	1.9219e+00
12	TAO105136	254.8859	256.5652	255.8396	4.0177e-01	1.9231e+00
13	TAO110136	269.0604	270.2524	269.5409	2.7738e-01	1.9266e+00
14	TAO115136	261.2378	262.5398	261.8423	3.5788e-01	1.9246e+00
15	TAO120136	278.0806	279.3682	278.7634	2.4308e-01	1.9291e+00
16	TAO125136	182.8756	184.8248	183.6849	3.6586e-01	1.9087e+00
17	TAO130136	272.1159	274.3895	272.7467	3.7385e-01	1.9275e+00
18	TAO120048	109.7048	110.9432	110.3754	3.2486e-01	1.9011e+00
19	TAO130048	250.8735	251.9895	251.5113	2.3576e-01	1.9221e+00
20	TAO120224	256.0503	257.6338	257.0094	3.7297e-01	1.9234e+00
21	TAO130224	243.3763	245.6064	244.5862	5.0707e-01	1.9204e+00
22	TAO120312	236.7082	238.3122	237.6615	3.7897e-01	1.9188e+00
23	TAO130312	235.3191	236.6365	236.1368	3.0012e-01	1.9185e+00
24	TRT020000	187.2126	188.6776	188.0820	3.5253e-01	1.9094e+00
25	TRT070000	215.4332	217.3561	216.3468	4.2236e-01	1.9144e+00
26	TRT100000	238.3156	239.3487	238.8695	2.7055e-01	1.9191e+00
27	TRT120000	244.3987	246.1784	245.1424	4.0821e-01	1.9206e+00
28	TRT125000	96.1151	97.1551	96.6329	2.3127e-01	1.9005e+00
29	TRT130000	238.3563	239.3898	239.0118	1.9511e-01	1.9191e+00
30	EMPTY	39.3761	40.0646	39.7984	1.9319e-01	1.9011e+00
31	TAF050136	140.1996	143.3085	141.7115	6.7627e-01	1.9035e+00
32	TAF070136	163.7535	166.7043	164.6913	6.5168e-01	1.9060e+00
33	TAF080136	245.4173	250.8049	248.7126	1.1131e+00	1.9214e+00
34	TAF090136	94.6181	95.7656	95.2626	2.3726e-01	1.9004e+00
35	TAF100136	195.8058	197.7457	196.7277	4.9766e-01	1.9108e+00
36	TAF105136	200.9342	203.4236	201.8294	5.4337e-01	1.9117e+00
37	TAF110136	207.4663	208.8065	208.0696	3.6339e-01	1.9128e+00
38	TAF115136	213.9033	215.8109	214.7112	3.9317e-01	1.9141e+00
39	TAF120136	258.9959	261.6771	260.3215	6.7217e-01	1.9242e+00
40	TAF125136	225.3749	227.8256	226.7277	5.3225e-01	1.9165e+00
41	TAF130136	229.7250	231.7084	230.5737	4.3555e-01	1.9173e+00
42	TAF120048	200.2826	202.7095	201.3453	4.8013e-01	1.9116e+00
43	TAF130048	208.9473	212.2030	210.3829	7.6534e-01	1.9132e+00
44	TAF120224	200.3134	203.4904	201.5905	6.0431e-01	1.9116e+00
45	TAF130224	208.4297	211.3204	209.3992	6.5886e-01	1.9130e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1997	2.3973e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8765	1.1992e-01	1.9011e+00
48	TAI130048	245.9593	248.7683	247.8972	5.1143e-01	1.9212e+00
49	TAI130136	275.5808	277.0499	276.3399	3.4989e-01	1.9285e+00
50	TAI130224	241.1764	242.4012	241.6721	3.0444e-01	1.9198e+00
51	TAI130312	245.8502	247.1643	246.5357	3.1564e-01	1.9209e+00
52	TRR130000	141.1029	143.6097	142.6527	6.2187e-01	1.9036e+00
53	TSI000001	66.2622	67.1170	66.7171	1.9275e-01	1.9000e+00
54	TSI000002	103.1824	107.5184	105.3794	8.5310e-01	1.9008e+00
55	TSO000001	65.2373	66.4183	65.8493	2.2669e-01	1.9000e+00
56	TSO000002	79.7793	80.9424	80.3230	2.2910e-01	1.9001e+00
57	TAF020136	104.1432	107.0613	105.8011	6.0180e-01	1.9009e+00
58	TAF120312	187.1115	190.0298	188.2739	8.0209e-01	1.9094e+00
59	TAF130312	200.9579	205.1881	203.4570	1.1496e+00	1.9120e+00
60	EMPTY	3.0615	3.1152	3.0915	1.3881e-02	0.0000e+00
61	EMPTY	3.0615	3.0957	3.0815	8.6140e-03	0.0000e+00
62	EMPTY	3.0615	3.0811	3.0717	5.8227e-03	0.0000e+00
63	EMPTY	3.0615	3.0762	3.0691	4.0864e-03	0.0000e+00
64	EMPTY	1.5283	1.5381	1.5312	2.6267e-03	0.0000e+00
65	EMPTY	1.5430	1.5527	1.5485	2.4184e-03	0.0000e+00
66	EMPTY	1.5576	1.5625	1.5595	2.3941e-03	0.0000e+00
67	EMPTY	1.5674	1.5771	1.5737	2.4662e-03	0.0000e+00
68	EMPTY	1.5771	1.5869	1.5820	2.7902e-03	0.0000e+00
69	EMPTY	1.5869	1.5967	1.5953	2.4244e-03	0.0000e+00
70	EMPTY	1.6016	1.6064	1.6052	2.1635e-03	0.0000e+00
71	EMPTY	1.6211	1.6260	1.6229	2.3675e-03	0.0000e+00
72	EMPTY	1.6309	1.6357	1.6322	2.2146e-03	0.0000e+00
73	EMPTY	1.6455	1.6504	1.6465	1.9730e-03	0.0000e+00
74	EMPTY	1.6553	1.6602	1.6576	2.4642e-03	0.0000e+00
75	EMPTY	1.6650	1.6748	1.6713	2.6174e-03	0.0000e+00
76	EMPTY	1.6748	1.6846	1.6802	1.7784e-03	0.0000e+00
77	EMPTY	1.6943	1.6992	1.6951	1.8082e-03	0.0000e+00
78	EMPTY	1.7090	1.7139	1.7131	1.8082e-03	0.0000e+00
79	EMPTY	1.7285	1.7334	1.7314	2.4164e-03	0.0000e+00
80	PAN020136	-19.7512	7.1043	-8.8687	7.1222e+00	8.7028e-01
81	PAN050136	-32.4581	-4.8397	-20.9377	5.9021e+00	1.6808e+00
82	PAN070136	-24.5781	-2.7580	-14.8064	5.7551e+00	8.7079e-01
83	PAN080136	-13.8795	-0.4518	-8.0506	3.2826e+00	8.7023e-01
84	PAN090136	-13.0990	-3.2571	-9.3820	3.0595e+00	8.7032e-01
85	PAN100136	-7.3842	13.5966	1.9587	4.6333e+00	8.7001e-01
86	PAN105136	-7.7020	10.2271	-1.1316	3.2576e+00	8.7000e-01
87	PAN110136	-2.5682	22.9902	1.4860	4.4032e+00	8.7001e-01
88	PAN115136	-4.2790	2.5111	-1.4012	1.6112e+00	8.7001e-01
89	PAN120136	-4.6883	3.0174	-1.0018	1.7214e+00	8.7000e-01
90	PAN125136	-3.4383	3.0467	-0.5163	1.5393e+00	8.7000e-01
91	PAN130136	-7.4481	-2.4889	-4.4848	1.1229e+00	8.7007e-01
92	PAN120048	-11.9530	3.7635	-4.2748	3.7422e+00	8.7007e-01
93	PAN130048	-9.2079	12.7648	-0.2785	4.4494e+00	8.7000e-01
94	PAN120224	-6.7196	6.7844	-0.3048	2.8805e+00	8.7000e-01
95	PAN130224	-10.9113	3.0505	-5.3662	2.6269e+00	8.7010e-01
96	PAN120312	-13.8017	2.1437	-4.1520	4.3010e+00	8.7006e-01
97	PAN130312	-8.3864	2.3711	-3.4425	1.9150e+00	8.7004e-01
98	PAB000136	39.6788	40.5027	40.1118	2.2006e-01	5.8861e-01
99	PAB100136	42.0160	42.9773	42.1909	1.5244e-01	5.8951e-01
100	PAB125136	42.2396	42.5143	42.3806	5.5366e-02	5.8960e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.1042	40.6911	39.9416	4.4869e-01	7.5662e-01
102	PRV0000001	19.1082	19.3524	19.2303	2.4662e-02	7.5154e-01
103	PSR0000001	42.1300	42.2521	42.1788	6.0409e-02	7.5738e-01
104	PFM0000001	9.4229	9.7891	9.5620	9.4748e-02	5.0057e-01
105	PAN000136	-84.1841	-56.2606	-69.5906	7.6864e+00	4.9231e+00
106	PFM0000002	9.4635	9.6984	9.5571	6.1685e-02	2.0142e-01
107	EMPTY	0.0000	0.0195	0.0052	2.2945e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0046	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	VPW0000001	187.2296	187.8155	187.5029	1.4764e-01	1.3863e+00
113	VPW0000002	205.1908	205.5815	205.4330	9.3043e-02	1.4749e+00
114	VPW0000003	167.6532	168.0439	167.7705	1.2478e-01	1.2920e+00
115	VPW0000004	140.5912	141.1771	140.8452	1.2001e-01	1.1706e+00
116	VPW0000005	153.3954	153.7861	153.6572	1.1578e-01	1.2272e+00
117	VPW0000006	227.8959	228.4818	228.2669	1.3235e-01	1.5912e+00
118	IPW0000001	1499.0996	1504.9567	1502.3405	1.2228e+00	1.4369e+01
119	IPW0000002	1103.7056	1107.6082	1105.7347	1.1800e+00	1.1913e+01
120	IPW0000003	902.8875	906.7875	904.7983	1.1479e+00	1.0803e+01
121	IPW0000004	751.0798	753.0329	751.6364	4.7320e-01	6.2657e+00
122	IPW0000005	823.1693	824.6340	823.8820	3.5852e-01	6.8090e+00
123	IPW0000006	597.5341	598.9990	598.1587	4.5249e-01	5.1313e+00
124	EMPTY	-0.0244	-0.0098	-0.0163	4.2556e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0117	2.9594e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0119	2.9856e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	3.0501e-03	0.0000e+00
128	IHT0000001	178.1400	180.2885	179.1869	5.2461e-01	4.4745e+00
129	IHT0000002	182.9890	185.3328	184.0751	5.2669e-01	4.4943e+00
130	IHT0000003	184.2886	186.4370	185.2613	5.1974e-01	4.4991e+00
131	IHT0000004	199.8009	201.9494	200.8868	5.3693e-01	4.5657e+00
132	IHT0000005	197.0891	199.4328	198.3429	5.5676e-01	4.5546e+00
133	IHT0000006	191.4776	193.8214	192.6026	5.4184e-01	4.5299e+00
134	IHT0000007	181.5993	183.7477	182.5563	5.4140e-01	4.4881e+00
135	IHT0000008	179.9880	181.7458	180.8278	5.0262e-01	4.4811e+00
136	IHT0000009	180.4612	182.8050	181.5433	5.0872e-01	4.4839e+00
137	IHT0000010	166.5189	169.0580	167.9331	5.4328e-01	4.4306e+00
138	IHT0000011	163.8071	166.1509	165.0923	5.3972e-01	4.4199e+00
139	IHT0000012	160.8586	163.5930	162.2609	5.8353e-01	4.4094e+00
140	IHT0000013	132.8989	135.0473	133.9106	4.9864e-01	4.3131e+00
141	IHT0000014	170.5041	172.2619	171.3517	5.0933e-01	4.4437e+00
142	IHT0000015	137.4399	139.5883	138.5727	4.6354e-01	4.3278e+00
143	IHT0000016	121.3755	123.5239	122.3638	4.4888e-01	4.2787e+00
144	IHT0000017	148.7079	151.0517	149.8838	5.8326e-01	4.3654e+00
145	IHT0000018	150.1728	152.7119	151.2197	6.0330e-01	4.3700e+00
146	IHT0000019	161.0276	163.7620	162.0238	6.1034e-01	4.4085e+00
147	IHT0000020	165.8053	168.5396	166.8951	6.2899e-01	4.4267e+00
148	IHT0000021	-2.2424	0.8827	-1.1252	7.5184e-01	4.1000e+00
149	IHT0000022	136.8277	139.1714	137.6909	5.8273e-01	4.3250e+00
150	IHT0000023	162.6878	164.8363	163.4848	5.4653e-01	4.4139e+00
151	IHT0000024	127.9334	130.0819	128.7264	5.0749e-01	4.2973e+00
152	IHT0000025	145.7069	148.0506	146.6366	6.1455e-01	4.3543e+00
153	IHT0000026	147.4609	150.0000	148.5313	6.0905e-01	4.3608e+00
154	IHT0000027	123.1783	125.3268	124.3189	6.0407e-01	4.2843e+00
155	IHT0000028	124.9474	128.0724	126.1466	6.8800e-01	4.2897e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.8036	149.7333	147.8896	7.0494e-01	4.3586e+00
157	IHT000030	149.5643	152.2987	150.6933	6.8378e-01	4.3682e+00
158	IHT000031	133.8266	136.5610	134.9243	7.0132e-01	4.3163e+00
159	IHT000032	135.4417	137.9808	136.7230	6.8704e-01	4.3220e+00
160	IHT000033	135.4267	137.9657	136.6728	6.9575e-01	4.3218e+00
161	IHT000034	124.9662	127.1146	125.9546	5.6000e-01	4.2891e+00
162	IHT000035	164.6447	167.1837	165.8868	5.7691e-01	4.4229e+00
163	IHT000036	123.2760	125.4244	124.3228	5.2313e-01	4.2843e+00

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Velocity 1 = 0.015500 (ft/sec)

Velocity 2 = 0.000800 (ft/sec)

Pressure Drop = 0.027100 (psi)

Tsat in = 0.235107 (deg F) Tsat out = 0.180115 (deg F)

Phi inner = 0.195602 (kBtu/hr-ft2) Phi outer = 0.072693 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0551	0.0662
1	TRF000002	0.0632	0.0756
2	TFM000001	0.6799	0.7840
3	TIN000001	0.6526	0.7586
4	TRV000001	0.7446	0.8519
5	TSR000001	4.9071	3.5349
6	TAO020136	7.1939	13.1318
7	TAO050136	0.6159	0.2985
8	TAO070136	0.7689	0.3751
9	TAO080136	0.4451	0.2971
10	TAO090136	0.5808	0.2290
11	TAO100136	1.2319	0.4932
12	TAO105136	1.1535	0.4529
13	TAO110136	0.9791	0.3646
14	TAO115136	0.8738	0.3348
15	TAO120136	0.3936	0.1414
16	TAO125136	2.8236	1.5612
17	TAO130136	0.8882	0.3267
18	TAO120048	0.5603	0.5051
19	TAO130048	0.9830	0.3924
20	TAO120224	0.7707	0.3008
21	TAO130224	1.0490	0.4307
22	TAO120312	0.7888	0.3330
23	TAO130312	0.8429	0.3582
24	TRT020000	0.6407	0.3418
25	TRT070000	0.4035	0.1869
26	TRT100000	0.7776	0.3266
27	TRT120000	1.0081	0.4129
28	TRT125000	2.4617	2.4842
29	TRT130000	1.0596	0.4453
30	EMPTY	0.0459	0.1155
31	TAF050136	0.7946	0.5639
32	TAF070136	0.5476	0.3336
33	TAF080136	0.9142	0.3689
34	TAF090136	1.0792	1.1202
35	TAF100136	0.5199	0.2650
36	TAF105136	0.5169	0.2568
37	TAF110136	0.4402	0.2120
38	TAF115136	0.5076	0.2370
39	TAF120136	0.4037	0.1553
40	TAF125136	0.6517	0.2883
41	TAF130136	0.6120	0.2661
42	TAF120048	0.9010	0.4495
43	TAF130048	0.9502	0.4537
44	TAF120224	0.6819	0.3394
45	TAF130224	0.6130	0.2936

#	Name	Abs Diff	%Diff
46	EMPTY	0.1057	0.2775
47	EMPTY	0.0275	0.0689
48	TAI130048	1.1685	0.4736
49	TAI130136	0.7638	0.2772
50	TAI130224	0.9649	0.4009
51	TAI130312	0.9832	0.4004
52	TRR130000	1.3066	0.9244
53	TSI000001	0.0337	0.0505
54	TSI000002	1.6211	1.5150
55	TSO000001	0.1333	0.2020
56	TSO000002	0.0762	0.0950
57	TAF020136	0.5166	0.4907
58	TAF120312	0.8837	0.4716
59	TAF130312	1.1389	0.5629
60	EMPTY	0.0256	0.8350
61	EMPTY	0.0249	0.8146
62	EMPTY	0.0249	0.8173
63	EMPTY	0.0237	0.7782
64	EMPTY	0.0093	0.6111
65	EMPTY	0.0090	0.5846
66	EMPTY	0.0085	0.5480
67	EMPTY	0.0084	0.5366
68	EMPTY	0.0082	0.5210
69	EMPTY	0.0083	0.5230
70	EMPTY	0.0086	0.5386
71	EMPTY	0.0075	0.4643
72	EMPTY	0.0078	0.4802
73	EMPTY	0.0066	0.4025
74	EMPTY	0.0074	0.4484
75	EMPTY	0.0068	0.4085
76	EMPTY	0.0062	0.3704
77	EMPTY	0.0068	0.4028
78	EMPTY	0.0072	0.4221
79	EMPTY	0.0078	0.4525
80	PAN020136	0.2808	3.2697
81	PAN050136	1.1506	5.2091
82	PAN070136	0.6881	4.4409
83	PAN080136	1.5716	24.2568
84	PAN090136	0.0702	0.7539
85	PAN100136	2.4368	509.6842
86	PAN105136	1.1322	188699.9844
87	PAN110136	0.1052	7.6188
88	PAN115136	0.6317	82.0923
89	PAN120136	0.9232	1174.5547
90	PAN125136	0.8316	61.6960
91	PAN130136	0.1892	4.4045
92	PAN120048	0.4792	10.0799
93	PAN130048	1.3855	83.2632
94	PAN120224	0.5784	65.4891
95	PAN130224	0.3525	6.1640
96	PAN120312	0.0916	2.1585
97	PAN130312	1.0101	41.5269
98	PAB000136	0.1584	0.3933
99	PAB100136	0.2215	0.5223
100	PAB125136	0.1273	0.2995

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0171	0.0428
102	PRV000001	0.2442	1.2862
103	PSR000001	0.0659	0.1560
104	PFM000001	0.0366	0.3842
105	PAN000136	0.7507	1.0905
106	PFM000002	0.0030	0.0314
107	EMPTY	0.0003	6.1224
108	EMPTY	0.0591	0.5945
109	EMPTY	0.0004	8.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.1094	0.0583
113	VPW000002	0.0664	0.0323
114	VPW000003	0.0937	0.0558
115	VPW000004	0.0820	0.0582
116	VPW000005	0.0898	0.0584
117	VPW000006	0.0117	0.0051
118	IPW000001	3.8649	0.2579
119	IPW000002	2.9272	0.2640
120	IPW000003	2.0281	0.2237
121	IPW000004	2.8515	0.3808
122	IPW000005	2.7434	0.3319
123	IPW000006	0.1172	0.0196
124	EMPTY	0.0013	7.3864
125	EMPTY	0.0010	7.8740
126	EMPTY	0.0020	14.3885
127	EMPTY	0.0008	4.8193
128	IHT000001	0.0820	0.0458
129	IHT000002	0.0469	0.0255
130	IHT000003	0.0430	0.0232
131	IHT000004	0.0547	0.0272
132	IHT000005	0.1055	0.0532
133	IHT000006	0.0313	0.0163
134	IHT000007	0.0195	0.0107
135	IHT000008	0.0117	0.0065
136	IHT000009	0.0625	0.0344
137	IHT000010	0.0235	0.0140
138	IHT000011	0.0390	0.0236
139	IHT000012	0.0195	0.0120
140	IHT000013	0.0586	0.0437
141	IHT000014	0.0235	0.0137
142	IHT000015	0.0391	0.0282
143	IHT000016	0.0196	0.0160
144	IHT000017	0.8946	0.6005
145	IHT000018	0.1797	0.1190
146	IHT000019	0.0430	0.0265
147	IHT000020	0.0313	0.0188
148	IHT000021	0.1015	8.2742
149	IHT000022	0.0351	0.0255
150	IHT000023	0.0352	0.0215
151	IHT000024	0.1054	0.0819
152	IHT000025	0.1484	0.1013
153	IHT000026	0.0665	0.0448
154	IHT000027	0.0313	0.0252
155	IHT000028	0.0156	0.0124

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dif

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#	Name	Abs Dif	%Dif
156	IHT000029	0.1484	0.1005
157	IHT000030	0.1836	0.1220
158	IHT000031	0.1172	0.0869
159	IHT000032	0.1016	0.0744
160	IHT000033	0.1211	0.0887
161	IHT000034	0.0352	0.0279
162	IHT000035	0.0352	0.0212
163	IHT000036	0.0117	0.0094

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sum1

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Velocity 1 = 7.5029 (ft/sec) (+/- 3.3748 %)

Velocity 2 = 7.5102 (ft/sec) (+/- 1.9759 %)

Pressure drop = -2.6102 (psi)

Tsats in = 267.5854 (deg F) Tsats out = 271.1894 (deg F)

Phi inner = 196.0231 (kBtu/hr-ft2) (+/- 1.3878 %)

Phi outer = 201.3052 (kBtu/hr-ft2) (+/- 1.3012 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.9089	85.5434	85.2220	1.9692e-01	1.9002e+00
1	TRF000002	85.3831	85.8038	85.5935	1.2018e-01	1.9002e+00
2	TFM000001	88.1005	89.0444	88.5376	1.8157e-01	1.9002e+00
3	TIN000001	87.4292	87.9550	87.7577	1.4204e-01	1.9002e+00
4	TRV000001	88.5984	89.7499	89.1346	2.4450e-01	1.9002e+00
5	TSR000001	142.6883	143.8901	143.2728	2.6968e-01	1.9036e+00
6	TAO020136	58.8598	60.9050	59.9147	5.6875e-01	1.9001e+00
7	TAO050136	210.3980	212.0183	211.0967	3.6912e-01	1.9134e+00
8	TAO070136	211.9002	215.0707	213.8299	6.9482e-01	1.9139e+00
9	TAO080136	160.2602	161.7441	160.9846	3.7979e-01	1.9056e+00
10	TAO090136	263.3041	264.9696	264.2545	3.9256e-01	1.9253e+00
11	TAO100136	260.9836	263.1163	261.9850	5.2002e-01	1.9247e+00
12	TAO105136	266.6079	268.2766	267.4720	3.7368e-01	1.9261e+00
13	TAO110136	279.3094	280.8581	280.1595	3.3035e-01	1.9295e+00
14	TAO115136	271.7126	273.6524	272.8025	4.7493e-01	1.9275e+00
15	TAO120136	287.2593	288.3575	287.8519	2.5776e-01	1.9317e+00
16	TAO125136	182.3001	184.2496	183.2246	3.8590e-01	1.9086e+00
17	TAO130136	282.9299	284.4711	283.4458	3.9732e-01	1.9304e+00
18	TAO120048	114.9585	116.0887	115.6363	3.2137e-01	1.9014e+00
19	TAO130048	259.8867	260.9073	260.3841	2.4034e-01	1.9243e+00
20	TAO120224	266.3577	267.5613	267.0689	2.8445e-01	1.9260e+00
21	TAO130224	254.6058	255.9008	255.2319	3.2267e-01	1.9230e+00
22	TAO120312	244.9943	246.7779	246.0984	4.1915e-01	1.9208e+00
23	TAO130312	243.5834	245.1754	244.4343	3.1134e-01	1.9204e+00
24	TRT020000	192.3802	193.4514	192.9218	3.1594e-01	1.9102e+00
25	TRT070000	221.2823	223.4836	222.2783	4.2584e-01	1.9156e+00
26	TRT100000	245.9110	247.1271	246.4685	3.3830e-01	1.9209e+00
27	TRT120000	253.2820	254.8659	253.9933	4.2180e-01	1.9227e+00
28	TRT125000	103.5694	104.6027	104.1361	2.0794e-01	1.9008e+00
29	TRT130000	246.7944	247.7308	247.3113	1.8937e-01	1.9211e+00
30	EMPTY	39.3761	40.2940	39.8673	2.0740e-01	1.9011e+00
31	TAF050136	144.9216	148.0189	146.3017	7.0495e-01	1.9039e+00
32	TAF070136	170.0535	173.2871	170.8820	6.2149e-01	1.9068e+00
33	TAF080136	254.3389	258.8664	256.5072	1.0168e+00	1.9233e+00
34	TAF090136	97.7493	99.1029	98.5115	2.9983e-01	1.9005e+00
35	TAF100136	203.9347	206.0568	204.9961	4.9064e-01	1.9122e+00
36	TAF105136	208.9695	211.0634	209.9707	4.2884e-01	1.9132e+00
37	TAF110136	216.0616	218.0583	217.0820	3.9448e-01	1.9145e+00
38	TAF115136	222.7582	225.3190	223.7984	4.6378e-01	1.9159e+00
39	TAF120136	262.7992	264.7362	263.5953	5.5823e-01	1.9251e+00
40	TAF125136	236.3765	239.4583	237.5115	6.2689e-01	1.9188e+00
41	TAF130136	240.2763	241.4951	240.8871	3.5624e-01	1.9196e+00
42	TAF120048	206.3848	208.8003	207.4555	5.9062e-01	1.9127e+00
43	TAF130048	215.4576	219.0807	217.1554	6.3193e-01	1.9145e+00
44	TAF120224	208.5832	210.3082	209.3773	4.5427e-01	1.9130e+00
45	TAF130224	216.2181	217.8485	217.0465	3.7907e-01	1.9145e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1583	1.9842e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9683	1.1440e-01	1.9011e+00
48	TAI130048	257.0765	258.7509	257.9210	3.7864e-01	1.9236e+00
49	TAI130136	282.9181	283.8341	283.3327	2.1508e-01	1.9304e+00
50	TAI130224	250.4783	252.0706	251.1231	4.2964e-01	1.9220e+00
51	TAI130312	256.8877	258.4726	257.6337	3.0186e-01	1.9236e+00
52	TRR130000	149.8100	151.5016	150.5831	3.9883e-01	1.9044e+00
53	TSI000001	66.4868	67.3403	66.8365	2.1248e-01	1.9000e+00
54	TSI000002	105.2588	110.4115	107.6317	1.1178e+00	1.9010e+00
55	TSO000001	65.5547	66.5212	66.0703	2.1251e-01	1.9000e+00
56	TSO000002	80.7350	81.7916	81.3265	2.6744e-01	1.9001e+00
57	TAF020136	106.6375	110.4832	108.3096	9.0411e-01	1.9010e+00
58	TAF120312	193.0445	196.9176	194.8888	9.4627e-01	1.9105e+00
59	TAF130312	208.1713	213.0515	210.4113	1.3857e+00	1.9132e+00
60	EMPTY	3.1885	3.2617	3.2226	2.2135e-02	0.0000e+00
61	EMPTY	3.1885	3.2373	3.2100	1.6915e-02	0.0000e+00
62	EMPTY	3.1787	3.2227	3.1974	1.3764e-02	0.0000e+00
63	EMPTY	3.1787	3.2129	3.1951	1.0840e-02	0.0000e+00
64	EMPTY	1.5820	1.5967	1.5869	4.4117e-03	0.0000e+00
65	EMPTY	1.5967	1.6113	1.6042	5.4220e-03	0.0000e+00
66	EMPTY	1.6064	1.6211	1.6154	4.6647e-03	0.0000e+00
67	EMPTY	1.6211	1.6357	1.6299	5.3123e-03	0.0000e+00
68	EMPTY	1.6309	1.6455	1.6385	5.2348e-03	0.0000e+00
69	EMPTY	1.6357	1.6553	1.6508	4.9166e-03	0.0000e+00
70	EMPTY	1.6553	1.6650	1.6610	4.3773e-03	0.0000e+00
71	EMPTY	1.6699	1.6846	1.6789	4.3405e-03	0.0000e+00
72	EMPTY	1.6797	1.6943	1.6873	4.0864e-03	0.0000e+00
73	EMPTY	1.6943	1.7090	1.7027	3.2777e-03	0.0000e+00
74	EMPTY	1.7090	1.7285	1.7143	4.0482e-03	0.0000e+00
75	EMPTY	1.7139	1.7334	1.7271	3.0003e-03	0.0000e+00
76	EMPTY	1.7334	1.7383	1.7364	2.3941e-03	0.0000e+00
77	EMPTY	1.7480	1.7529	1.7513	2.3365e-03	0.0000e+00
78	EMPTY	1.7627	1.7725	1.7679	2.0716e-03	0.0000e+00
79	EMPTY	1.7822	1.7871	1.7862	1.8950e-03	0.0000e+00
80	PAN020136	-19.6749	1.6874	-9.4134	4.8538e+00	8.7032e-01
81	PAN050136	-36.4254	-11.0958	-22.8146	6.6227e+00	1.6810e+00
82	PAN070136	-24.5781	-5.2757	-17.2157	5.3626e+00	8.7106e-01
83	PAN080136	-13.8032	2.4474	-5.8152	3.5854e+00	8.7012e-01
84	PAN090136	-13.1753	2.6939	-7.2091	4.4860e+00	8.7019e-01
85	PAN100136	-5.9346	18.3268	1.3209	5.8525e+00	8.7001e-01
86	PAN105136	-3.4295	3.5132	-0.5121	1.4968e+00	8.7000e-01
87	PAN110136	-5.6963	1.4754	-2.3027	1.6851e+00	8.7002e-01
88	PAN115136	-7.4834	1.5193	-2.2008	2.0808e+00	8.7002e-01
89	PAN120136	-4.5357	5.6114	-0.4921	1.8644e+00	8.7000e-01
90	PAN125136	-6.0323	-0.0814	-3.9770	1.2965e+00	8.7006e-01
91	PAN130136	-2.6415	2.9279	-1.0851	1.2619e+00	8.7000e-01
92	PAN120048	-8.0621	11.9270	-1.9097	5.1225e+00	8.7001e-01
93	PAN130048	-6.6902	-1.1207	-3.8307	1.3297e+00	8.7005e-01
94	PAN120224	-5.9567	9.9887	-1.6339	3.8146e+00	8.7001e-01
95	PAN130224	-9.3091	-2.5190	-5.7187	1.6159e+00	8.7012e-01
96	PAN120312	-13.7254	-1.8235	-8.0293	3.0959e+00	8.7023e-01
97	PAN130312	-8.6152	1.3793	-4.3367	2.3031e+00	8.7007e-01
98	PAB000136	39.7245	40.7316	40.1457	2.5175e-01	5.8862e-01
99	PAB100136	42.0160	42.3822	42.2037	9.9284e-02	5.8952e-01
100	PAB125136	42.5143	42.8347	42.6370	7.2491e-02	5.8971e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9821	40.8132	39.9196	5.0568e-01	7.5661e-01
102	PRV000001	19.7186	19.8406	19.7698	6.0861e-02	7.5163e-01
103	PSR000001	42.3741	42.4962	42.4254	6.0861e-02	7.5746e-01
104	PFM000001	8.3242	8.7820	8.5275	8.9263e-02	5.0045e-01
105	PAN000136	-86.4730	-54.8873	-72.2639	7.8146e+00	4.9233e+00
106	PFM000002	8.4735	8.6580	8.5443	4.3319e-02	2.0114e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-8.5889	-9.9200	2.8250e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0041	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	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	187.4249	187.8155	187.5654	1.3111e-01	1.3866e+00
113	VPW000002	205.3861	205.9721	205.5775	1.4493e-01	1.4756e+00
114	VPW000003	167.6532	168.0439	167.8212	1.1844e-01	1.2923e+00
115	VPW000004	140.5912	141.1771	140.9233	1.2633e-01	1.1709e+00
116	VPW000005	153.3954	154.3720	153.7080	1.4227e-01	1.2275e+00
117	VPW000006	228.0912	228.6771	228.3216	1.1632e-01	1.5915e+00
118	IPW000001	1508.8613	1520.5753	1516.2808	2.8715e+00	1.4460e+01
119	IPW000002	1080.2904	1101.7543	1090.0856	7.2849e+00	1.1822e+01
120	IPW000003	891.1875	898.9875	894.5412	1.4226e+00	1.0749e+01
121	IPW000004	752.5446	754.4977	753.5212	4.3000e-01	6.2798e+00
122	IPW000005	824.6340	827.5634	825.6887	7.9132e-01	6.8227e+00
123	IPW000006	595.0927	598.5107	597.0063	9.5051e-01	5.1229e+00
124	EMPTY	-0.0293	-0.0146	-0.0190	4.0971e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0129	2.9197e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0149	3.6124e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.3829e-03	0.0000e+00
128	IHT000001	177.9447	179.8978	179.0658	5.0503e-01	4.4740e+00
129	IHT000002	182.9890	184.9422	183.9852	4.6730e-01	4.4939e+00
130	IHT000003	184.2886	186.0464	185.1793	4.7541e-01	4.4988e+00
131	IHT000004	199.6056	201.5587	200.6993	5.1599e-01	4.5649e+00
132	IHT000005	197.0891	199.2375	198.1632	4.7227e-01	4.5538e+00
133	IHT000006	191.2823	193.6261	192.4580	5.2717e-01	4.5292e+00
134	IHT000007	181.4040	183.5524	182.5680	4.9750e-01	4.4881e+00
135	IHT000008	179.7926	181.9411	180.8473	5.0532e-01	4.4811e+00
136	IHT000009	180.4612	182.6097	181.5081	5.0649e-01	4.4838e+00
137	IHT000010	166.7142	169.0580	167.8706	5.5361e-01	4.4304e+00
138	IHT000011	164.0024	166.1509	164.9946	5.4511e-01	4.4195e+00
139	IHT000012	160.8586	163.5930	162.0890	5.8693e-01	4.4088e+00
140	IHT000013	132.7036	134.8520	133.8052	5.0186e-01	4.3128e+00
141	IHT000014	170.1134	172.2619	171.2149	5.2609e-01	4.4431e+00
142	IHT000015	137.6352	139.1977	138.4595	4.4867e-01	4.3275e+00
143	IHT000016	121.3755	123.1333	122.2544	4.6730e-01	4.2784e+00
144	IHT000017	147.7314	150.8564	149.2627	8.2143e-01	4.3632e+00
145	IHT000018	149.9775	152.3212	151.0596	5.5972e-01	4.3694e+00
146	IHT000019	160.8323	163.9573	162.1722	5.6498e-01	4.4091e+00
147	IHT000020	165.6100	168.3443	166.8365	5.7998e-01	4.4264e+00
148	IHT000021	-2.8283	0.4920	-1.0822	6.4163e-01	4.1000e+00
149	IHT000022	136.2417	138.7808	137.6011	5.1744e-01	4.3247e+00
150	IHT000023	162.2972	164.2503	163.3285	4.8011e-01	4.4133e+00
151	IHT000024	127.5428	129.4959	128.4413	4.9285e-01	4.2965e+00
152	IHT000025	145.5116	147.6600	146.5741	5.3838e-01	4.3541e+00
153	IHT000026	147.2656	149.6094	148.4102	5.5525e-01	4.3603e+00
154	IHT000027	122.9830	125.1315	124.1822	5.3381e-01	4.2839e+00
155	IHT000028	124.5568	127.4865	126.0802	7.2759e-01	4.2895e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.2177	149.3427	147.7568	7.1315e-01	4.3581e+00
157	IHT000030	149.1737	152.1033	150.5058	6.9776e-01	4.3675e+00
158	IHT000031	133.4360	136.7563	134.7524	7.1552e-01	4.3158e+00
159	IHT000032	135.2464	138.3714	136.5941	7.2464e-01	4.3215e+00
160	IHT000033	135.0361	138.3564	136.5439	7.3296e-01	4.3214e+00
161	IHT000034	124.5756	126.7240	125.8217	5.6894e-01	4.2887e+00
162	IHT000035	164.6447	166.9884	165.7501	5.8342e-01	4.4224e+00
163	IHT000036	123.0807	125.2291	124.1236	4.8103e-01	4.2838e+00

Test: Aug15_21

sum2

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Velocity 1 = 7.5060 (ft/sec) (+/- 3.3726 %)
Velocity 2 = 7.5107 (ft/sec) (+/- 1.9758 %)
Pressure drop = -2.6290 (psi)
Tsats in = 257.7253 (deg F) Tsats out = 271.4072 (deg F)
Phi inner = 196.3615 (kBtu/hr-ft2) (+/- 1.3872 %)
Phi outer = 200.9904 (kBtu/hr-ft2) (+/- 1.3010 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.1204	85.5434	85.3785	1.7244e-01	1.9002e+00
1	TRF000002	85.3831	86.0140	85.7449	1.2775e-01	1.9002e+00
2	TFM000001	87.9966	88.8363	88.3349	2.0465e-01	1.9002e+00
3	TIN000001	87.2191	87.8505	87.5750	1.3258e-01	1.9002e+00
4	TRV000001	88.4950	89.2285	88.9498	1.7898e-01	1.9002e+00
5	TSR000001	143.9897	145.9901	144.9601	4.1315e-01	1.9038e+00
6	TAO020136	61.0117	63.0534	62.1621	3.9327e-01	1.9000e+00
7	TAO050136	210.0182	211.7352	210.9091	3.9161e-01	1.9133e+00
8	TAO070136	211.9001	215.0712	213.3205	6.7678e-01	1.9138e+00
9	TAO080136	159.7713	160.7581	160.2381	2.2114e-01	1.9055e+00
10	TAO090136	263.3051	265.0623	264.1831	3.9486e-01	1.9252e+00
11	TAO100136	260.7056	262.5596	261.6205	3.9987e-01	1.9246e+00
12	TAO105136	266.2375	267.8127	267.0292	3.3550e-01	1.9260e+00
13	TAO110136	279.4038	280.5884	280.0536	2.5519e-01	1.9295e+00
14	TAO115136	271.5276	273.3755	272.3983	5.0415e-01	1.9274e+00
15	TAO120136	286.9843	288.2660	287.4882	2.5773e-01	1.9316e+00
16	TAO125136	183.2757	184.3472	183.8429	2.7266e-01	1.9087e+00
17	TAO130136	282.4830	284.0209	283.1680	3.5260e-01	1.9304e+00
18	TAO120048	114.7533	115.8837	115.3844	3.0215e-01	1.9014e+00
19	TAO130048	259.6111	260.8151	260.1573	2.8035e-01	1.9242e+00
20	TAO120224	266.0806	267.1919	266.6310	2.6075e-01	1.9259e+00
21	TAO130224	254.4234	255.8117	255.0471	3.2074e-01	1.9229e+00
22	TAO120312	244.8068	247.2462	246.0818	4.4867e-01	1.9208e+00
23	TAO130312	243.8654	245.1764	244.4856	2.5572e-01	1.9204e+00
24	TRT020000	191.8936	193.6460	192.8691	3.4534e-01	1.9101e+00
25	TRT070000	221.4737	223.1013	222.3830	3.6606e-01	1.9156e+00
26	TRT100000	245.5383	247.0340	246.3590	3.8840e-01	1.9208e+00
27	TRT120000	253.3745	254.8654	254.0181	3.3577e-01	1.9227e+00
28	TRT125000	100.6843	101.3073	101.0475	1.5140e-01	1.9006e+00
29	TRT130000	246.8890	247.5445	247.2093	1.8540e-01	1.9210e+00
30	EMPTY	39.6057	40.2940	39.8765	2.0573e-01	1.9011e+00
31	TAF050136	144.7241	147.2204	145.9690	5.9725e-01	1.9039e+00
32	TAF070136	169.2708	172.7991	170.4618	7.7907e-01	1.9068e+00
33	TAF080136	254.1583	258.2218	256.2297	9.3615e-01	1.9232e+00
34	TAF090136	97.9581	99.1031	98.6139	2.6431e-01	1.9006e+00
35	TAF100136	203.8385	205.6707	204.7359	4.4953e-01	1.9122e+00
36	TAF105136	208.2081	210.4937	209.6318	4.7281e-01	1.9131e+00
37	TAF110136	216.0639	217.4896	216.6818	3.6880e-01	1.9144e+00
38	TAF115136	222.7597	224.3714	223.3498	3.3264e-01	1.9158e+00
39	TAF120136	262.0585	264.6444	263.4726	6.1772e-01	1.9251e+00
40	TAF125136	235.8174	237.9665	236.9841	4.9765e-01	1.9187e+00
41	TAF130136	239.8075	241.3086	240.4359	3.5278e-01	1.9195e+00
42	TAF120048	205.9969	209.2838	207.2751	6.7648e-01	1.9127e+00
43	TAF130048	216.3163	218.6048	217.0664	5.4401e-01	1.9145e+00
44	TAF120224	208.0105	210.1176	208.8779	4.7984e-01	1.9129e+00
45	TAF130224	215.9298	217.3683	216.6453	3.7334e-01	1.9144e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1721	2.0541e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9912	1.2645e-01	1.9011e+00
48	TAI130048	256.9839	258.9369	257.8265	4.4886e-01	1.9236e+00
49	TAI130136	282.9203	283.8352	283.3609	2.1212e-01	1.9304e+00
50	TAI130224	250.4783	251.8839	251.2075	3.3604e-01	1.9220e+00
51	TAI130312	256.5157	258.0069	257.4420	3.3175e-01	1.9235e+00
52	TRR130000	150.3083	151.9023	151.1116	3.8618e-01	1.9044e+00
53	TSI000001	66.4868	67.2342	66.9928	1.7365e-01	1.9000e+00
54	TSI000002	105.1582	109.2811	106.5340	9.2720e-01	1.9009e+00
55	TSO000001	65.6622	66.5207	66.1064	1.7613e-01	1.9000e+00
56	TSO000002	80.9467	81.7916	81.3543	2.2985e-01	1.9001e+00
57	TAF020136	106.5318	109.7570	108.0033	8.0522e-01	1.9010e+00
58	TAF120312	192.1711	196.4336	194.6433	9.2325e-01	1.9104e+00
59	TAF130312	208.2673	213.0515	210.4025	1.3224e+00	1.9132e+00
60	EMPTY	3.1885	3.2520	3.2146	1.6850e-02	0.0000e+00
61	EMPTY	3.1787	3.2275	3.2024	1.2242e-02	0.0000e+00
62	EMPTY	3.1689	3.2031	3.1907	9.9243e-03	0.0000e+00
63	EMPTY	3.1738	3.1982	3.1886	8.4567e-03	0.0000e+00
64	EMPTY	1.5771	1.5918	1.5839	3.9323e-03	0.0000e+00
65	EMPTY	1.5967	1.6064	1.6014	3.9410e-03	0.0000e+00
66	EMPTY	1.6064	1.6162	1.6119	3.6433e-03	0.0000e+00
67	EMPTY	1.6211	1.6309	1.6257	3.6124e-03	0.0000e+00
68	EMPTY	1.6309	1.6406	1.6350	3.4681e-03	0.0000e+00
69	EMPTY	1.6455	1.6504	1.6477	2.4484e-03	0.0000e+00
70	EMPTY	1.6504	1.6602	1.6572	2.6100e-03	0.0000e+00
71	EMPTY	1.6699	1.6797	1.6749	3.3439e-03	0.0000e+00
72	EMPTY	1.6797	1.6895	1.6830	2.5034e-03	0.0000e+00
73	EMPTY	1.6943	1.7041	1.6984	2.8523e-03	0.0000e+00
74	EMPTY	1.7041	1.7188	1.7104	2.6562e-03	0.0000e+00
75	EMPTY	1.7188	1.7285	1.7229	2.4184e-03	0.0000e+00
76	EMPTY	1.7285	1.7383	1.7325	2.1364e-03	0.0000e+00
77	EMPTY	1.7432	1.7529	1.7476	2.2603e-03	0.0000e+00
78	EMPTY	1.7627	1.7676	1.7644	2.3365e-03	0.0000e+00
79	EMPTY	1.7822	1.7871	1.7826	1.3381e-03	0.0000e+00
80	PAN020136	-17.0809	4.7391	-8.4399	5.0112e+00	8.7026e-01
81	PAN050136	-34.5943	-9.8751	-23.1075	6.0782e+00	1.6810e+00
82	PAN070136	-23.4337	-5.2757	-15.4243	4.3908e+00	8.7085e-01
83	PAN080136	-13.8032	1.3030	-6.1357	3.5811e+00	8.7014e-01
84	PAN090136	-13.1753	1.7020	-7.5250	3.8394e+00	8.7020e-01
85	PAN100136	-4.4088	27.4058	2.2425	7.0552e+00	8.7002e-01
86	PAN105136	-3.8873	2.8266	-0.6479	1.5782e+00	8.7000e-01
87	PAN110136	-6.0777	2.3909	-2.2218	1.9312e+00	8.7002e-01
88	PAN115136	-6.7204	1.9771	-2.2938	2.1030e+00	8.7002e-01
89	PAN120136	-4.0780	3.8566	-0.6814	1.9180e+00	8.7000e-01
90	PAN125136	-6.0323	-1.6073	-4.4866	1.1443e+00	8.7007e-01
91	PAN130136	-3.7096	4.1486	-0.1208	1.6882e+00	8.7000e-01
92	PAN120048	-12.0293	8.1886	-4.1268	3.9345e+00	8.7006e-01
93	PAN130048	-8.3687	7.1190	-3.9192	2.6477e+00	8.7006e-01
94	PAN120224	-7.5589	11.4383	-2.6257	3.6895e+00	8.7002e-01
95	PAN130224	-9.3091	-1.6797	-4.7773	1.6413e+00	8.7008e-01
96	PAN120312	-13.7254	-4.0361	-7.6738	2.9009e+00	8.7021e-01
97	PAN130312	-6.8605	3.5918	-3.6195	2.1668e+00	8.7005e-01
98	PAB000136	39.8161	40.5943	40.2400	2.1999e-01	5.8866e-01
99	PAB100136	42.1533	42.4738	42.3227	8.5889e-02	5.8957e-01
100	PAB125136	42.6516	43.0178	42.7917	8.4968e-02	5.8978e-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	PIN000001	39.2263	40.6911	40.0832	4.3874e-01	7.5666e-01
102	PRV000001	19.7186	19.8406	19.7772	6.1605e-02	7.5163e-01
103	PSR000001	42.4962	42.6183	42.5646	6.1209e-02	7.5751e-01
104	PFM000001	8.3242	8.7820	8.5348	8.5264e-02	5.0046e-01
105	PAN000136	-84.6419	-59.0071	-72.7858	7.3133e+00	4.9234e+00
106	PFM000002	8.4399	8.6748	8.5456	4.4233e-02	2.0114e-01
107	EMPTY	-0.0049	0.0049	0.0042	2.2080e-03	0.0000e+00
108	EMPTY	-10.0000	-4.8096	-9.7228	9.9259e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0033	2.5034e-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	187.4249	187.8155	187.5889	1.0705e-01	1.3867e+00
113	VPW000002	205.3861	205.7768	205.5775	1.1497e-01	1.4756e+00
114	VPW000003	167.4579	168.6298	167.8017	1.7451e-01	1.2922e+00
115	VPW000004	140.7865	141.3724	140.9272	1.3111e-01	1.1709e+00
116	VPW000005	153.5907	153.9814	153.7627	9.3710e-02	1.2277e+00
117	VPW000006	228.0912	228.6771	228.3216	1.2283e-01	1.5915e+00
118	IPW000001	1508.8613	1512.7660	1511.0474	1.3457e+00	1.4426e+01
119	IPW000002	1093.9492	1099.8031	1096.9934	1.3747e+00	1.1862e+01
120	IPW000003	897.0375	900.9375	898.4808	1.2953e+00	1.0770e+01
121	IPW000004	747.6618	749.6149	748.7458	4.1019e-01	6.2441e+00
122	IPW000005	623.1693	824.6340	823.8430	3.1022e-01	6.8087e+00
123	IPW000006	595.0927	596.0693	595.6099	3.1828e-01	5.1127e+00
124	EMPTY	-0.0244	-0.0146	-0.0187	3.5141e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0133	3.2777e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0149	3.3322e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0173	3.1521e-03	0.0000e+00
128	IHT000001	177.9447	180.4838	179.1518	6.2849e-01	4.4743e+00
129	IHT000002	182.9890	185.5281	184.0985	5.7105e-01	4.4944e+00
130	IHT000003	184.0933	186.4370	185.2300	6.2227e-01	4.4990e+00
131	IHT000004	199.6056	202.5353	200.7930	6.5773e-01	4.5653e+00
132	IHT000005	197.0891	199.8235	198.2921	6.5359e-01	4.5543e+00
133	IHT000006	191.4776	194.2120	192.5596	5.9479e-01	4.5297e+00
134	IHT000007	181.4040	184.1384	182.5797	5.6150e-01	4.4882e+00
135	IHT000008	179.7926	182.5270	180.8473	5.3815e-01	4.4811e+00
136	IHT000009	180.4612	183.3909	181.5980	5.5621e-01	4.4842e+00
137	IHT000010	166.7142	169.4486	168.0151	5.7536e-01	4.4309e+00
138	IHT000011	164.0024	166.5415	165.0766	5.5978e-01	4.4198e+00
139	IHT000012	161.0540	163.3977	162.1984	5.4962e-01	4.4092e+00
140	IHT000013	132.7036	134.8520	133.8677	5.2342e-01	4.3130e+00
141	IHT000014	170.1134	172.4572	171.2813	5.2123e-01	4.4434e+00
142	IHT000015	137.2446	139.7837	138.4868	5.4069e-01	4.3276e+00
143	IHT000016	120.9848	123.5239	122.2427	5.4983e-01	4.2784e+00
144	IHT000017	147.5361	151.0517	149.2275	7.1639e-01	4.3631e+00
145	IHT000018	149.9775	152.5165	151.0439	6.1156e-01	4.3694e+00
146	IHT000019	161.2230	163.7620	162.2621	6.1693e-01	4.4094e+00
147	IHT000020	165.6100	168.1490	166.8326	5.9295e-01	4.4264e+00
148	IHT000021	-2.6330	0.1014	-1.2228	6.7807e-01	4.1000e+00
149	IHT000022	136.4371	138.5855	137.5777	5.3867e-01	4.3247e+00
150	IHT000023	162.1019	164.4456	163.2582	5.5921e-01	4.4131e+00
151	IHT000024	127.3475	129.6913	128.4178	5.4568e-01	4.2964e+00
152	IHT000025	145.3163	147.6600	146.4843	5.7790e-01	4.3538e+00
153	IHT000026	147.2656	149.6094	148.3555	5.5955e-01	4.3602e+00
154	IHT000027	123.3737	125.5221	124.2290	5.5086e-01	4.2841e+00
155	IHT000028	124.7521	127.6818	126.0451	7.1233e-01	4.2894e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.4130	149.5380	147.7763	6.7944e-01	4.3582e+00
157	IHT000030	149.3690	152.2987	150.5136	6.4839e-01	4.3675e+00
158	IHT000031	133.4360	135.9751	134.7798	6.0443e-01	4.3158e+00
159	IHT000032	135.4417	138.1761	136.5902	6.1970e-01	4.3215e+00
160	IHT000033	135.2314	138.1611	136.5595	6.1511e-01	4.3214e+00
161	IHT000034	124.9662	127.1146	125.7358	5.0749e-01	4.2885e+00
162	IHT000035	164.8400	166.7931	165.7579	5.2977e-01	4.4224e+00
163	IHT000036	123.0807	126.0104	124.1822	5.4926e-01	4.2839e+00

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Velocity 1 = 0.003100 (ft/sec)

Velocity 2 = 0.000500 (ft/sec)

Pressure Drop = 0.018800 (psi)

Tsat in = 0.139923 (deg F) Tsat out = 0.217804 (deg F)

Phi inner = 0.338394 (kBtu/hr-ft2) Phi outer = 0.314804 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1565	0.1836
1	TRF000002	0.1514	0.1769
2	TFM000001	0.2027	0.2289
3	TIN000001	0.1827	0.2082
4	TRV000001	0.1848	0.2073
5	TSR000001	1.6873	1.1777
6	TAO020136	2.2474	3.7510
7	TAO050136	0.1876	0.0889
8	TAO070136	0.5094	0.2382
9	TAO080136	0.7465	0.4637
10	TAO090136	0.0714	0.0270
11	TAO100136	0.3645	0.1391
12	TAO105136	0.4428	0.1655
13	TAO110136	0.1059	0.0378
14	TAO115136	0.4042	0.1482
15	TAO120136	0.3637	0.1264
16	TAO125136	0.6183	0.3375
17	TAO130136	0.2778	0.0980
18	TAO120048	0.2519	0.2178
19	TAO130048	0.2268	0.0871
20	TAO120224	0.4379	0.1640
21	TAO130224	0.1848	0.0724
22	TAO120312	0.0166	0.0067
23	TAO130312	0.0513	0.0210
24	TRT020000	0.0527	0.0273
25	TRT070000	0.1047	0.0471
26	TRT100000	0.1095	0.0444
27	TRT120000	0.0248	0.0098
28	TRT125000	3.0886	2.9659
29	TRT130000	0.1020	0.0412
30	EMPTY	0.0092	0.0231
31	TAF050136	0.3327	0.2274
32	TAF070136	0.4202	0.2459
33	TAF080136	0.2775	0.1082
34	TAF090136	0.1024	0.1039
35	TAF100136	0.2602	0.1269
36	TAF105136	0.3389	0.1614
37	TAF110136	0.4002	0.1844
38	TAF115136	0.4486	0.2005
39	TAF120136	0.1227	0.0466
40	TAF125136	0.5274	0.2221
41	TAF130136	0.4512	0.1873
42	TAF120048	0.1804	0.0870
43	TAF130048	0.0890	0.0410
44	TAF120224	0.4994	0.2385
45	TAF130224	0.4012	0.1848

#	Name	Abs Diff	%Diff
46	EMPTY	0.0138	0.0362
47	EMPTY	0.0229	0.0573
48	TAI130048	0.0945	0.0366
49	TAI130136	0.0282	0.0100
50	TAI130224	0.0844	0.0336
51	TAI130312	0.1917	0.0744
52	TRR130000	0.5285	0.3510
53	TSI000001	0.1563	0.2338
54	TSI000002	1.0977	1.0199
55	TSO000001	0.0361	0.0546
56	TSO000002	0.0278	0.0342
57	TAF020136	0.3063	0.2828
58	TAF120312	0.2455	0.1260
59	TAF130312	0.0088	0.0042
60	EMPTY	0.0080	0.2482
61	EMPTY	0.0076	0.2368
62	EMPTY	0.0067	0.2095
63	EMPTY	0.0065	0.2034
64	EMPTY	0.0030	0.1890
65	EMPTY	0.0028	0.1745
66	EMPTY	0.0035	0.2167
67	EMPTY	0.0042	0.2577
68	EMPTY	0.0035	0.2136
69	EMPTY	0.0031	0.1878
70	EMPTY	0.0038	0.2288
71	EMPTY	0.0040	0.2382
72	EMPTY	0.0043	0.2548
73	EMPTY	0.0043	0.2525
74	EMPTY	0.0039	0.2275
75	EMPTY	0.0042	0.2432
76	EMPTY	0.0039	0.2246
77	EMPTY	0.0037	0.2113
78	EMPTY	0.0035	0.1980
79	EMPTY	0.0036	0.2015
80	PAN020136	0.9735	10.3416
81	PAN050136	0.2929	1.2838
82	PAN070136	1.7914	10.4056
83	PAN080136	0.3205	5.5114
84	PAN090136	0.3159	4.3820
85	PAN100136	0.9216	69.7706
86	PAN105136	0.1358	26.5183
87	PAN110136	0.0809	3.5133
88	PAN115136	0.0930	4.2257
89	PAN120136	0.1893	38.4678
90	PAN125136	0.5096	12.8137
91	PAN130136	0.9643	88.8674
92	PAN120048	2.2171	116.0968
93	PAN130048	0.0885	2.3103
94	PAN120224	0.9918	60.7014
95	PAN130224	0.9414	16.4618
96	PAN120312	0.3555	4.4275
97	PAN130312	0.7172	16.5379
98	PAB000136	0.0943	0.2349
99	PAB100136	0.1190	0.2820
100	PAB125136	0.1547	0.3628

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1636	0.4098
102	PRV000001	0.0074	0.0374
103	PSR000001	0.1392	0.3281
104	PFM000001	0.0073	0.0856
105	PAN000136	0.5219	0.7222
106	PFM000002	0.0013	0.0152
107	EMPTY	0.0007	14.2857
108	EMPTY	0.1972	1.9879
109	EMPTY	0.0008	19.5122
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0235	0.0125
113	VPW000002	0.0000	0.0000
114	VPW000003	0.0195	0.0116
115	VPW000004	0.0039	0.0028
116	VPW000005	0.0547	0.0356
117	VPW000006	0.0000	0.0000
118	IPW000001	5.2334	0.3451
119	IPW000002	6.9078	0.6337
120	IPW000003	3.9396	0.4404
121	IPW000004	4.7754	0.6337
122	IPW000005	1.8457	0.2235
123	IPW000006	1.3964	0.2339
124	EMPTY	0.0003	1.5789
125	EMPTY	0.0004	3.1008
126	EMPTY	0.0000	0.0000
127	EMPTY	0.0009	5.4878
128	IHT000001	0.0860	0.0480
129	IHT000002	0.1133	0.0616
130	IHT000003	0.0507	0.0274
131	IHT000004	0.0937	0.0467
132	IHT000005	0.1289	0.0651
133	IHT000006	0.1016	0.0528
134	IHT000007	0.0117	0.0064
135	IHT000008	0.0000	0.0000
136	IHT000009	0.0899	0.0495
137	IHT000010	0.1445	0.0861
138	IHT000011	0.0820	0.0497
139	IHT000012	0.1094	0.0675
140	IHT000013	0.0625	0.0467
141	IHT000014	0.0664	0.0388
142	IHT000015	0.0273	0.0197
143	IHT000016	0.0117	0.0096
144	IHT000017	0.0352	0.0236
145	IHT000018	0.0157	0.0104
146	IHT000019	0.0899	0.0554
147	IHT000020	0.0039	0.0023
148	IHT000021	0.1406	12.9921
149	IHT000022	0.0234	0.0170
150	IHT000023	0.0703	0.0430
151	IHT000024	0.0235	0.0183
152	IHT000025	0.0898	0.0613
153	IHT000026	0.0547	0.0369
154	IHT000027	0.0468	0.0377
155	IHT000028	0.0351	0.0278

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0195	0.0132
157	IHT000030	0.0078	0.0052
158	IHT000031	0.0274	0.0203
159	IHT000032	0.0039	0.0029
160	IHT000033	0.0156	0.0114
161	IHT000034	0.0859	0.0683
162	IHT000035	0.0078	0.0047
163	IHT000036	0.0586	0.0472

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sum1

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Velocity 1 = 7.3075 (ft/sec) (+/- 3.5153 %)
Velocity 2 = 7.3006 (ft/sec) (+/- 2.0096 %)
Pressure drop = -2.6704 (psi)
Tsats in = 267.5064 (deg F) Tsats out = 271.1713 (deg F)
Phi inner = 196.0148 (kBtu/hr-ft2) (+/- 1.3884 %)
Phi outer = 201.2924 (kBtu/hr-ft2) (+/- 1.3010 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	85.1204	85.9662	85.4757	2.0236e-01	1.9002e+00
1	TRF0000002	85.5935	86.0140	85.8711	1.2341e-01	1.9002e+00
2	TFM0000001	87.6828	88.4186	88.0481	1.9219e-01	1.9002e+00
3	TIN0000001	87.1138	87.7463	87.3374	1.3731e-01	1.9002e+00
4	TRV0000001	88.1825	89.1245	88.6434	2.0723e-01	1.9002e+00
5	TSR0000001	141.7868	143.7906	142.7380	5.1862e-01	1.9036e+00
6	TAO020136	60.9045	63.4825	62.0352	5.2644e-01	1.9000e+00
7	TAO050136	213.2584	214.9717	214.0838	4.3669e-01	1.9139e+00
8	TAO070136	214.5903	218.5214	216.8159	6.9170e-01	1.9145e+00
9	TAO080136	160.2637	161.7459	161.3023	2.7944e-01	1.9056e+00
10	TAO090136	267.0005	269.0313	268.3527	4.7673e-01	1.9263e+00
11	TAO100136	265.7076	268.0170	266.7166	5.2681e-01	1.9259e+00
12	TAO105136	271.6996	273.0851	272.4424	3.3180e-01	1.9274e+00
13	TAO110136	283.8599	285.0420	284.5709	2.6827e-01	1.9308e+00
14	TAO115136	277.3396	279.0892	278.0249	3.7631e-01	1.9289e+00
15	TAO120136	292.1026	293.0159	292.5518	2.0613e-01	1.9331e+00
16	TAO125136	183.7630	185.0293	184.5346	2.7185e-01	1.9088e+00
17	TAO130136	285.7343	287.0892	286.2881	3.2667e-01	1.9313e+00
18	TAO120048	112.4921	113.5223	113.0074	2.9474e-01	1.9012e+00
19	TAO130048	263.4021	264.6051	263.9060	2.7210e-01	1.9252e+00
20	TAO120224	270.8864	272.1786	271.6181	3.0741e-01	1.9272e+00
21	TAO130224	258.6686	260.1445	259.3978	3.5887e-01	1.9240e+00
22	TAO120312	249.4955	251.2735	250.2296	4.1789e-01	1.9218e+00
23	TAO130312	247.1378	248.3531	247.7135	2.6185e-01	1.9212e+00
24	TRT020000	194.3258	196.0752	195.1659	3.3761e-01	1.9105e+00
25	TRT070000	224.5358	226.4466	225.5102	4.1615e-01	1.9162e+00
26	TRT100000	248.8064	250.3930	249.7692	3.1341e-01	1.9216e+00
27	TRT120000	256.5402	258.3999	257.4666	4.3192e-01	1.9235e+00
28	TRT125000	97.1715	98.1065	97.6942	1.9673e-01	1.9005e+00
29	TRT130000	248.7569	249.8782	249.2802	2.2491e-01	1.9215e+00
30	EMPTY	39.1464	40.2940	39.8260	2.7020e-01	1.9011e+00
31	TAF050136	145.8231	149.1196	147.5058	7.5140e-01	1.9040e+00
32	TAF070136	171.6247	174.3651	172.6345	5.7898e-01	1.9071e+00
33	TAF080136	257.5769	260.8967	259.3969	7.5706e-01	1.9240e+00
34	TAF090136	96.1887	97.4393	96.7145	3.2761e-01	1.9005e+00
35	TAF100136	206.8275	209.2336	208.2096	4.9827e-01	1.9128e+00
36	TAF105136	212.2032	214.7654	213.2673	5.3322e-01	1.9138e+00
37	TAF110136	220.0537	221.8558	220.7287	4.4474e-01	1.9152e+00
38	TAF115136	226.3589	228.4417	227.2910	4.7267e-01	1.9166e+00
39	TAF120136	264.8289	266.3988	265.6337	3.7187e-01	1.9256e+00
40	TAF125136	239.9256	242.3515	240.9749	5.8658e-01	1.9196e+00
41	TAF130136	244.2113	246.9234	245.4464	5.3072e-01	1.9206e+00
42	TAF120048	209.7652	212.7548	211.3979	7.2705e-01	1.9134e+00
43	TAF130048	219.1755	221.9330	220.5763	6.1342e-01	1.9152e+00
44	TAF120224	211.9344	214.4193	212.9020	5.0224e-01	1.9137e+00
45	TAF130224	219.8591	222.9194	221.0836	6.7100e-01	1.9153e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.2549	1.7154e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.1059	1.2854e-01	1.9011e+00
48	TAI130048	259.9602	262.3742	260.9923	5.4562e-01	1.9244e+00
49	TAI130136	284.2911	285.4789	284.8905	2.6898e-01	1.9309e+00
50	TAI130224	253.6614	255.1564	254.4203	3.4180e-01	1.9228e+00
51	TAI130312	260.5203	262.8442	261.5536	5.3566e-01	1.9246e+00
52	TRR130000	151.7034	152.9967	152.2640	2.8901e-01	1.9046e+00
53	TSI000001	66.5936	67.4482	67.0381	2.1499e-01	1.9000e+00
54	TSI000002	106.0883	110.2059	108.7825	9.1797e-01	1.9010e+00
55	TSO000001	65.6622	66.5202	66.1211	2.1470e-01	1.9000e+00
56	TSO000002	81.1578	82.2141	81.7534	2.0774e-01	1.9001e+00
57	TAF020136	107.0522	110.4826	108.4790	8.2686e-01	1.9010e+00
58	TAF120312	195.6600	199.0441	197.2465	9.2051e-01	1.9109e+00
59	TAF130312	211.1391	216.0104	213.4756	1.3119e+00	1.9138e+00
60	EMPTY	3.2617	3.3301	3.2931	1.7032e-02	0.0000e+00
61	EMPTY	3.2568	3.3008	3.2799	1.1031e-02	0.0000e+00
62	EMPTY	3.2520	3.2764	3.2664	8.2511e-03	0.0000e+00
63	EMPTY	3.2471	3.2715	3.2621	6.2265e-03	0.0000e+00
64	EMPTY	1.6064	1.6211	1.6153	3.2253e-03	0.0000e+00
65	EMPTY	1.6260	1.6357	1.6322	3.5623e-03	0.0000e+00
66	EMPTY	1.6357	1.6455	1.6420	3.6963e-03	0.0000e+00
67	EMPTY	1.6504	1.6602	1.6552	3.4863e-03	0.0000e+00
68	EMPTY	1.6553	1.6699	1.6639	3.0501e-03	0.0000e+00
69	EMPTY	1.6699	1.6797	1.6764	3.4793e-03	0.0000e+00
70	EMPTY	1.6797	1.6895	1.6846	3.4173e-03	0.0000e+00
71	EMPTY	1.6992	1.7041	1.7021	2.4344e-03	0.0000e+00
72	EMPTY	1.7041	1.7139	1.7111	2.8179e-03	0.0000e+00
73	EMPTY	1.7236	1.7334	1.7257	2.6267e-03	0.0000e+00
74	EMPTY	1.7334	1.7383	1.7360	2.4583e-03	0.0000e+00
75	EMPTY	1.7480	1.7529	1.7492	2.1065e-03	0.0000e+00
76	EMPTY	1.7529	1.7627	1.7578	1.3951e-03	0.0000e+00
77	EMPTY	1.7676	1.7725	1.7723	9.6655e-04	0.0000e+00
78	EMPTY	1.7871	1.7969	1.7888	2.5362e-03	0.0000e+00
79	EMPTY	1.8018	1.8066	1.8065	6.9053e-04	0.0000e+00
80	PAN020136	-19.6749	5.9598	-9.8986	6.3975e+00	8.7035e-01
81	PAN050136	-34.8995	-11.4010	-22.5002	6.0956e+00	1.6809e+00
82	PAN070136	-24.6544	-8.7090	-18.0656	4.7333e+00	8.7117e-01
83	PAN080136	-12.7351	2.4474	-4.1581	3.5297e+00	8.7006e-01
84	PAN090136	-13.1753	4.0672	-7.2732	4.5847e+00	8.7019e-01
85	PAN100136	-6.1635	27.7110	1.6551	7.1436e+00	8.7001e-01
86	PAN105136	-7.5494	1.9873	-1.1361	1.9711e+00	8.7000e-01
87	PAN110136	-7.2222	1.0939	-2.6476	1.9361e+00	8.7003e-01
88	PAN115136	-5.1182	2.1297	-1.5462	1.6110e+00	8.7001e-01
89	PAN120136	-2.9335	1.1100	-1.4840	8.2402e-01	8.7001e-01
90	PAN125136	-2.8280	-0.7680	-1.6515	3.5118e-01	8.7001e-01
91	PAN130136	-2.7178	-1.3445	-2.1151	2.8847e-01	8.7002e-01
92	PAN120048	-9.9694	6.2812	-4.3160	3.4362e+00	8.7007e-01
93	PAN130048	-7.9872	0.5577	-4.4288	1.9311e+00	8.7007e-01
94	PAN120224	-9.4662	-1.3028	-6.0574	1.8437e+00	8.7013e-01
95	PAN130224	-8.4699	0.8380	-3.6710	2.2801e+00	8.7005e-01
96	PAN120312	-13.3439	-1.7472	-6.6133	2.6913e+00	8.7016e-01
97	PAN130312	-8.9204	1.3793	-5.6901	2.2564e+00	8.7012e-01
98	PAB000136	39.5872	40.6858	40.0926	2.5960e-01	5.8860e-01
99	PAB100136	42.0160	42.4280	42.2330	8.2101e-02	5.8953e-01
100	PAB125136	42.4227	42.7431	42.6241	8.3234e-02	5.8971e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	38.9821	40.6911	39.8928	4.8903e-01	7.5660e-01
102	PRV0000001	19.7186	19.8406	19.8358	2.4164e-02	7.5164e-01
103	PSR0000001	42.3741	42.7404	42.5255	8.7402e-02	7.5750e-01
104	PFM0000001	7.8665	8.2327	8.0844	9.2279e-02	5.0041e-01
105	PAN000136	-86.9307	-59.4649	-73.9302	7.1229e+00	4.9235e+00
106	PFM0000002	7.9701	8.1547	8.0687	4.0771e-02	2.0101e-01
107	EMPTY	-0.0049	0.0049	0.0041	2.2839e-03	0.0000e+00
108	EMPTY	-10.0000	-8.9209	-9.9784	1.5261e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0036	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	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	187.2296	187.8155	187.5264	1.2627e-01	1.3864e+00
113	VPW0000002	205.3861	205.7768	205.5658	1.4139e-01	1.4756e+00
114	VPW0000003	167.4579	168.0439	167.7666	1.3141e-01	1.2920e+00
115	VPW0000004	140.7865	141.1771	140.9585	1.2251e-01	1.1711e+00
116	VPW0000005	153.5907	153.9814	153.7627	1.0168e-01	1.2277e+00
117	VPW0000006	228.0912	228.4818	228.3177	1.1409e-01	1.5915e+00
118	IPW0000001	1518.6230	1522.5277	1520.0680	1.1023e+00	1.4485e+01
119	IPW0000002	1088.0955	1093.9492	1090.3977	1.5109e+00	1.1824e+01
120	IPW0000003	889.2375	895.0875	893.0592	1.5238e+00	1.0742e+01
121	IPW0000004	752.5446	754.4977	753.3747	3.8523e-01	6.2787e+00
122	IPW0000005	823.1693	825.1222	824.2336	3.9072e-01	6.8117e+00
123	IPW0000006	594.6044	597.0458	595.7563	5.2903e-01	5.1138e+00
124	EMPTY	-0.0293	-0.0098	-0.0192	4.1161e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	3.0067e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0147	3.1950e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.4173e-03	0.0000e+00
128	IHT0000001	177.9447	180.0931	179.0776	5.6221e-01	4.4740e+00
129	IHT0000002	182.9890	184.9422	183.9774	5.4163e-01	4.4939e+00
130	IHT0000003	183.8980	186.2417	185.1011	5.6132e-01	4.4985e+00
131	IHT0000004	199.6056	201.7540	200.6876	5.4990e-01	4.5648e+00
132	IHT0000005	196.8938	199.2375	198.1866	5.5508e-01	4.5539e+00
133	IHT0000006	191.2823	193.4307	192.5166	5.1816e-01	4.5295e+00
134	IHT0000007	181.2087	183.5524	182.5915	5.3502e-01	4.4882e+00
135	IHT0000008	179.5973	181.9411	180.9137	5.4649e-01	4.4814e+00
136	IHT0000009	180.4612	182.6097	181.6097	5.1394e-01	4.4842e+00
137	IHT0000010	166.7142	169.0580	167.7807	5.3118e-01	4.4300e+00
138	IHT0000011	163.8071	166.1509	164.9165	5.2710e-01	4.4192e+00
139	IHT0000012	160.8586	163.3977	162.1007	5.4069e-01	4.4088e+00
140	IHT0000013	132.7036	135.0473	133.8286	5.0310e-01	4.3129e+00
141	IHT0000014	169.9181	172.4572	171.2032	5.3392e-01	4.4431e+00
142	IHT0000015	137.2446	139.5883	138.5298	5.3828e-01	4.3277e+00
143	IHT0000016	121.1801	123.3286	122.3403	5.0749e-01	4.2786e+00
144	IHT0000017	147.1454	151.0517	149.2080	6.8591e-01	4.3631e+00
145	IHT0000018	149.3915	152.5165	151.1025	6.5621e-01	4.3696e+00
146	IHT0000019	160.6370	163.1761	161.8168	6.2634e-01	4.4078e+00
147	IHT0000020	165.2193	167.5631	166.3951	6.0937e-01	4.4248e+00
148	IHT0000021	-2.8283	0.2967	-1.5119	6.9341e-01	4.1000e+00
149	IHT0000022	136.0464	138.3902	137.1480	5.2313e-01	4.3233e+00
150	IHT0000023	161.9066	164.0550	162.9301	5.5602e-01	4.4119e+00
151	IHT0000024	126.9569	129.3006	128.0819	5.4471e-01	4.2954e+00
152	IHT0000025	145.1209	147.4647	146.3007	5.7040e-01	4.3532e+00
153	IHT0000026	147.0703	149.4141	148.1133	5.8873e-01	4.3593e+00
154	IHT0000027	122.9830	125.3268	124.0025	5.1037e-01	4.2834e+00
155	IHT0000028	124.7521	127.2912	126.0997	5.7352e-01	4.2895e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.6083	148.9521	147.7959	5.5501e-01	4.3583e+00
157	IHT000030	149.1737	152.1033	150.5370	5.8059e-01	4.3676e+00
158	IHT000031	133.4360	136.3657	134.8345	5.9759e-01	4.3160e+00
159	IHT000032	135.2464	137.9808	136.6410	6.2641e-01	4.3217e+00
160	IHT000033	135.0361	137.9657	136.5908	6.3987e-01	4.3215e+00
161	IHT000034	124.9662	126.9193	125.8647	5.0223e-01	4.2888e+00
162	IHT000035	164.8400	166.9884	165.7931	5.4909e-01	4.4225e+00
163	IHT000036	123.4713	125.6197	124.2915	5.0378e-01	4.2843e+00

Velocity 1 = 7.3147 (ft/sec) (+/- 3.5098 %)
Velocity 2 = 7.3072 (ft/sec) (+/- 2.0085 %)
Pressure drop = -2.6922 (psi)
Tsat in = 267.3497 (deg F) Tsat out = 270.9567 (deg F)
Phi inner = 197.5316 (kBtu/hr-ft2) (+/- 1.3823 %)
Phi outer = 201.5621 (kBtu/hr-ft2) (+/- 1.3007 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.3319	85.9662	85.6660	1.7657e-01	1.9002e+00
1	TRF000002	85.8038	86.2243	85.9510	1.3599e-01	1.9002e+00
2	TFM000001	87.2647	88.2084	87.7217	2.3301e-01	1.9002e+00
3	TIN000001	86.6933	87.4302	86.9675	1.5622e-01	1.9002e+00
4	TRV000001	87.8694	89.1259	88.4021	2.3439e-01	1.9002e+00
5	TSR000001	143.4914	145.2927	144.5640	3.8417e-01	1.9037e+00
6	TAO020136	62.0871	65.1990	63.6844	7.8810e-01	1.9000e+00
7	TAO050136	212.1156	214.3068	212.9357	4.5114e-01	1.9137e+00
8	TAO070136	214.8779	217.7550	216.1676	7.1846e-01	1.9143e+00
9	TAO080136	159.8706	161.4490	160.6802	3.5399e-01	1.9055e+00
10	TAO090136	266.7242	268.5723	267.8183	4.6270e-01	1.9262e+00
11	TAO100136	264.9677	267.0947	265.9186	5.2921e-01	1.9257e+00
12	TAO105136	270.9600	273.3627	271.8180	4.7165e-01	1.9272e+00
13	TAO110136	283.3172	284.4097	283.8528	2.8307e-01	1.9306e+00
14	TAO115136	276.6952	278.0768	277.5685	2.8353e-01	1.9288e+00
15	TAO120136	291.6462	292.6510	292.1507	2.1386e-01	1.9330e+00
16	TAO125136	183.8606	185.1283	184.5432	3.2816e-01	1.9088e+00
17	TAO130136	285.9148	287.0924	286.4347	2.7230e-01	1.9313e+00
18	TAO120048	115.2685	116.2946	115.8347	2.7060e-01	1.9014e+00
19	TAO130048	262.8494	264.0519	263.5560	2.3321e-01	1.9251e+00
20	TAO120224	269.8714	271.1654	270.6367	3.0314e-01	1.9269e+00
21	TAO130224	257.4716	259.3169	258.6295	4.0422e-01	1.9238e+00
22	TAO120312	248.6537	250.8064	249.7769	4.2421e-01	1.9216e+00
23	TAO130312	246.6716	247.8867	247.3221	2.9612e-01	1.9211e+00
24	TRT020000	194.0344	195.2982	194.7540	2.7138e-01	1.9105e+00
25	TRT070000	224.4393	226.0638	225.2270	4.5036e-01	1.9162e+00
26	TRT100000	248.7139	250.3001	249.4903	3.6568e-01	1.9216e+00
27	TRT120000	256.2618	258.4004	257.3148	4.5839e-01	1.9235e+00
28	TRT125000	102.8527	103.7829	103.1924	2.2098e-01	1.9007e+00
29	TRT130000	248.6638	249.5992	249.1204	2.5354e-01	1.9215e+00
30	EMPTY	39.3761	40.2940	39.7847	2.1891e-01	1.9011e+00
31	TAF050136	145.4264	149.1178	147.0275	8.0791e-01	1.9040e+00
32	TAF070136	170.7444	173.5831	171.9467	6.8790e-01	1.9070e+00
33	TAF080136	257.2071	260.2548	258.9261	7.5816e-01	1.9239e+00
34	TAF090136	98.9991	100.1432	99.5897	2.4893e-01	1.9006e+00
35	TAF100136	206.2490	208.6565	207.3975	4.9243e-01	1.9127e+00
36	TAF105136	211.4456	214.1992	212.4944	4.8903e-01	1.9136e+00
37	TAF110136	219.0104	221.0977	219.8192	3.7746e-01	1.9151e+00
38	TAF115136	225.5094	227.4022	226.5275	4.3083e-01	1.9164e+00
39	TAF120136	264.3686	265.9384	265.0519	3.9447e-01	1.9255e+00
40	TAF125136	238.9939	241.1387	239.8982	5.2552e-01	1.9193e+00
41	TAF130136	244.2113	246.6448	245.4247	5.3821e-01	1.9206e+00
42	TAF120048	209.3788	211.9836	210.7109	5.4228e-01	1.9133e+00
43	TAF130048	218.4143	221.0786	219.9644	5.4615e-01	1.9151e+00
44	TAF120224	211.2658	212.8923	212.0159	3.6454e-01	1.9135e+00
45	TAF130224	218.9975	220.9108	219.9469	3.8563e-01	1.9151e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1813	1.6747e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9821	1.1126e-01	1.9011e+00
48	TAI130048	259.3097	262.0031	260.7885	6.6848e-01	1.9244e+00
49	TAI130136	284.1089	285.2058	284.8329	2.5496e-01	1.9308e+00
50	TAI130224	253.4743	254.9700	254.2485	3.4151e-01	1.9227e+00
51	TAI130312	260.2408	261.6363	260.8511	3.6104e-01	1.9244e+00
52	TRR130000	151.3050	154.1895	152.6507	7.0089e-01	1.9046e+00
53	TSI000001	66.5947	67.4482	66.9879	1.7834e-01	1.9000e+00
54	TSI000002	105.5716	110.5146	107.4938	1.1975e+00	1.9009e+00
55	TSO000001	65.6617	66.6276	66.1811	2.0724e-01	1.9000e+00
56	TSO000002	81.1583	82.1091	81.6652	2.2273e-01	1.9001e+00
57	TAF020136	106.0108	110.1701	108.1291	9.7135e-01	1.9010e+00
58	TAF120312	195.2734	199.4304	196.8216	9.8759e-01	1.9108e+00
59	TAF130312	210.8533	216.2019	213.0751	1.3007e+00	1.9137e+00
60	EMPTY	3.2520	3.3154	3.2809	1.7504e-02	0.0000e+00
61	EMPTY	3.2422	3.2910	3.2692	1.2718e-02	0.0000e+00
62	EMPTY	3.2422	3.2715	3.2580	9.9902e-03	0.0000e+00
63	EMPTY	3.2422	3.2666	3.2553	8.3379e-03	0.0000e+00
64	EMPTY	1.6064	1.6211	1.6130	3.6393e-03	0.0000e+00
65	EMPTY	1.6260	1.6357	1.6309	3.4173e-03	0.0000e+00
66	EMPTY	1.6357	1.6455	1.6409	3.3322e-03	0.0000e+00
67	EMPTY	1.6504	1.6602	1.6556	2.6853e-03	0.0000e+00
68	EMPTY	1.6602	1.6699	1.6636	2.4662e-03	0.0000e+00
69	EMPTY	1.6699	1.6797	1.6764	2.6908e-03	0.0000e+00
70	EMPTY	1.6797	1.6895	1.6860	2.4662e-03	0.0000e+00
71	EMPTY	1.6992	1.7090	1.7038	2.4976e-03	0.0000e+00
72	EMPTY	1.7090	1.7139	1.7120	2.3941e-03	0.0000e+00
73	EMPTY	1.7236	1.7285	1.7267	2.3941e-03	0.0000e+00
74	EMPTY	1.7334	1.7383	1.7373	1.9730e-03	0.0000e+00
75	EMPTY	1.7480	1.7578	1.7507	2.6488e-03	0.0000e+00
76	EMPTY	1.7578	1.7627	1.7590	2.1065e-03	0.0000e+00
77	EMPTY	1.7725	1.7871	1.7731	2.4184e-03	0.0000e+00
78	EMPTY	1.7871	1.7920	1.7917	1.1714e-03	0.0000e+00
79	EMPTY	1.8066	1.8164	1.8081	2.4662e-03	0.0000e+00
80	PAN020136	-19.7512	6.7991	-8.2202	6.1928e+00	8.7024e-01
81	PAN050136	-36.2728	-11.8587	-25.1186	5.4041e+00	1.6812e+00
82	PAN070136	-24.5781	-9.7771	-18.2869	4.962e+00	8.7120e-01
83	PAN080136	-8.7678	3.4392	-3.5279	2.9034e+00	8.7004e-01
84	PAN090136	-13.1753	-0.6631	-8.0361	4.0126e+00	8.7023e-01
85	PAN100136	-5.1717	31.9072	2.0900	8.6099e+00	8.7002e-01
86	PAN105136	-4.6502	1.6822	-1.3070	1.4594e+00	8.7001e-01
87	PAN110136	-7.1459	1.2465	-2.7483	2.2377e+00	8.7003e-01
88	PAN115136	-5.3471	4.1133	-0.6810	2.0345e+00	8.7000e-01
89	PAN120136	-2.8573	1.1100	-1.8486	8.8803e-01	8.7001e-01
90	PAN125136	-2.5228	-0.6917	-1.6729	3.7503e-01	8.7001e-01
91	PAN130136	-3.2519	-2.0312	-2.7438	2.8738e-01	8.7003e-01
92	PAN120048	-9.8931	7.1204	-5.6573	3.3613e+00	8.7011e-01
93	PAN130048	-8.6738	-0.4341	-4.0932	1.9327e+00	8.7006e-01
94	PAN120224	-9.1610	3.8089	-5.9002	2.4655e+00	8.7013e-01
95	PAN130224	-9.3854	-0.2301	-3.9258	2.0712e+00	8.7006e-01
96	PAN120312	-13.7254	-2.4339	-7.2999	2.8602e+00	8.7019e-01
97	PAN130312	-9.8359	-0.6044	-5.0264	1.9873e+00	8.7009e-01
98	PAB000136	39.5414	40.4112	39.9873	2.3521e-01	5.8855e-01
99	PAB100136	41.9245	42.1991	42.0691	6.5630e-02	5.8946e-01
100	PAB125136	42.3769	42.6058	42.4722	5.0519e-02	5.8964e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	38.9821	40.5690	39.8415	4.6464e-01	7.5659e-01
102	PRV0000001	19.7186	19.8406	19.8089	5.4088e-02	7.5163e-01
103	PSR0000001	42.2521	42.4962	42.3717	4.6072e-02	7.5744e-01
104	PFM0000001	7.9580	8.3242	8.1008	9.9881e-02	5.0041e-01
105	PAN000136	-86.0152	-58.5494	-74.5344	7.3300e+00	4.9235e+00
106	PFM0000002	8.0204	8.1714	8.0842	3.4572e-02	2.0102e-01
107	EMPTY	0.0000	0.0098	0.0049	9.8648e-04	0.0000e+00
108	EMPTY	-10.0000	-5.9961	-9.3396	1.3124e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0044	1.7784e-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	187.2296	187.8155	187.6006	1.2633e-01	1.3868e+00
113	VPW0000002	205.3861	205.7768	205.5267	1.1189e-01	1.4754e+00
114	VPW0000003	167.6532	168.2392	167.9189	1.6154e-01	1.2927e+00
115	VPW0000004	140.7865	141.1771	140.9506	1.0705e-01	1.1710e+00
116	VPW0000005	153.3954	153.9814	153.7666	1.1334e-01	1.2277e+00
117	VPW0000006	228.0912	228.4818	228.3529	1.1578e-01	1.5916e+00
118	IPW0000001	1485.4332	1499.0996	1493.4375	3.7471e+00	1.4311e+01
119	IPW0000002	1107.6082	1115.4132	1111.0032	2.3259e+00	1.1943e+01
120	IPW0000003	912.6375	920.4375	916.4988	1.7833e+00	1.0864e+01
121	IPW0000004	747.6618	750.1032	749.1657	7.1026e-01	6.2472e+00
122	IPW0000005	826.5869	830.4927	827.7875	1.0449e+00	6.8385e+00
123	IPW0000006	598.9990	600.4638	599.8579	4.1338e-01	5.1436e+00
124	EMPTY	-0.0244	-0.0098	-0.0172	3.9754e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0120	3.1521e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0125	3.1444e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.5568e-03	0.0000e+00
128	IHT0000001	177.5541	180.6791	179.1088	6.4109e-01	4.4741e+00
129	IHT0000002	182.5984	185.5281	183.9930	6.3871e-01	4.4939e+00
130	IHT0000003	183.8980	186.6324	185.1324	6.0675e-01	4.4986e+00
131	IHT0000004	199.6056	202.1447	200.6993	6.2639e-01	4.5649e+00
132	IHT0000005	196.8938	199.4328	198.2061	5.8798e-01	4.5540e+00
133	IHT0000006	191.0870	193.6261	192.4736	6.2297e-01	4.5293e+00
134	IHT0000007	181.0134	183.7477	182.5290	5.6436e-01	4.4879e+00
135	IHT0000008	179.4020	181.7458	180.8551	5.5686e-01	4.4812e+00
136	IHT0000009	179.8753	182.6097	181.5238	5.8946e-01	4.4839e+00
137	IHT0000010	166.7142	169.4486	167.8862	5.8127e-01	4.4304e+00
138	IHT0000011	164.0024	166.1509	165.0259	5.4040e-01	4.4197e+00
139	IHT0000012	160.8586	163.3977	162.0929	5.4310e-01	4.4088e+00
140	IHT0000013	132.7036	135.4380	133.8286	5.4184e-01	4.3129e+00
141	IHT0000014	169.9181	172.8478	171.1837	5.2532e-01	4.4430e+00
142	IHT0000015	137.6352	139.7837	138.4477	4.4879e-01	4.3274e+00
143	IHT0000016	121.3755	123.5239	122.2466	4.5883e-01	4.2784e+00
144	IHT0000017	147.7314	150.8564	149.4580	6.7238e-01	4.3639e+00
145	IHT0000018	149.9775	152.5165	151.1689	6.2297e-01	4.3698e+00
146	IHT0000019	161.0276	162.9808	162.1410	4.5206e-01	4.4090e+00
147	IHT0000020	165.6100	167.7584	166.8443	4.9037e-01	4.4265e+00
148	IHT0000021	-2.2424	0.2967	-0.9924	5.7318e-01	4.1000e+00
149	IHT0000022	136.8277	138.7808	137.6480	4.7021e-01	4.3249e+00
150	IHT0000023	162.4925	164.6409	163.3637	4.6890e-01	4.4135e+00
151	IHT0000024	127.5428	129.6913	128.4647	4.6024e-01	4.2965e+00
152	IHT0000025	145.7069	147.6600	146.6561	4.8810e-01	4.3544e+00
153	IHT0000026	147.2656	149.6094	148.5117	4.9425e-01	4.3607e+00
154	IHT0000027	123.7783	124.9362	124.2486	4.1430e-01	4.2841e+00
155	IHT0000028	124.5568	127.2912	126.0802	6.5078e-01	4.2895e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.2177	149.1474	147.8271	6.2833e-01	4.3584e+00
157	IHT000030	149.1737	151.9080	150.6308	6.0773e-01	4.3679e+00
158	IHT000031	133.4360	136.1704	134.8735	6.2110e-01	4.3161e+00
159	IHT000032	135.0511	137.9808	136.6371	6.2719e-01	4.3217e+00
160	IHT000033	135.2314	137.9657	136.5830	5.9952e-01	4.3215e+00
161	IHT000034	124.5756	126.9193	125.7827	5.4203e-01	4.2886e+00
162	IHT000035	164.4494	166.5978	165.7501	5.0626e-01	4.4224e+00
163	IHT000036	123.0807	125.0338	124.1548	4.9639e-01	4.2839e+00

Velocity 1 = 0.007200 (ft/sec)

Velocity 2 = 0.006600 (ft/sec)

Pressure Drop = 0.021800 (psi)

Tsat in = 0.156708 (deg F) Tsat out = 0.214600 (deg F)

Phi inner = 1.516800 (kBtu/hr-ft2) Phi outer = 0.269699 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1903	0.2226
1	TRF000002	0.0799	0.0930
2	TFM000001	0.3264	0.3707
3	TIN000001	0.3699	0.4235
4	TRV000001	0.2413	0.2722
5	TSR000001	1.8260	1.2793
6	TAO020136	1.6492	2.6585
7	TAO050136	1.1481	0.5363
8	TAO070136	0.6483	0.2990
9	TAO080136	0.6221	0.3857
10	TAO090136	0.5344	0.1991
11	TAO100136	0.7980	0.2992
12	TAO105136	0.6244	0.2292
13	TAO110136	0.7181	0.2523
14	TAO115136	0.4564	0.1642
15	TAO120136	0.4011	0.1371
16	TAO125136	0.0086	0.0047
17	TAO130136	0.1466	0.0512
18	TAO120048	2.8273	2.5019
19	TAO130048	0.3500	0.1326
20	TAO120224	0.9814	0.3613
21	TAO130224	0.7683	0.2962
22	TAO120312	0.4527	0.1809
23	TAO130312	0.3914	0.1580
24	TRT020000	0.4119	0.2110
25	TRT070000	0.2832	0.1256
26	TRT100000	0.2789	0.1117
27	TRT120000	0.1518	0.0590
28	TRT125000	5.4982	5.6280
29	TRT130000	0.1598	0.0641
30	EMPTY	0.0413	0.1037
31	TAF050136	0.4783	0.3243
32	TAF070136	0.6878	0.3984
33	TAF080136	0.4708	0.1815
34	TAF090136	2.8752	2.9729
35	TAF100136	0.8121	0.3900
36	TAF105136	0.7729	0.3624
37	TAF110136	0.9095	0.4120
38	TAF115136	0.7635	0.3359
39	TAF120136	0.5818	0.2190
40	TAF125136	1.0767	0.4468
41	TAF130136	0.0217	0.0088
42	TAF120048	0.6870	0.3250
43	TAF130048	0.6119	0.2774
44	TAF120224	0.8861	0.4162
45	TAF130224	1.1367	0.5142

#	Name	Abs Diff	%Diff
46	EMPTY	0.0736	0.1924
47	EMPTY	0.1238	0.3087
48	TAI130048	0.2038	0.0781
49	TAI130136	0.0576	0.0202
50	TAI130224	0.1718	0.0675
51	TAI130312	0.7025	0.2686
52	TRR130000	0.3867	0.2540
53	TSI000001	0.0502	0.0749
54	TSI000002	1.2887	1.1847
55	TSO000001	0.0600	0.0907
56	TSO000002	0.0882	0.1079
57	TAF020136	0.3499	0.3226
58	TAF120312	0.4249	0.2154
59	TAF130312	0.4005	0.1876
60	EMPTY	0.0122	0.3705
61	EMPTY	0.0107	0.3262
62	EMPTY	0.0084	0.2572
63	EMPTY	0.0068	0.2085
64	EMPTY	0.0023	0.1424
65	EMPTY	0.0013	0.0796
66	EMPTY	0.0011	0.0670
67	EMPTY	0.0004	0.0242
68	EMPTY	0.0003	0.0180
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0014	0.0831
71	EMPTY	0.0017	0.0999
72	EMPTY	0.0009	0.0526
73	EMPTY	0.0010	0.0579
74	EMPTY	0.0013	0.0749
75	EMPTY	0.0015	0.0858
76	EMPTY	0.0012	0.0683
77	EMPTY	0.0008	0.0451
78	EMPTY	0.0029	0.1621
79	EMPTY	0.0016	0.0886
80	PAN020136	1.6784	16.9559
81	PAN050136	2.6184	11.6372
82	PAN070136	0.2213	1.2250
83	PAN080136	0.6302	15.1560
84	PAN090136	0.7629	10.4892
85	PAN100136	0.4349	26.2764
86	PAN105136	0.1709	15.0427
87	PAN110136	0.1007	3.8034
88	PAN115136	0.8652	55.9565
89	PAN120136	0.3646	24.5687
90	PAN125136	0.0214	1.2958
91	PAN130136	0.6287	29.7244
92	PAN120048	1.3413	31.0774
93	PAN130048	0.3356	7.5777
94	PAN120224	0.1572	2.5952
95	PAN130224	0.2548	6.9409
96	PAN120312	0.6866	10.3821
97	PAN130312	0.6637	11.6641
98	PAB000136	0.1053	0.2626
99	PAB100136	0.1639	0.3881
100	PAB125136	0.1519	0.3564

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0513	0.1286
102	PRV000001	0.0269	0.1356
103	PSR000001	0.1538	0.3617
104	PFM000001	0.0164	0.2029
105	PAN000136	0.6042	0.8173
106	PFM000002	0.0155	0.1921
107	EMPTY	0.0008	19.5122
108	EMPTY	0.6388	6.4018
109	EMPTY	0.0008	22.2222
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0742	0.0396
113	VPW000002	0.0391	0.0190
114	VPW000003	0.1523	0.0908
115	VPW000004	0.0079	0.0056
116	VPW000005	0.0039	0.0025
117	VPW000006	0.0352	0.0154
118	IPW000001	26.6305	1.7519
119	IPW000002	20.6055	1.8897
120	IPW000003	23.4396	2.6246
121	IPW000004	4.2090	0.5587
122	IPW000005	3.5539	0.4312
123	IPW000006	4.1016	0.6885
124	EMPTY	0.0020	10.4167
125	EMPTY	0.0016	11.7647
126	EMPTY	0.0022	14.9660
127	EMPTY	0.0000	0.0000
128	IHT000001	0.0312	0.0174
129	IHT000002	0.0156	0.0085
130	IHT000003	0.0313	0.0169
131	IHT000004	0.0117	0.0058
132	IHT000005	0.0195	0.0098
133	IHT000006	0.0430	0.0223
134	IHT000007	0.0625	0.0342
135	IHT000008	0.0586	0.0324
136	IHT000009	0.0859	0.0473
137	IHT000010	0.1055	0.0629
138	IHT000011	0.1094	0.0663
139	IHT000012	0.0078	0.0048
140	IHT000013	0.0000	0.0000
141	IHT000014	0.0195	0.0114
142	IHT000015	0.0821	0.0593
143	IHT000016	0.0937	0.0766
144	IHT000017	0.2500	0.1676
145	IHT000018	0.0664	0.0439
146	IHT000019	0.3242	0.2004
147	IHT000020	0.4492	0.2700
148	IHT000021	0.5195	34.3607
149	IHT000022	0.5000	0.3646
150	IHT000023	0.4336	0.2661
151	IHT000024	0.3828	0.2989
152	IHT000025	0.3554	0.2429
153	IHT000026	0.3984	0.2690
154	IHT000027	0.2461	0.1985
155	IHT000028	0.0195	0.0155

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0312	0.0211
157	IHT000030	0.0938	0.0623
158	IHT000031	0.0390	0.0289
159	IHT000032	0.0039	0.0029
160	IHT000033	0.0078	0.0057
161	IHT000034	0.0820	0.0651
162	IHT000035	0.0430	0.0259
163	IHT000036	0.1367	0.1100

Velocity 1 = 7.1901 (ft/sec) (+/- 3.6060 %)
Velocity 2 = 7.1791 (ft/sec) (+/- 2.0312 %)
Pressure drop = -2.6998 (psi)
Tsats in = 267.6003 (deg F) Tsats out = 271.3119 (deg F)
Phi inner = 197.6566 (kBtu/hr-ft2) (+/- 1.3820 %)
Phi outer = 201.6746 (kBtu/hr-ft2) (+/- 1.3006 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	85.3319	85.9662	85.6618	1.6073e-01	1.9002e+00
1	TRF0000002	85.8038	86.4345	86.0687	1.3965e-01	1.9002e+00
2	TFM0000001	86.8440	87.6844	87.2666	2.4591e-01	1.9002e+00
3	TIN0000001	86.2723	86.9045	86.5613	1.4857e-01	1.9002e+00
4	TRV0000001	87.4522	88.2903	87.8653	2.1412e-01	1.9002e+00
5	TSR0000001	140.6862	142.2921	141.3149	4.0457e-01	1.9034e+00
6	TAO020136	58.6440	60.6896	59.6200	5.0931e-01	1.9001e+00
7	TAO050136	214.4959	216.7770	215.5624	5.3015e-01	1.9142e+00
8	TAO070136	215.9335	219.2874	217.6954	7.4894e-01	1.9146e+00
9	TAO080136	161.7436	162.9282	162.3782	2.5993e-01	1.9057e+00
10	TAO090136	269.2162	271.4286	270.5459	4.2059e-01	1.9269e+00
11	TAO100136	268.5710	270.5099	269.3749	4.9196e-01	1.9266e+00
12	TAO105136	274.3781	275.9461	275.1585	3.7886e-01	1.9281e+00
13	TAO110136	286.6778	288.0395	287.1958	2.5449e-01	1.9315e+00
14	TAO115136	280.3763	282.1227	281.1028	3.5048e-01	1.9298e+00
15	TAO120136	294.2915	295.0220	294.6259	1.6240e-01	1.9337e+00
16	TAO125136	183.4710	184.6419	184.1870	3.0464e-01	1.9088e+00
17	TAO130136	289.0750	290.5150	289.9227	3.1029e-01	1.9323e+00
18	TAO120048	114.7540	115.6791	115.2005	2.8569e-01	1.9014e+00
19	TAO130048	266.3574	267.6504	266.9060	2.6517e-01	1.9259e+00
20	TAO120224	275.1282	276.5088	275.9178	2.8703e-01	1.9284e+00
21	TAO130224	265.0128	267.3073	265.8822	4.3207e-01	1.9257e+00
22	TAO120312	250.8066	252.0226	251.4592	2.7680e-01	1.9221e+00
23	TAO130312	247.8862	249.1004	248.4256	2.6776e-01	1.9213e+00
24	TRT020000	195.2013	196.4634	195.9177	2.9159e-01	1.9107e+00
25	TRT070000	225.8723	227.3052	226.6386	3.6219e-01	1.9165e+00
26	TRT100000	249.4594	250.8592	250.1262	3.5141e-01	1.9217e+00
27	TRT120000	256.0765	258.3994	257.0378	4.2733e-01	1.9234e+00
28	TRT125000	99.7574	100.5879	100.2201	1.8387e-01	1.9006e+00
29	TRT130000	251.5544	252.4881	252.0082	2.1802e-01	1.9222e+00
30	EMPTY	39.3761	40.2940	39.8443	2.1226e-01	1.9011e+00
31	TAF050136	146.2247	149.4183	147.4570	8.6142e-01	1.9040e+00
32	TAF070136	171.8222	175.5383	172.9939	6.8343e-01	1.9071e+00
33	TAF080136	259.2393	262.2829	260.5585	6.2395e-01	1.9243e+00
34	TAF090136	96.9183	98.0643	97.5833	2.9962e-01	1.9005e+00
35	TAF100136	208.6561	210.4828	209.4466	4.1449e-01	1.9131e+00
36	TAF105136	213.8199	215.4322	214.5762	3.7945e-01	1.9140e+00
37	TAF110136	221.4776	223.4655	222.1836	3.8432e-01	1.9155e+00
38	TAF115136	228.1574	229.9529	229.1159	4.3946e-01	1.9170e+00
39	TAF120136	266.7664	267.9644	267.2805	3.0018e-01	1.9260e+00
40	TAF125136	240.9523	243.1904	241.9256	4.7840e-01	1.9198e+00
41	TAF130136	249.5365	251.9613	250.7702	6.4737e-01	1.9219e+00
42	TAF120048	211.2124	214.2955	212.9259	6.3280e-01	1.9137e+00
43	TAF130048	222.9790	226.9636	224.7085	7.3051e-01	1.9161e+00
44	TAF120224	215.0869	217.8517	216.3707	5.7253e-01	1.9144e+00
45	TAF130224	227.7834	231.2078	229.6848	7.2582e-01	1.9171e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1675	1.9602e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	39.9866	1.1919e-01	1.9011e+00
48	TAI130048	262.0025	264.2283	263.2737	5.3138e-01	1.9250e+00
49	TAI130136	285.6614	286.6670	286.1601	2.1302e-01	1.9312e+00
50	TAI130224	253.3811	254.9701	254.2428	3.6977e-01	1.9227e+00
51	TAI130312	265.8124	267.4816	266.6935	3.5443e-01	1.9259e+00
52	TRR130000	149.6141	151.5059	150.6478	3.9064e-01	1.9044e+00
53	TSI000001	66.7021	67.4493	67.0114	1.6168e-01	1.9000e+00
54	TSI000002	104.7464	107.6332	106.0077	6.5541e-01	1.9009e+00
55	TSO000001	65.6612	66.5196	66.1142	2.0942e-01	1.9000e+00
56	TSO000002	81.6861	82.8473	82.1991	2.3164e-01	1.9001e+00
57	TAF020136	105.9060	110.0670	108.1392	8.6142e-01	1.9010e+00
58	TAF120312	197.4022	200.2030	198.9266	6.5038e-01	1.9112e+00
59	TAF130312	213.2448	217.1563	215.0708	8.9741e-01	1.9141e+00
60	EMPTY	3.3105	3.3545	3.3282	1.3008e-02	0.0000e+00
61	EMPTY	3.2959	3.3398	3.3148	1.1531e-02	0.0000e+00
62	EMPTY	3.2813	3.3203	3.3013	1.1683e-02	0.0000e+00
63	EMPTY	3.2764	3.3105	3.2960	1.2061e-02	0.0000e+00
64	EMPTY	1.6260	1.6406	1.6321	5.2949e-03	0.0000e+00
65	EMPTY	1.6406	1.6553	1.6483	6.0078e-03	0.0000e+00
66	EMPTY	1.6504	1.6650	1.6588	5.2237e-03	0.0000e+00
67	EMPTY	1.6650	1.6797	1.6722	5.6849e-03	0.0000e+00
68	EMPTY	1.6748	1.6895	1.6800	5.1647e-03	0.0000e+00
69	EMPTY	1.6846	1.6992	1.6929	4.3282e-03	0.0000e+00
70	EMPTY	1.6943	1.7090	1.7019	4.5432e-03	0.0000e+00
71	EMPTY	1.7139	1.7285	1.7183	4.3282e-03	0.0000e+00
72	EMPTY	1.7236	1.7334	1.7268	3.9162e-03	0.0000e+00
73	EMPTY	1.7383	1.7529	1.7415	3.8975e-03	0.0000e+00
74	EMPTY	1.7480	1.7578	1.7520	3.5568e-03	0.0000e+00
75	EMPTY	1.7529	1.7725	1.7646	3.4173e-03	0.0000e+00
76	EMPTY	1.7725	1.7773	1.7739	2.2603e-03	0.0000e+00
77	EMPTY	1.7871	1.7969	1.7885	2.4244e-03	0.0000e+00
78	EMPTY	1.8018	1.8115	1.8047	2.6100e-03	0.0000e+00
79	EMPTY	1.8213	1.8262	1.8229	2.3365e-03	0.0000e+00
80	PAN020136	-19.6749	1.2296	-9.1479	5.3510e+00	8.7030e-01
81	PAN050136	-34.1366	-11.5536	-23.5592	6.2615e+00	1.6810e+00
82	PAN070136	-24.5781	-8.2512	-18.0504	4.9672e+00	8.7117e-01
83	PAN080136	-13.8032	2.4474	-4.4404	2.8944e+00	8.7007e-01
84	PAN090136	-13.1753	6.6611	-6.6720	4.2767e+00	8.7016e-01
85	PAN100136	-6.8502	18.1742	-0.8535	5.9199e+00	8.7000e-01
86	PAN105136	-7.6257	4.4287	-2.0501	2.2047e+00	8.7002e-01
87	PAN110136	-7.2222	3.0012	-2.1639	2.0223e+00	8.7002e-01
88	PAN115136	-4.1264	3.5793	-1.4683	1.4925e+00	8.7001e-01
89	PAN120136	-3.6965	-0.9499	-2.7810	5.7176e-01	8.7003e-01
90	PAN125136	-0.7680	0.2238	-0.2660	2.2500e-01	8.7000e-01
91	PAN130136	-1.4208	-0.8868	-1.1385	1.2451e-01	8.7000e-01
92	PAN120048	-10.8086	-1.5008	-6.1608	2.1716e+00	8.7014e-01
93	PAN130048	-7.7583	1.0155	-3.5438	2.1598e+00	8.7005e-01
94	PAN120224	-10.9921	-3.5153	-7.0309	1.9643e+00	8.7018e-01
95	PAN130224	-7.2492	3.5083	-1.9925	2.5070e+00	8.7001e-01
96	PAN120312	-13.6491	-3.1205	-6.4180	2.9833e+00	8.7015e-01
97	PAN130312	-8.2338	-0.3755	-5.2202	1.4322e+00	8.7010e-01
98	PAB000136	39.7703	40.5943	40.1557	2.3815e-01	5.8862e-01
99	PAB100136	42.1533	42.4738	42.3081	7.3341e-02	5.8957e-01
100	PAB125136	42.6516	42.7889	42.7239	4.9880e-02	5.8975e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.2263	40.6911	40.0954	3.9431e-01	7.5667e-01
102	PRV0000001	19.5965	19.7186	19.7161	1.7263e-02	7.5162e-01
103	PSR0000001	42.3741	42.6183	42.5133	5.5201e-02	7.5749e-01
104	PFM0000001	7.5918	8.0496	7.8243	9.9966e-02	5.0038e-01
105	PAN000136	-87.3885	-62.2115	-74.7450	7.9303e+00	4.9235e+00
106	PFM0000002	7.7016	7.9533	7.8003	5.4939e-02	2.0095e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-5.8574	-9.4188	1.3494e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0043	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	187.2296	187.8155	187.6084	9.9902e-02	1.3868e+00
113	VPW0000002	205.3861	205.7768	205.6127	1.2072e-01	1.4758e+00
114	VPW0000003	167.6532	168.2392	167.9345	1.3182e-01	1.2928e+00
115	VPW0000004	140.7865	141.1771	141.0210	1.2478e-01	1.1713e+00
116	VPW0000005	153.3954	153.9814	153.8095	1.2251e-01	1.2279e+00
117	VPW0000006	228.2865	228.6771	228.4622	1.2633e-01	1.5922e+00
118	IPW0000001	1489.3379	1497.1472	1493.8281	1.6850e+00	1.4314e+01
119	IPW0000002	1109.5594	1113.4619	1111.0812	1.1350e+00	1.1944e+01
120	IPW0000003	914.5875	920.4375	917.6689	1.3698e+00	1.0870e+01
121	IPW0000004	748.6384	749.6149	749.1364	3.0389e-01	6.2470e+00
122	IPW0000005	827.0751	828.5398	827.5824	3.2654e-01	6.8370e+00
123	IPW0000006	599.4872	600.9521	600.2290	3.4513e-01	5.1463e+00
124	EMPTY	-0.0244	-0.0098	-0.0176	4.1853e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0113	3.0309e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0133	2.9660e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0153	3.2733e-03	0.0000e+00
128	IHT0000001	177.5541	180.2885	179.1635	5.8867e-01	4.4744e+00
129	IHT0000002	182.4031	185.1375	184.0048	5.8527e-01	4.4940e+00
130	IHT0000003	183.7027	186.4370	185.2300	6.1471e-01	4.4990e+00
131	IHT0000004	199.2150	202.3400	200.7930	6.2991e-01	4.5653e+00
132	IHT0000005	196.6985	199.8235	198.2882	6.0233e-01	4.5543e+00
133	IHT0000006	191.0870	193.8214	192.5557	5.9220e-01	4.5297e+00
134	IHT0000007	181.0134	183.7477	182.6305	6.3016e-01	4.4884e+00
135	IHT0000008	179.5973	182.3317	180.9059	6.2795e-01	4.4814e+00
136	IHT0000009	180.2659	182.8050	181.6019	6.2060e-01	4.4842e+00
137	IHT0000010	166.9095	169.2533	168.0307	5.9818e-01	4.4310e+00
138	IHT0000011	163.8071	166.3462	165.1587	5.7837e-01	4.4202e+00
139	IHT0000012	161.2493	163.3977	162.2413	6.0726e-01	4.4093e+00
140	IHT0000013	133.0942	135.0473	134.0005	5.7826e-01	4.3134e+00
141	IHT0000014	170.3087	172.8478	171.4063	6.0088e-01	4.4439e+00
142	IHT0000015	137.4399	139.9790	138.6509	5.7182e-01	4.3281e+00
143	IHT0000016	121.1801	123.7192	122.4341	5.0853e-01	4.2789e+00
144	IHT0000017	148.9033	151.0517	149.9267	5.0155e-01	4.3655e+00
145	IHT0000018	149.9775	152.7119	151.2744	6.2858e-01	4.3702e+00
146	IHT0000019	160.6370	163.3714	162.0043	6.4958e-01	4.4085e+00
147	IHT0000020	165.6100	168.3443	166.6490	6.2818e-01	4.4257e+00
148	IHT0000021	-2.8283	0.2967	-1.2736	7.6408e-01	4.1000e+00
149	IHT0000022	136.2417	138.5855	137.3316	5.3972e-01	4.3239e+00
150	IHT0000023	161.9066	164.6409	163.1879	6.0767e-01	4.4128e+00
151	IHT0000024	127.1522	129.4959	128.2850	5.7993e-01	4.2960e+00
152	IHT0000025	145.3163	148.0506	146.4921	6.3072e-01	4.3538e+00
153	IHT0000026	147.0703	150.0000	148.3008	6.7687e-01	4.3600e+00
154	IHT0000027	122.7877	125.5221	124.0415	6.3022e-01	4.2835e+00
155	IHT0000028	125.1427	127.8771	126.2560	7.1817e-01	4.2900e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.8036	149.7333	147.9795	7.1408e-01	4.3589e+00
157	IHT000030	149.5643	152.6893	150.7440	7.5692e-01	4.3683e+00
158	IHT000031	133.6313	136.5610	134.9165	6.9597e-01	4.3163e+00
159	IHT000032	135.4417	138.3714	136.6957	6.8922e-01	4.3219e+00
160	IHT000033	135.4267	138.3564	136.6728	6.9909e-01	4.3218e+00
161	IHT000034	124.9662	127.1146	125.8842	5.5838e-01	4.2889e+00
162	IHT000035	164.6447	166.7931	165.8477	5.7094e-01	4.4227e+00
163	IHT000036	123.0807	125.4244	124.3150	5.4596e-01	4.2843e+00

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sum2

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Velocity 1 = 7.1800 (ft/sec) (+/- 3.6140 %)
Velocity 2 = 7.1735 (ft/sec) (+/- 2.0322 %)
Pressure drop = -2.6928 (psi)
Tsats in = 267.8676 (deg F) Tsats out = 271.5678 (deg F)
Phi inner = 195.4458 (kBtu/hr-ft2) (+/- 1.3890 %)
Phi outer = 201.2357 (kBtu/hr-ft2) (+/- 1.3016 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.5434	86.1775	85.8097	1.9482e-01	1.9002e+00
1	TRF000002	86.0140	86.4345	86.1991	1.2484e-01	1.9002e+00
2	TFM000001	86.5304	87.3713	87.0280	2.0103e-01	1.9002e+00
3	TIN000001	85.8515	86.4841	86.2541	1.3240e-01	1.9002e+00
4	TRV000001	87.1395	88.1868	87.6697	2.4451e-01	1.9002e+00
5	TSR000001	144.1921	148.0877	145.5262	1.1958e+00	1.9038e+00
6	TAO020136	58.1050	62.3022	60.0029	9.8526e-01	1.9001e+00
7	TAO050136	214.5915	216.9674	215.6204	5.2015e-01	1.9142e+00
8	TAO070136	216.4127	219.2869	217.4231	6.8445e-01	1.9146e+00
9	TAO080136	161.3510	163.1274	162.2887	4.3975e-01	1.9057e+00
10	TAO090136	268.9407	271.0611	270.0121	5.1958e-01	1.9268e+00
11	TAO100136	268.2960	270.2339	269.1503	4.5605e-01	1.9265e+00
12	TAO105136	274.1013	275.5777	274.8856	3.4242e-01	1.9281e+00
13	TAO110136	286.5879	287.4976	287.0594	2.3716e-01	1.9315e+00
14	TAO115136	280.2853	281.5719	280.9265	2.9917e-01	1.9297e+00
15	TAO120136	294.2920	295.1131	294.6736	2.0419e-01	1.9337e+00
16	TAO125136	184.2511	185.9069	185.1026	3.7416e-01	1.9089e+00
17	TAO130136	289.3465	290.5187	290.0365	2.7470e-01	1.9323e+00
18	TAO120048	112.0819	113.3180	112.6690	3.0647e-01	1.9012e+00
19	TAO130048	266.0823	267.1900	266.6818	2.5087e-01	1.9259e+00
20	TAO120224	274.9436	276.4173	275.6420	3.1192e-01	1.9283e+00
21	TAO130224	264.5553	266.7596	265.3919	5.3698e-01	1.9255e+00
22	TAO120312	249.5900	252.0228	251.3359	4.5776e-01	1.9220e+00
23	TAO130312	247.6059	248.7273	248.1053	2.6191e-01	1.9213e+00
24	TRT020000	195.1033	196.7543	195.7817	3.3846e-01	1.9106e+00
25	TRT070000	225.4894	227.7815	226.7336	3.9224e-01	1.9165e+00
26	TRT100000	249.4605	250.9531	250.1903	3.3529e-01	1.9217e+00
27	TRT120000	256.4481	257.9371	257.2094	3.8909e-01	1.9235e+00
28	TRT125000	96.9688	97.7982	97.3639	1.9300e-01	1.9005e+00
29	TRT130000	251.4620	252.3953	251.7891	2.2232e-01	1.9221e+00
30	EMPTY	39.3761	40.2940	39.8122	2.5076e-01	1.9011e+00
31	TAF050136	145.9248	149.4196	147.2982	7.8165e-01	1.9040e+00
32	TAF070136	171.4300	174.4628	172.6429	6.5451e-01	1.9071e+00
33	TAF080136	258.5033	261.7309	260.4529	6.9681e-01	1.9243e+00
34	TAF090136	94.4181	95.6713	95.0092	2.7701e-01	1.9004e+00
35	TAF100136	208.2713	210.1944	209.2582	4.6544e-01	1.9130e+00
36	TAF105136	213.5361	215.3408	214.4221	4.6595e-01	1.9140e+00
37	TAF110136	221.2885	222.8050	222.0784	3.5335e-01	1.9155e+00
38	TAF115136	227.6851	229.7636	228.9655	4.1753e-01	1.9169e+00
39	TAF120136	266.4914	268.0579	267.2445	3.7173e-01	1.9260e+00
40	TAF125136	241.0488	243.5654	242.1133	5.3304e-01	1.9199e+00
41	TAF130136	248.8852	251.4967	250.4092	6.0717e-01	1.9218e+00
42	TAF120048	211.3082	213.7177	212.5555	5.5930e-01	1.9136e+00
43	TAF130048	222.6954	226.4893	224.2194	8.2822e-01	1.9160e+00
44	TAF120224	214.2288	216.9951	215.9784	5.5739e-01	1.9143e+00
45	TAF130224	226.5444	230.2572	228.7177	8.9510e-01	1.9169e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1216	2.1891e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9729	1.1356e-01	1.9011e+00
48	TAI130048	262.2820	264.5074	263.3741	5.3131e-01	1.9250e+00
49	TAI130136	285.7530	286.6670	286.2777	2.3037e-01	1.9313e+00
50	TAI130224	253.5671	255.1570	254.4073	3.5417e-01	1.9228e+00
51	TAI130312	265.4418	267.4816	266.5974	4.3047e-01	1.9259e+00
52	TRR130000	149.8128	151.4069	150.4656	4.1451e-01	1.9044e+00
53	TSI000001	66.5959	67.4505	66.9824	1.8287e-01	1.9000e+00
54	TSI000002	106.5014	110.1062	108.0328	8.0083e-01	1.9010e+00
55	TSO000001	65.6606	66.5197	66.1397	2.0143e-01	1.9000e+00
56	TSO000002	81.7915	82.6369	82.2163	1.9958e-01	1.9001e+00
57	TAF020136	106.2174	110.5845	107.8431	1.0173e+00	1.9010e+00
58	TAF120312	197.1128	200.3000	198.6294	7.7642e-01	1.9111e+00
59	TAF130312	212.1925	217.7278	214.5482	1.1877e+00	1.9140e+00
60	EMPTY	3.2861	3.3447	3.3114	1.6527e-02	0.0000e+00
61	EMPTY	3.2813	3.3154	3.2985	1.1126e-02	0.0000e+00
62	EMPTY	3.2715	3.2959	3.2850	7.5490e-03	0.0000e+00
63	EMPTY	3.2715	3.2959	3.2816	6.3042e-03	0.0000e+00
64	EMPTY	1.6211	1.6260	1.6244	2.3008e-03	0.0000e+00
65	EMPTY	1.6357	1.6455	1.6413	2.4184e-03	0.0000e+00
66	EMPTY	1.6455	1.6553	1.6521	3.0581e-03	0.0000e+00
67	EMPTY	1.6602	1.6699	1.6656	2.5420e-03	0.0000e+00
68	EMPTY	1.6699	1.6797	1.6742	2.5420e-03	0.0000e+00
69	EMPTY	1.6846	1.6943	1.6870	2.8334e-03	0.0000e+00
70	EMPTY	1.6943	1.7041	1.6970	2.9938e-03	0.0000e+00
71	EMPTY	1.7090	1.7188	1.7142	3.3322e-03	0.0000e+00
72	EMPTY	1.7139	1.7285	1.7223	3.4229e-03	0.0000e+00
73	EMPTY	1.7334	1.7480	1.7377	3.9013e-03	0.0000e+00
74	EMPTY	1.7432	1.7578	1.7490	3.2718e-03	0.0000e+00
75	EMPTY	1.7578	1.7676	1.7613	2.9660e-03	0.0000e+00
76	EMPTY	1.7627	1.7773	1.7705	2.9594e-03	0.0000e+00
77	EMPTY	1.7822	1.7871	1.7849	2.4583e-03	0.0000e+00
78	EMPTY	1.7969	1.8066	1.8021	2.4976e-03	0.0000e+00
79	EMPTY	1.8164	1.8213	1.8197	2.3008e-03	0.0000e+00
80	PAN020136	-19.4460	5.7310	-7.9974	6.1146e+00	8.7023e-01
81	PAN050136	-38.4090	-15.0631	-26.6232	6.1792e+00	1.6813e+00
82	PAN070136	-24.6544	-9.6245	-18.2442	4.2978e+00	8.7119e-01
83	PAN080136	-13.4217	2.5237	-3.7416	3.6887e+00	8.7005e-01
84	PAN090136	-13.1753	1.3969	-8.4115	3.7088e+00	8.7025e-01
85	PAN100136	-5.4769	32.4412	2.7339	8.7413e+00	8.7003e-01
86	PAN105136	-5.1843	1.8347	-1.6946	1.8831e+00	8.7001e-01
87	PAN110136	-6.4592	1.3991	-2.7300	1.7584e+00	8.7003e-01
88	PAN115136	-4.7368	2.8163	-0.9114	1.5870e+00	8.7000e-01
89	PAN120136	-3.8491	0.0419	-2.8328	8.1305e-01	8.7003e-01
90	PAN125136	-1.6073	-0.2340	-0.7436	2.4148e-01	8.7000e-01
91	PAN130136	-1.2682	-0.5053	-0.8196	1.7550e-01	8.7000e-01
92	PAN120048	-10.8849	16.1231	-3.9407	5.4226e+00	8.7006e-01
93	PAN130048	-7.6820	0.4814	-3.3272	1.9832e+00	8.7004e-01
94	PAN120224	-10.3055	-3.2864	-6.6800	1.7958e+00	8.7016e-01
95	PAN130224	-3.9685	3.4320	-1.4081	1.7438e+00	8.7001e-01
96	PAN120312	-13.7254	-1.2895	-7.3014	3.3857e+00	8.7019e-01
97	PAN130312	-8.6152	6.8724	-3.8682	2.7655e+00	8.7005e-01
98	PAB000136	39.8161	40.7774	40.3361	2.5052e-01	5.8870e-01
99	PAB100136	42.3364	42.7484	42.4994	8.5844e-02	5.8965e-01
100	PAB125136	42.8347	42.9720	42.9061	4.4507e-02	5.8984e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.1042	40.8132	40.0368	4.8060e-01	7.5665e-01
102	PRV0000001	19.5965	19.8406	19.7186	2.4662e-02	7.5162e-01
103	PSR0000001	42.6183	42.7404	42.6622	5.9189e-02	7.5755e-01
104	PFM0000001	7.5003	7.9580	7.8024	1.0173e-01	5.0038e-01
105	PAN000136	-89.6773	-58.5494	-74.5528	7.7199e+00	4.9235e+00
106	PFM0000002	7.6680	7.9030	7.7882	5.3317e-02	2.0095e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-6.2158	-9.8545	6.2359e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0041	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	VPW0000001	187.4249	188.0108	187.6436	1.1599e-01	1.3870e+00
113	VPW0000002	205.3861	205.7768	205.6010	1.1334e-01	1.4758e+00
114	VPW0000003	167.8485	168.2392	167.9853	1.0625e-01	1.2931e+00
115	VPW0000004	140.5912	141.1771	140.9545	1.2484e-01	1.1710e+00
116	VPW0000005	153.3954	153.9814	153.8330	1.3416e-01	1.2280e+00
117	VPW0000006	228.0912	228.8725	228.4388	1.2658e-01	1.5921e+00
118	IPW0000001	1512.7660	1522.5277	1515.6167	2.0575e+00	1.4456e+01
119	IPW0000002	1080.2904	1090.0468	1085.1293	1.8591e+00	1.1794e+01
120	IPW0000003	889.2375	893.1375	890.6027	1.3214e+00	1.0729e+01
121	IPW0000004	754.4977	755.9626	755.1032	4.3629e-01	6.2917e+00
122	IPW0000005	824.1458	826.5869	825.5030	5.3383e-01	6.8213e+00
123	IPW0000006	594.6044	596.0693	595.1899	4.0674e-01	5.1097e+00
124	EMPTY	-0.0293	-0.0098	-0.0166	4.3000e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0126	2.8058e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0134	4.7114e-03	0.0000e+00
127	EMPTY	-0.0244	0.0000	-0.0157	3.9815e-03	0.0000e+00
128	IHT0000001	177.7494	180.4838	179.0112	6.0645e-01	4.4738e+00
129	IHT0000002	182.7937	184.9422	183.9071	5.7352e-01	4.4936e+00
130	IHT0000003	183.7027	186.2417	185.0933	5.9535e-01	4.4984e+00
131	IHT0000004	199.6056	201.9494	200.6915	5.9078e-01	4.5648e+00
132	IHT0000005	197.0891	199.2375	198.1085	5.4575e-01	4.5535e+00
133	IHT0000006	191.4776	193.4307	192.4815	5.4678e-01	4.5293e+00
134	IHT0000007	181.4040	183.7477	182.5368	5.2645e-01	4.4880e+00
135	IHT0000008	179.7926	181.9411	180.8707	5.0876e-01	4.4812e+00
136	IHT0000009	180.4612	182.4144	181.5316	4.9950e-01	4.4839e+00
137	IHT0000010	166.5189	169.2533	167.8354	5.7833e-01	4.4302e+00
138	IHT0000011	163.6118	166.1509	164.9751	5.4318e-01	4.4195e+00
139	IHT0000012	160.6633	163.5930	162.0617	5.3577e-01	4.4087e+00
140	IHT0000013	132.5083	135.2426	133.8325	5.0884e-01	4.3129e+00
141	IHT0000014	170.1134	172.2619	171.2227	4.9825e-01	4.4432e+00
142	IHT0000015	137.6352	139.5883	138.5063	4.8038e-01	4.3276e+00
143	IHT0000016	121.3755	123.1333	122.2192	5.1515e-01	4.2783e+00
144	IHT0000017	147.7314	151.4423	149.7314	8.3850e-01	4.3649e+00
145	IHT0000018	149.5869	152.5165	151.2275	6.0102e-01	4.3700e+00
146	IHT0000019	160.8323	163.5667	162.1097	6.5698e-01	4.4088e+00
147	IHT0000020	165.6100	168.1490	166.7701	6.5127e-01	4.4262e+00
148	IHT0000021	-2.6330	0.4920	-1.0783	7.7017e-01	4.1000e+00
149	IHT0000022	136.2417	138.7808	137.5855	6.2967e-01	4.3247e+00
150	IHT0000023	161.9066	164.4456	163.3090	6.2101e-01	4.4133e+00
151	IHT0000024	126.7616	129.8866	128.4413	6.0361e-01	4.2965e+00
152	IHT0000025	145.1209	148.0506	146.6991	5.7837e-01	4.3545e+00
153	IHT0000026	147.0703	149.8047	148.5586	5.9828e-01	4.3608e+00
154	IHT0000027	122.9830	125.5221	124.2564	5.7756e-01	4.2842e+00
155	IHT0000028	124.7521	127.6818	126.0841	6.1724e-01	4.2895e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.8036	149.5380	147.8779	6.2297e-01	4.3585e+00
157	IHT000030	149.5643	152.1033	150.7011	6.1976e-01	4.3682e+00
158	IHT000031	134.0219	136.1704	134.9516	5.7529e-01	4.3164e+00
159	IHT000032	135.6370	138.1761	136.7699	5.8527e-01	4.3221e+00
160	IHT000033	135.6220	137.9657	136.7314	5.8851e-01	4.3220e+00
161	IHT000034	124.9662	127.1146	125.8999	5.0268e-01	4.2889e+00
162	IHT000035	164.8400	166.9884	165.8673	5.4649e-01	4.4228e+00
163	IHT000036	123.4713	125.4244	124.2915	4.9126e-01	4.2843e+00

Velocity 1 = 0.010100 (ft/sec)

Velocity 2 = 0.005600 (ft/sec)

Pressure Drop = 0.007000 (psi)

Tsat in = 0.267303 (deg F) Tsat out = 0.255920 (deg F)

Phi inner = 2.210800 (kBtu/hr-ft2) Phi outer = 0.438904 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1479	0.1727
1	TRF000002	0.1304	0.1515
2	TFM000001	0.2386	0.2734
3	TIN000001	0.3072	0.3549
4	TRV000001	0.1956	0.2226
5	TSR000001	4.2113	2.9801
6	TAO020136	0.3829	0.6422
7	TAO050136	0.0580	0.0269
8	TAO070136	0.2723	0.1251
9	TAO080136	0.0895	0.0551
10	TAO090136	0.5338	0.1973
11	TAO100136	0.2246	0.0834
12	TAO105136	0.2729	0.0992
13	TAO110136	0.1364	0.0475
14	TAO115136	0.1763	0.0627
15	TAO120136	0.0477	0.0162
16	TAO125136	0.9156	0.4971
17	TAO130136	0.1138	0.0393
18	TAO120048	2.5315	2.1975
19	TAO130048	0.2242	0.0840
20	TAO120224	0.2758	0.1000
21	TAO130224	0.4903	0.1844
22	TAO120312	0.1233	0.0490
23	TAO130312	0.3203	0.1289
24	TRT020000	0.1360	0.0694
25	TRT070000	0.0950	0.0419
26	TRT100000	0.0641	0.0256
27	TRT120000	0.1716	0.0668
28	TRT125000	2.8562	2.8499
29	TRT130000	0.2191	0.0869
30	EMPTY	0.0321	0.0806
31	TAF050136	0.1588	0.1077
32	TAF070136	0.3510	0.2029
33	TAF080136	0.1056	0.0405
34	TAF090136	2.5741	2.6378
35	TAF100136	0.1884	0.0900
36	TAF105136	0.1541	0.0718
37	TAF110136	0.1052	0.0473
38	TAF115136	0.1504	0.0656
39	TAF120136	0.0360	0.0135
40	TAF125136	0.1877	0.0776
41	TAF130136	0.3610	0.1440
42	TAF120048	0.3704	0.1740
43	TAF130048	0.4891	0.2177
44	TAF120224	0.3923	0.1813
45	TAF130224	0.9671	0.4211

#	Name	Abs Diff	%Diff
46	EMPTY	0.0459	0.1203
47	EMPTY	0.0137	0.0343
48	TAI130048	0.1004	0.0381
49	TAI130136	0.1176	0.0411
50	TAI130224	0.1645	0.0647
51	TAI130312	0.0961	0.0360
52	TRR130000	0.1822	0.1209
53	TSI000001	0.0290	0.0433
54	TSI000002	2.0251	1.9103
55	TSO000001	0.0255	0.0386
56	TSO000002	0.0172	0.0209
57	TAF020136	0.2961	0.2738
58	TAF120312	0.2972	0.1494
59	TAF130312	0.5226	0.2430
60	EMPTY	0.0168	0.5048
61	EMPTY	0.0163	0.4917
62	EMPTY	0.0163	0.4937
63	EMPTY	0.0144	0.4369
64	EMPTY	0.0077	0.4718
65	EMPTY	0.0070	0.4247
66	EMPTY	0.0067	0.4039
67	EMPTY	0.0066	0.3947
68	EMPTY	0.0058	0.3452
69	EMPTY	0.0059	0.3485
70	EMPTY	0.0049	0.2879
71	EMPTY	0.0041	0.2386
72	EMPTY	0.0045	0.2606
73	EMPTY	0.0038	0.2182
74	EMPTY	0.0030	0.1712
75	EMPTY	0.0033	0.1870
76	EMPTY	0.0034	0.1917
77	EMPTY	0.0036	0.2013
78	EMPTY	0.0026	0.1441
79	EMPTY	0.0032	0.1755
80	PAN020136	1.1505	12.5767
81	PAN050136	3.0640	13.0055
82	PAN070136	0.1938	1.0737
83	PAN080136	0.6988	15.7373
84	PAN090136	1.7395	26.0716
85	PAN100136	3.5874	420.3163
86	PAN105136	0.3555	17.3406
87	PAN110136	0.5661	26.1611
88	PAN115136	0.5569	37.9282
89	PAN120136	0.0518	1.8626
90	PAN125136	0.4776	179.5489
91	PAN130136	0.3189	28.0105
92	PAN120048	2.2201	36.0359
93	PAN130048	0.2166	6.1121
94	PAN120224	0.3509	4.9908
95	PAN130224	0.5844	29.3300
96	PAN120312	0.8834	13.7644
97	PAN130312	1.3520	25.8994
98	PAB000136	0.1804	0.4493
99	PAB100136	0.1913	0.4522
100	PAB125136	0.1822	0.4265

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0586	0.1462
102	PRV000001	0.0025	0.0127
103	PSR000001	0.1489	0.3502
104	PFM000001	0.0219	0.2799
105	PAN000136	0.1922	0.2571
106	PFM000002	0.0121	0.1551
107	EMPTY	0.0001	2.0833
108	EMPTY	0.4357	4.6258
109	EMPTY	0.0002	4.6512
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0352	0.0188
113	VPW000002	0.0117	0.0057
114	VPW000003	0.0508	0.0303
115	VPW000004	0.0665	0.0472
116	VPW000005	0.0235	0.0153
117	VPW000006	0.0234	0.0102
118	IPW000001	21.7886	1.4586
119	IPW000002	25.9519	2.3357
120	IPW000003	27.0662	2.9494
121	IPW000004	5.9668	0.7965
122	IPW000005	2.0794	0.2513
123	IPW000006	5.0391	0.8395
124	EMPTY	0.0010	5.6818
125	EMPTY	0.0013	11.5044
126	EMPTY	0.0001	0.7519
127	EMPTY	0.0004	2.6144
128	IHT000001	0.1523	0.0850
129	IHT000002	0.0977	0.0531
130	IHT000003	0.1367	0.0738
131	IHT000004	0.1015	0.0506
132	IHT000005	0.1797	0.0906
133	IHT000006	0.0742	0.0385
134	IHT000007	0.0937	0.0513
135	IHT000008	0.0352	0.0195
136	IHT000009	0.0703	0.0387
137	IHT000010	0.1953	0.1162
138	IHT000011	0.1836	0.1112
139	IHT000012	0.1796	0.1107
140	IHT000013	0.1680	0.1254
141	IHT000014	0.1836	0.1071
142	IHT000015	0.1446	0.1043
143	IHT000016	0.2149	0.1755
144	IHT000017	0.1953	0.1303
145	IHT000018	0.0469	0.0310
146	IHT000019	0.1054	0.0651
147	IHT000020	0.1211	0.0727
148	IHT000021	0.1953	15.3345
149	IHT000022	0.2539	0.1849
150	IHT000023	0.1211	0.0742
151	IHT000024	0.1563	0.1218
152	IHT000025	0.2070	0.1413
153	IHT000026	0.2578	0.1738
154	IHT000027	0.2149	0.1733
155	IHT000028	0.1719	0.1362

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dIf

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#	Name	Abs DIf	%DIf
156	IHT000029	0.1016	0.0687
157	IHT000030	0.0429	0.0285
158	IHT000031	0.0351	0.0260
159	IHT000032	0.0742	0.0543
160	IHT000033	0.0586	0.0429
161	IHT000034	0.0157	0.0125
162	IHT000035	0.0196	0.0118
163	IHT000036	0.0235	0.0189

Velocity 1 = 7.0480 (ft/sec) (+/- 3.7231 %)
 Velocity 2 = 7.0367 (ft/sec) (+/- 2.0587 %)
 Pressure drop = -2.7401 (psi)
 Tsat in = 267.4601 (deg F) Tsat out = 271.2900 (deg F)
 Phi inner = 197.1527 (kBtu/hr-ft2) (+/- 1.3854 %)
 Phi outer = 201.2262 (kBtu/hr-ft2) (+/- 1.3006 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.5434	86.1775	85.8689	1.8224e-01	1.9002e+00
1	TRF000002	86.0140	86.4345	86.2621	1.3220e-01	1.9002e+00
2	TFM000001	86.3213	87.0560	86.6736	1.9306e-01	1.9002e+00
3	TIN000001	85.6409	86.3785	85.8984	1.5669e-01	1.9002e+00
4	TRV000001	86.8252	87.6647	87.2540	1.9857e-01	1.9002e+00
5	TSR000001	142.5930	145.9935	144.4735	7.3117e-01	1.9037e+00
6	TAO020136	58.4285	61.5492	59.6953	6.9910e-01	1.9001e+00
7	TAO050136	216.8709	218.7688	217.8253	4.5585e-01	1.9147e+00
8	TAO070136	217.9467	220.9130	219.5012	6.3758e-01	1.9150e+00
9	TAO080136	163.0256	164.8005	164.0675	4.5903e-01	1.9060e+00
10	TAO090136	272.3496	274.5581	273.6158	4.2289e-01	1.9277e+00
11	TAO100136	272.0774	274.2875	273.4621	4.5033e-01	1.9277e+00
12	TAO105136	278.8022	280.3663	279.5827	3.4890e-01	1.9294e+00
13	TAO110136	290.1241	290.9402	290.5451	2.1658e-01	1.9325e+00
14	TAO115136	284.4171	285.9771	285.1294	3.4339e-01	1.9309e+00
15	TAO120136	296.3874	297.1161	296.7122	1.6582e-01	1.9343e+00
16	TAO125136	185.0297	186.5872	185.7391	3.7409e-01	1.9090e+00
17	TAO130136	291.5952	292.7686	292.2309	2.7625e-01	1.9330e+00
18	TAO120048	111.1554	112.3918	111.7493	3.0056e-01	1.9012e+00
19	TAO130048	271.3326	272.9871	272.1597	3.1622e-01	1.9273e+00
20	TAO120224	279.3578	280.8267	279.9720	2.6973e-01	1.9295e+00
21	TAO130224	270.4200	271.9758	271.1466	3.2908e-01	1.9271e+00
22	TAO120312	251.9287	254.3587	253.6409	3.9932e-01	1.9226e+00
23	TAO130312	249.0989	250.1263	249.6298	2.5610e-01	1.9216e+00
24	TRT020000	196.6577	198.1126	197.4454	3.2483e-01	1.9109e+00
25	TRT070000	228.0671	229.5927	228.9298	3.4073e-01	1.9169e+00
26	TRT100000	251.0455	252.4424	251.9473	2.8273e-01	1.9222e+00
27	TRT120000	258.1213	260.0727	259.0622	3.8756e-01	1.9239e+00
28	TRT125000	96.8635	97.7982	97.3789	1.8538e-01	1.9005e+00
29	TRT130000	254.3497	256.1160	255.1373	4.0958e-01	1.9230e+00
30	EMPTY	39.3761	40.0646	39.8306	1.9391e-01	1.9011e+00
31	TAF050136	146.6238	150.6161	148.1987	8.9066e-01	1.9041e+00
32	TAF070136	172.9975	175.7341	173.9792	5.3881e-01	1.9073e+00
33	TAF080136	260.6259	263.3877	262.2275	6.3083e-01	1.9247e+00
34	TAF090136	94.0008	95.0446	94.5318	2.6998e-01	1.9004e+00
35	TAF100136	210.7710	212.6914	211.9002	4.1536e-01	1.9135e+00
36	TAF105136	216.3793	217.8961	217.2926	3.2849e-01	1.9146e+00
37	TAF110136	224.5071	226.0215	225.2263	3.9074e-01	1.9162e+00
38	TAF115136	231.6522	233.4431	232.4626	3.6839e-01	1.9177e+00
39	TAF120136	268.4256	269.8065	269.0068	3.3509e-01	1.9265e+00
40	TAF125136	246.7252	250.5312	248.4870	1.0245e+00	1.9213e+00
41	TAF130136	253.3579	260.9712	255.8791	1.9016e+00	1.9231e+00
42	TAF120048	215.2565	217.6596	216.3951	5.8428e-01	1.9144e+00
43	TAF130048	230.1805	234.0500	232.3638	9.2229e-01	1.9177e+00
44	TAF120224	219.4691	221.8474	220.4096	6.3822e-01	1.9152e+00
45	TAF130224	234.9095	237.7512	236.2740	6.8605e-01	1.9185e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.9974	38.4572	38.1997	1.8367e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0738	7.9746e-02	1.9011e+00
48	TAI130048	268.5787	270.2424	269.3077	4.1104e-01	1.9266e+00
49	TAI130136	288.3080	289.3105	288.6978	1.9600e-01	1.9320e+00
50	TAI130224	255.3433	256.5576	255.8891	3.1027e-01	1.9231e+00
51	TAI130312	269.8875	271.4599	270.7055	3.5906e-01	1.9269e+00
52	TRR130000	151.1074	152.9991	152.1155	4.4984e-01	1.9045e+00
53	TSI000001	66.4891	67.2365	66.9295	1.7745e-01	1.9000e+00
54	TSI000002	106.8121	110.7230	108.1629	7.1458e-01	1.9010e+00
55	TSO000001	65.4464	66.5191	66.0300	2.2856e-01	1.9000e+00
56	TSO000002	82.0031	82.8479	82.4675	2.0344e-01	1.9001e+00
57	TAF020136	106.2174	109.9619	107.9325	7.8027e-01	1.9010e+00
58	TAF120312	199.8170	204.5391	201.4607	9.6980e-01	1.9116e+00
59	TAF130312	214.8679	219.5365	217.3765	1.2591e+00	1.9146e+00
60	EMPTY	3.3496	3.4082	3.3822	1.2765e-02	0.0000e+00
61	EMPTY	3.3496	3.3838	3.3682	8.0747e-03	0.0000e+00
62	EMPTY	3.3447	3.3643	3.3551	5.4605e-03	0.0000e+00
63	EMPTY	3.3398	3.3594	3.3511	4.3282e-03	0.0000e+00
64	EMPTY	1.6504	1.6602	1.6551	1.6972e-03	0.0000e+00
65	EMPTY	1.6699	1.6748	1.6726	2.4583e-03	0.0000e+00
66	EMPTY	1.6797	1.6846	1.6827	2.3941e-03	0.0000e+00
67	EMPTY	1.6943	1.6992	1.6958	2.2603e-03	0.0000e+00
68	EMPTY	1.6992	1.7090	1.7042	1.5566e-03	0.0000e+00
69	EMPTY	1.7090	1.7188	1.7167	2.6267e-03	0.0000e+00
70	EMPTY	1.7236	1.7285	1.7252	2.3008e-03	0.0000e+00
71	EMPTY	1.7383	1.7480	1.7433	1.2041e-03	0.0000e+00
72	EMPTY	1.7432	1.7529	1.7518	2.3261e-03	0.0000e+00
73	EMPTY	1.7627	1.7676	1.7663	2.1635e-03	0.0000e+00
74	EMPTY	1.7725	1.7773	1.7769	1.4797e-03	0.0000e+00
75	EMPTY	1.7871	1.7920	1.7900	2.4164e-03	0.0000e+00
76	EMPTY	1.7969	1.8018	1.7971	9.6655e-04	0.0000e+00
77	EMPTY	1.8066	1.8164	1.8115	9.8648e-04	0.0000e+00
78	EMPTY	1.8262	1.8359	1.8300	2.2689e-03	0.0000e+00
79	EMPTY	1.8457	1.8506	1.8463	1.6028e-03	0.0000e+00
80	PAN020136	-19.6749	4.5103	-10.2374	6.2659e+00	8.7038e-01
81	PAN050136	-35.9676	-9.4173	-23.3334	7.1977e+00	1.6810e+00
82	PAN070136	-24.5781	-8.7090	-17.8825	4.4949e+00	8.7115e-01
83	PAN080136	-13.4980	2.9052	-2.8169	3.4089e+00	8.7003e-01
84	PAN090136	-13.1753	4.9064	-8.3367	3.6776e+00	8.7025e-01
85	PAN100136	-5.0191	21.3786	0.7365	5.2708e+00	8.7000e-01
86	PAN105136	-6.0235	0.3089	-3.1534	1.3102e+00	8.7004e-01
87	PAN110136	-6.8407	1.5517	-2.4172	1.8401e+00	8.7002e-01
88	PAN115136	-3.4398	1.4430	-1.5523	1.0649e+00	8.7001e-01
89	PAN120136	-3.3150	-1.9417	-2.7642	3.3141e-01	8.7003e-01
90	PAN125136	-0.4629	0.6816	0.1002	2.1792e-01	8.7000e-01
91	PAN130136	-0.2764	0.4865	0.0577	1.5172e-01	8.7000e-01
92	PAN120048	-10.1983	20.1667	-5.2209	5.1032e+00	8.7010e-01
93	PAN130048	-5.3932	2.8465	-1.6975	1.7949e+00	8.7001e-01
94	PAN120224	-10.1529	-2.2946	-5.7110	1.4361e+00	8.7012e-01
95	PAN130224	-3.2056	2.1350	-0.8939	1.1180e+00	8.7000e-01
96	PAN120312	-13.6491	0.0075	-6.1692	3.2345e+00	8.7014e-01
97	PAN130312	-9.6071	5.5754	-4.8738	3.4163e+00	8.7009e-01
98	PAB000136	39.6330	40.4570	40.0614	2.3300e-01	5.8858e-01
99	PAB100136	42.1076	42.4280	42.2394	7.1421e-02	5.8953e-01
100	PAB125136	42.6058	42.7889	42.7084	4.6756e-02	5.8975e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9821	40.5690	39.9148	4.8312e-01	7.5661e-01
102	PRV000001	19.7186	19.8406	19.8187	4.7374e-02	7.5163e-01
103	PSR000001	42.1300	42.3741	42.2423	4.1561e-02	7.5740e-01
104	PFM000001	7.3172	7.6834	7.5149	1.0022e-01	5.0035e-01
105	PAN000136	-89.2195	-64.0425	-75.8620	6.9280e+00	4.9237e+00
106	PFM000002	7.3996	7.5841	7.4905	4.3293e-02	2.0087e-01
107	EMPTY	-0.0049	0.0049	0.0044	1.7784e-03	0.0000e+00
108	EMPTY	-10.0000	-6.7822	-9.9138	4.6490e-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	187.4249	187.8155	187.6748	1.0470e-01	1.3871e+00
113	VPW000002	205.3861	205.9721	205.6361	1.4249e-01	1.4759e+00
114	VPW000003	167.6532	168.0439	167.8603	1.4979e-01	1.2925e+00
115	VPW000004	140.5912	141.1771	140.9155	1.1578e-01	1.1709e+00
116	VPW000005	153.5907	154.1767	153.8447	1.2633e-01	1.2281e+00
117	VPW000006	228.2865	228.6771	228.4349	1.2823e-01	1.5921e+00
118	IPW000001	1503.0043	1506.9089	1504.9564	1.0436e+00	1.4386e+01
119	IPW000002	1101.7543	1107.6082	1104.7593	1.4861e+00	1.1907e+01
120	IPW000003	900.9375	906.7875	904.2132	1.3325e+00	1.0800e+01
121	IPW000004	750.1032	751.5681	750.7770	3.4016e-01	6.2593e+00
122	IPW000005	823.1693	824.1458	823.7551	3.1194e-01	6.8081e+00
123	IPW000006	597.0458	598.0224	597.5630	3.0261e-01	5.1269e+00
124	EMPTY	-0.0244	-0.0098	-0.0173	3.5854e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	3.1257e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0126	2.8058e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0173	3.1521e-03	0.0000e+00
128	IHT000001	178.1400	180.4838	179.0580	5.4426e-01	4.4739e+00
129	IHT000002	182.7937	185.3328	183.9696	5.1219e-01	4.4938e+00
130	IHT000003	184.2886	186.6324	185.0972	5.0070e-01	4.4985e+00
131	IHT000004	199.6056	202.1447	200.7305	5.3751e-01	4.5650e+00
132	IHT000005	197.4797	199.2375	198.2335	4.2865e-01	4.5541e+00
133	IHT000006	191.6729	193.6261	192.4815	4.5508e-01	4.5293e+00
134	IHT000007	181.5993	183.7477	182.5563	4.6396e-01	4.4881e+00
135	IHT000008	180.1833	182.1364	180.9215	4.5213e-01	4.4814e+00
136	IHT000009	180.8519	182.8050	181.6214	4.8232e-01	4.4843e+00
137	IHT000010	166.5189	169.2533	167.9213	6.3220e-01	4.4305e+00
138	IHT000011	163.8071	166.5415	165.1235	6.4212e-01	4.4200e+00
139	IHT000012	161.0540	163.9836	162.2765	6.2864e-01	4.4095e+00
140	IHT000013	132.8989	135.2426	134.0083	5.7783e-01	4.3134e+00
141	IHT000014	170.3087	172.6525	171.4024	5.3379e-01	4.4439e+00
142	IHT000015	137.4399	139.7837	138.6196	5.2934e-01	4.3280e+00
143	IHT000016	121.3755	123.5239	122.3364	4.9101e-01	4.2786e+00
144	IHT000017	148.1220	151.0517	149.7783	6.4264e-01	4.3650e+00
145	IHT000018	149.5869	152.7119	151.2236	6.2252e-01	4.3700e+00
146	IHT000019	160.8323	163.3714	161.9691	5.7817e-01	4.4083e+00
147	IHT000020	165.4146	167.9537	166.6021	5.1876e-01	4.4256e+00
148	IHT000021	-3.0236	0.2967	-1.2931	7.1573e-01	4.1000e+00
149	IHT000022	136.2417	138.7808	137.3355	5.3670e-01	4.3239e+00
150	IHT000023	161.7113	164.4456	163.1723	5.7756e-01	4.4128e+00
151	IHT000024	127.1522	129.3006	128.3202	5.4604e-01	4.2961e+00
152	IHT000025	145.1209	147.6600	146.5272	5.8127e-01	4.3540e+00
153	IHT000026	146.8750	149.6094	148.4414	6.1699e-01	4.3604e+00
154	IHT000027	122.7877	124.9362	124.1119	5.2688e-01	4.2837e+00
155	IHT000028	125.1427	127.4865	126.1154	5.4030e-01	4.2896e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.6083	149.1474	147.8701	5.5272e-01	4.3585e+00
157	IHT000030	149.5643	151.7127	150.6893	5.2875e-01	4.3681e+00
158	IHT000031	134.0219	136.5610	134.9751	5.4909e-01	4.3165e+00
159	IHT000032	135.6370	138.3714	136.7777	5.9104e-01	4.3221e+00
160	IHT000033	135.4267	138.3564	136.7470	6.1834e-01	4.3220e+00
161	IHT000034	124.9662	127.1146	125.8530	5.0872e-01	4.2888e+00
162	IHT000035	164.6447	167.1837	165.8438	5.6498e-01	4.4227e+00
163	IHT000036	123.0807	125.4244	124.2290	5.0937e-01	4.2841e+00

Velocity 1 = 7.0216 (ft/sec) (+/- 3.7458 %)
Velocity 2 = 7.0182 (ft/sec) (+/- 2.0624 %)
Pressure drop = -2.6783 (psi)
Tsat in = 267.5282 (deg F) Tsat out = 271.2977 (deg F)
Phi inner = 195.3039 (kBtu/hr-ft2) (+/- 1.3882 %)
Phi outer = 201.2650 (kBtu/hr-ft2) (+/- 1.3018 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.5434	86.3888	85.9746	2.0902e-01	1.9002e+00
1	TRF000002	86.2243	86.6446	86.3714	1.5457e-01	1.9002e+00
2	TFM000001	86.2151	86.8475	86.5754	1.8642e-01	1.9002e+00
3	TIN000001	85.5360	86.1688	85.8290	1.5100e-01	1.9002e+00
4	TRV000001	86.8261	87.6667	87.2359	2.2940e-01	1.9002e+00
5	TSR000001	140.6902	143.6958	142.1825	7.4883e-01	1.9035e+00
6	TAO020136	62.5170	65.6277	64.3130	7.1337e-01	1.9000e+00
7	TAO050136	217.1562	219.1511	218.0253	4.1804e-01	1.9147e+00
8	TAO070136	218.1380	221.4869	219.8589	7.5050e-01	1.9151e+00
9	TAO080136	161.9447	163.3233	162.6565	3.1910e-01	1.9058e+00
10	TAO090136	272.3501	274.6512	273.8056	5.3262e-01	1.9278e+00
11	TAO100136	272.1684	274.5640	273.3796	5.1474e-01	1.9277e+00
12	TAO105136	278.8941	281.1947	279.7062	4.5181e-01	1.9294e+00
13	TAO110136	289.9426	290.8526	290.5443	1.8888e-01	1.9325e+00
14	TAO115136	284.5092	285.7940	285.0103	3.5561e-01	1.9309e+00
15	TAO120136	296.2052	297.1171	296.6669	1.7805e-01	1.9343e+00
16	TAO125136	186.6837	188.3368	187.5727	3.9426e-01	1.9093e+00
17	TAO130136	291.6865	292.5888	292.0976	2.3646e-01	1.9329e+00
18	TAO120048	111.6714	113.0102	112.4926	3.1236e-01	1.9012e+00
19	TAO130048	271.7915	273.3557	272.5812	3.5816e-01	1.9274e+00
20	TAO120224	278.7148	280.8278	279.7464	4.0671e-01	1.9294e+00
21	TAO130224	270.0563	272.4341	270.9154	4.9733e-01	1.9270e+00
22	TAO120312	252.0226	254.4519	253.5906	4.2638e-01	1.9226e+00
23	TAO130312	249.1929	250.2203	249.7068	2.4254e-01	1.9216e+00
24	TRT020000	196.6571	197.9185	197.2959	2.9412e-01	1.9109e+00
25	TRT070000	227.5906	229.6886	228.8702	4.0810e-01	1.9169e+00
26	TRT100000	251.2318	252.6300	252.1657	2.6069e-01	1.9222e+00
27	TRT120000	258.4006	259.8883	259.0941	4.0530e-01	1.9239e+00
28	TRT125000	96.8660	97.8006	97.3903	2.2939e-01	1.9005e+00
29	TRT130000	254.5347	255.9307	255.0542	3.0722e-01	1.9229e+00
30	EMPTY	39.3761	40.2940	39.8765	1.9500e-01	1.9011e+00
31	TAF050136	146.8257	150.8166	148.1734	9.8040e-01	1.9041e+00
32	TAF070136	172.7035	176.0296	173.9194	5.7096e-01	1.9073e+00
33	TAF080136	260.7183	263.3897	262.2157	6.4680e-01	1.9247e+00
34	TAF090136	94.5231	95.6713	95.1390	2.9903e-01	1.9004e+00
35	TAF100136	210.5787	213.1708	211.7754	5.0583e-01	1.9135e+00
36	TAF105136	216.1894	217.9915	217.0116	3.7307e-01	1.9145e+00
37	TAF110136	224.2251	227.2497	225.1039	4.8083e-01	1.9161e+00
38	TAF115136	231.4636	233.4427	232.3519	4.4956e-01	1.9177e+00
39	TAF120136	268.2415	269.6239	269.0865	2.8861e-01	1.9265e+00
40	TAF125136	246.6356	250.4392	248.7090	8.8121e-01	1.9214e+00
41	TAF130136	252.8943	260.4167	256.1824	1.9713e+00	1.9232e+00
42	TAF120048	214.7751	218.3304	216.5426	7.2638e-01	1.9144e+00
43	TAF130048	230.3696	234.3347	232.2377	9.2202e-01	1.9177e+00
44	TAF120224	217.6608	221.8483	220.1228	7.2955e-01	1.9151e+00
45	TAF130224	234.2450	238.4137	236.0217	9.1224e-01	1.9185e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1675	2.0672e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0417	1.1589e-01	1.9011e+00
48	TAI130048	268.3014	270.6118	269.2544	5.7404e-01	1.9266e+00
49	TAI130136	288.0338	289.3121	288.7074	3.0051e-01	1.9320e+00
50	TAI130224	255.3438	256.6507	256.0516	3.2185e-01	1.9232e+00
51	TAI130312	269.7032	271.0897	270.4560	3.5011e-01	1.9269e+00
52	TRR130000	151.7062	153.3984	152.5437	4.4294e-01	1.9046e+00
53	TSI000001	66.4897	67.3444	66.8811	1.9612e-01	1.9000e+00
54	TSI000002	104.9546	108.7680	106.4466	8.2318e-01	1.9009e+00
55	TSO000001	65.5533	66.3045	65.9374	1.6675e-01	1.9000e+00
56	TSO000002	81.8976	82.9532	82.4276	2.1064e-01	1.9001e+00
57	TAF020136	106.5286	109.8561	107.8925	7.8811e-01	1.9010e+00
58	TAF120312	199.4315	203.7698	201.3009	9.3205e-01	1.9116e+00
59	TAF130312	214.8679	219.2518	216.9788	1.2551e+00	1.9145e+00
60	EMPTY	3.3447	3.4082	3.3709	1.8423e-02	0.0000e+00
61	EMPTY	3.3350	3.3789	3.3578	1.2180e-02	0.0000e+00
62	EMPTY	3.3252	3.3594	3.3453	8.8034e-03	0.0000e+00
63	EMPTY	3.3252	3.3496	3.3424	6.1002e-03	0.0000e+00
64	EMPTY	1.6455	1.6553	1.6508	2.7621e-03	0.0000e+00
65	EMPTY	1.6553	1.6699	1.6677	2.9938e-03	0.0000e+00
66	EMPTY	1.6748	1.6992	1.6790	4.8337e-03	0.0000e+00
67	EMPTY	1.6895	1.6943	1.6922	2.4484e-03	0.0000e+00
68	EMPTY	1.6992	1.7041	1.7000	1.8082e-03	0.0000e+00
69	EMPTY	1.7090	1.7139	1.7125	2.2146e-03	0.0000e+00
70	EMPTY	1.7188	1.7236	1.7223	2.2146e-03	0.0000e+00
71	EMPTY	1.7334	1.7432	1.7385	1.3811e-03	0.0000e+00
72	EMPTY	1.7432	1.7529	1.7481	1.5566e-03	0.0000e+00
73	EMPTY	1.7578	1.7773	1.7626	2.6998e-03	0.0000e+00
74	EMPTY	1.7725	1.7725	1.7725	0.0000e+00	0.0000e+00
75	EMPTY	1.7773	1.7920	1.7858	2.5743e-03	0.0000e+00
76	EMPTY	1.7920	1.7969	1.7943	2.4642e-03	0.0000e+00
77	EMPTY	1.8066	1.8115	1.8079	2.1635e-03	0.0000e+00
78	EMPTY	1.8213	1.8311	1.8262	9.8648e-04	0.0000e+00
79	EMPTY	1.8408	1.8457	1.8430	2.4484e-03	0.0000e+00
80	PAN020136	-19.7512	5.3495	-7.5823	6.3277e+00	8.7021e-01
81	PAN050136	-38.4090	-14.3002	-24.8623	5.8084e+00	1.6811e+00
82	PAN070136	-24.5781	-10.8452	-19.6190	4.1334e+00	8.7138e-01
83	PAN080136	-13.8795	3.6681	-4.1993	4.1838e+00	8.7006e-01
84	PAN090136	-13.1753	3.9146	-6.6857	3.5401e+00	8.7016e-01
85	PAN100136	-5.9346	19.3186	-1.5661	4.5087e+00	8.7001e-01
86	PAN105136	-6.4813	0.9192	-2.5415	1.6482e+00	8.7002e-01
87	PAN110136	-6.1540	1.0939	-2.0952	1.5605e+00	8.7002e-01
88	PAN115136	-4.3553	0.4512	-2.7058	8.3275e-01	8.7003e-01
89	PAN120136	-3.6202	-1.7128	-2.7077	3.7184e-01	8.7003e-01
90	PAN125136	-0.5391	0.3001	-0.1073	1.8853e-01	8.7000e-01
91	PAN130136	-0.0475	0.6391	0.2805	1.7250e-01	8.7000e-01
92	PAN120048	-9.8931	-0.9667	-5.8068	1.9548e+00	8.7012e-01
93	PAN130048	-3.4859	2.7702	-0.7652	1.5959e+00	8.7000e-01
94	PAN120224	-9.0848	-2.5235	-5.8758	1.3766e+00	8.7012e-01
95	PAN130224	-2.9767	1.1432	-1.1792	1.0038e+00	8.7001e-01
96	PAN120312	-13.8017	-2.7391	-6.5461	3.2249e+00	8.7015e-01
97	PAN130312	-9.1493	6.1095	-4.7639	2.7266e+00	8.7008e-01
98	PAB000136	39.6788	40.5943	40.1072	2.5475e-01	5.8860e-01
99	PAB100136	42.0618	42.4738	42.2522	8.0284e-02	5.8954e-01
100	PAB125136	42.6058	42.7889	42.7139	4.4121e-02	5.8975e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9821	40.6911	39.8806	5.1717e-01	7.5660e-01
102	PRV000001	19.7186	19.9627	19.8455	4.2430e-02	7.5164e-01
103	PSR000001	42.1300	42.3741	42.2399	4.4460e-02	7.5740e-01
104	PFM000001	7.2256	7.6834	7.4581	8.7169e-02	5.0035e-01
105	PAN000136	-89.2195	-58.5494	-74.1499	8.0118e+00	4.9235e+00
106	PFM000002	7.3660	7.5674	7.4509	4.9407e-02	2.0087e-01
107	EMPTY	0.0000	0.0098	0.0047	1.3811e-03	0.0000e+00
108	EMPTY	-10.0000	-9.3848	-9.9788	9.6401e-02	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	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	187.4249	187.8155	187.6279	1.0410e-01	1.3869e+00
113	VPW000002	205.3861	205.7768	205.5892	9.6332e-02	1.4757e+00
114	VPW000003	167.6532	168.0439	167.8447	1.3375e-01	1.2924e+00
115	VPW000004	140.5912	141.1771	140.9155	1.2853e-01	1.1709e+00
116	VPW000005	153.5907	154.1767	153.7744	1.3329e-01	1.2278e+00
117	VPW000006	228.2865	228.6771	228.3919	1.1306e-01	1.5918e+00
118	IPW000001	1510.8136	1518.6230	1516.9059	2.1474e+00	1.4464e+01
119	IPW000002	1078.3391	1086.1442	1082.4369	1.4350e+00	1.1779e+01
120	IPW000003	891.1875	895.0875	893.3713	1.0889e+00	1.0743e+01
121	IPW000004	752.5446	754.0095	753.1891	4.3495e-01	6.2773e+00
122	IPW000005	824.6340	825.6104	825.1516	3.0257e-01	6.8186e+00
123	IPW000006	594.6044	598.0224	596.0298	8.7591e-01	5.1158e+00
124	EMPTY	-0.0244	-0.0098	-0.0186	3.8206e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	3.0003e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0155	3.0708e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.3829e-03	0.0000e+00
128	IHT000001	177.7494	180.6791	179.0268	6.6522e-01	4.4738e+00
129	IHT000002	182.7937	185.5281	183.9305	6.4921e-01	4.4937e+00
130	IHT000003	183.8980	186.8277	185.0308	6.2764e-01	4.4982e+00
131	IHT000004	199.4103	202.1447	200.6680	6.0767e-01	4.5647e+00
132	IHT000005	196.8938	199.4328	198.1319	5.8873e-01	4.5536e+00
133	IHT000006	191.2823	193.8214	192.4151	5.7045e-01	4.5291e+00
134	IHT000007	181.2087	183.7477	182.4743	5.2532e-01	4.4877e+00
135	IHT000008	179.5973	181.7458	180.8200	5.1268e-01	4.4810e+00
136	IHT000009	180.2659	182.8050	181.5511	5.6233e-01	4.4840e+00
137	IHT000010	167.1049	169.2533	167.8784	5.3519e-01	4.4304e+00
138	IHT000011	164.1977	166.1509	165.0376	5.0262e-01	4.4197e+00
139	IHT000012	160.8586	163.3977	162.1710	5.8132e-01	4.4091e+00
140	IHT000013	132.7036	135.2426	133.8755	5.0992e-01	4.3130e+00
141	IHT000014	169.9181	172.6525	171.2852	5.1750e-01	4.4434e+00
142	IHT000015	137.2446	139.9790	138.5532	5.2237e-01	4.3278e+00
143	IHT000016	120.9848	123.5239	122.3169	5.6178e-01	4.2786e+00
144	IHT000017	147.3408	150.6611	149.1846	8.5012e-01	4.3630e+00
145	IHT000018	149.5869	152.7119	151.1103	6.3992e-01	4.3696e+00
146	IHT000019	160.6370	162.7855	161.7855	5.4339e-01	4.4077e+00
147	IHT000020	165.4146	167.7584	166.4458	5.4396e-01	4.4250e+00
148	IHT000021	-2.8283	-0.0939	-1.4455	6.0598e-01	4.1000e+00
149	IHT000022	136.2417	138.1949	137.1636	4.5513e-01	4.3234e+00
150	IHT000023	162.1019	163.8597	162.9652	4.8982e-01	4.4120e+00
151	IHT000024	127.1522	129.4959	128.1288	4.9285e-01	4.2955e+00
152	IHT000025	145.3163	147.4647	146.3749	4.7201e-01	4.3535e+00
153	IHT000026	147.0703	149.4141	148.2266	4.8783e-01	4.3597e+00
154	IHT000027	122.7877	125.3268	124.0259	5.0007e-01	4.2835e+00
155	IHT000028	124.7521	127.4865	125.9943	6.2981e-01	4.2892e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.4130	149.1474	147.6943	6.3523e-01	4.3579e+00
157	IHT000030	149.1737	151.9080	150.4940	6.3938e-01	4.3675e+00
158	IHT000031	133.4360	136.1704	134.7993	5.8858e-01	4.3159e+00
159	IHT000032	135.4417	137.9808	136.6136	6.1637e-01	4.3216e+00
160	IHT000033	135.2314	137.9657	136.5634	5.9802e-01	4.3215e+00
161	IHT000034	124.7709	127.1146	125.8178	4.9875e-01	4.2887e+00
162	IHT000035	164.8400	167.1837	165.8087	5.3519e-01	4.4226e+00
163	IHT000036	123.2760	125.4244	124.2329	4.9481e-01	4.2841e+00

Test: Aug15_24 dif Date: Wed Aug 15 18:04:42 1990 Page: 1

Velocity 1 = 0.026400 (ft/sec)

Velocity 2 = 0.018500 (ft/sec)

Pressure Drop = 0.061800 (psi)

Tsat in = 0.068085 (deg F) Tsat out = 0.007690 (deg F)

Phi inner = 1.848801 (kBtu/hr-ft2) Phi outer = 0.038803 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1057	0.1231
1	TRF000002	0.1093	0.1267
2	TFM000001	0.0982	0.1133
3	TIN000001	0.0694	0.0808
4	TRV000001	0.0181	0.0207
5	TSR000001	2.2910	1.5858
6	TAO020136	4.6177	7.7355
7	TAO050136	0.2000	0.0918
8	TAO070136	0.3577	0.1630
9	TAO080136	1.4110	0.8600
10	TAO090136	0.1898	0.0694
11	TAO100136	0.0825	0.0302
12	TAO105136	0.1235	0.0442
13	TAO110136	0.0008	0.0003
14	TAO115136	0.1191	0.0418
15	TAO120136	0.0453	0.0153
16	TAO125136	1.8336	0.9872
17	TAO130136	0.1333	0.0456
18	TAO120048	0.7433	0.6652
19	TAO130048	0.4215	0.1549
20	TAO120224	0.2256	0.0806
21	TAO130224	0.2312	0.0853
22	TAO120312	0.0503	0.0198
23	TAO130312	0.0770	0.0308
24	TRT020000	0.1495	0.0757
25	TRT070000	0.0596	0.0260
26	TRT100000	0.2184	0.0867
27	TRT120000	0.0319	0.0123
28	TRT125000	0.0114	0.0117
29	TRT130000	0.0831	0.0326
30	EMPTY	0.0459	0.1152
31	TAF050136	0.0253	0.0171
32	TAF070136	0.0598	0.0344
33	TAF080136	0.0118	0.0045
34	TAF090136	0.6072	0.6423
35	TAF100136	0.1248	0.0589
36	TAF105136	0.2810	0.1293
37	TAF110136	0.1224	0.0543
38	TAF115136	0.1107	0.0476
39	TAF120136	0.0797	0.0296
40	TAF125136	0.2220	0.0893
41	TAF130136	0.3033	0.1185
42	TAF120048	0.1475	0.0682
43	TAF130048	0.1261	0.0543
44	TAF120224	0.2868	0.1301
45	TAF130224	0.2523	0.1068

#	Name	Abs Diff	%Diff
46	EMPTY	0.0322	0.0843
47	EMPTY	0.0321	0.0801
48	TAI130048	0.0533	0.0198
49	TAI130136	0.0096	0.0033
50	TAI130224	0.1625	0.0635
51	TAI130312	0.2495	0.0922
52	TRR130000	0.4282	0.2815
53	TSI000001	0.0484	0.0723
54	TSI000002	1.7163	1.5868
55	TSO000001	0.0926	0.1402
56	TSO000002	0.0399	0.0484
57	TAF020136	0.0400	0.0371
58	TAF120312	0.1598	0.0793
59	TAF130312	0.3977	0.1829
60	EMPTY	0.0113	0.3341
61	EMPTY	0.0104	0.3088
62	EMPTY	0.0098	0.2921
63	EMPTY	0.0087	0.2596
64	EMPTY	0.0043	0.2598
65	EMPTY	0.0049	0.2930
66	EMPTY	0.0037	0.2199
67	EMPTY	0.0036	0.2123
68	EMPTY	0.0042	0.2464
69	EMPTY	0.0042	0.2447
70	EMPTY	0.0029	0.1681
71	EMPTY	0.0048	0.2753
72	EMPTY	0.0037	0.2112
73	EMPTY	0.0037	0.2095
74	EMPTY	0.0044	0.2476
75	EMPTY	0.0042	0.2346
76	EMPTY	0.0028	0.1558
77	EMPTY	0.0036	0.1987
78	EMPTY	0.0038	0.2077
79	EMPTY	0.0033	0.1787
80	PAN020136	2.6551	25.9353
81	PAN050136	1.5289	6.5524
82	PAN070136	1.7365	9.7106
83	PAN080136	1.3824	49.0752
84	PAN090136	1.6510	19.8040
85	PAN100136	2.3126	312.6409
86	PAN105136	0.6119	19.4044
87	PAN110136	0.3220	13.3212
88	PAN115136	1.1535	74.3091
89	PAN120136	0.0565	2.0440
90	PAN125136	0.2075	207.0858
91	PAN130136	0.2228	386.1352
92	PAN120048	0.5859	11.2222
93	PAN130048	0.9323	54.9219
94	PAN120224	0.1648	2.8857
95	PAN130224	0.2853	31.9163
96	PAN120312	0.3769	6.1094
97	PAN130312	0.1099	2.2549
98	PAB000136	0.0458	0.1143
99	PAB100136	0.0128	0.0303
100	PAB125136	0.0055	0.0129

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0342	0.0857
102	PRV000001	0.0268	0.1352
103	PSR000001	0.0024	0.0057
104	PFM000001	0.0568	0.7558
105	PAN000136	1.7121	2.2569
106	PFM000002	0.0396	0.5287
107	EMPTY	0.0003	6.8182
108	EMPTY	0.0650	0.6556
109	EMPTY	0.0008	27.5862
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0469	0.0250
113	VPW000002	0.0469	0.0228
114	VPW000003	0.0156	0.0093
115	VPW000004	0.0000	0.0000
116	VPW000005	0.0703	0.0457
117	VPW000006	0.0430	0.0188
118	IPW000001	11.9495	0.7940
119	IPW000002	22.3224	2.0206
120	IPW000003	10.8419	1.1990
121	IPW000004	2.4121	0.3213
122	IPW000005	1.3965	0.1695
123	IPW000006	1.5332	0.2566
124	EMPTY	0.0013	7.5144
125	EMPTY	0.0001	0.7519
126	EMPTY	0.0029	23.0159
127	EMPTY	0.0009	5.2023
128	IHT000001	0.0312	0.0174
129	IHT000002	0.0391	0.0213
130	IHT000003	0.0664	0.0359
131	IHT000004	0.0625	0.0311
132	IHT000005	0.1016	0.0513
133	IHT000006	0.0664	0.0345
134	IHT000007	0.0820	0.0449
135	IHT000008	0.1015	0.0561
136	IHT000009	0.0703	0.0387
137	IHT000010	0.0429	0.0255
138	IHT000011	0.0859	0.0520
139	IHT000012	0.1055	0.0650
140	IHT000013	0.1328	0.0991
141	IHT000014	0.1172	0.0684
142	IHT000015	0.0664	0.0479
143	IHT000016	0.0195	0.0159
144	IHT000017	0.5937	0.3964
145	IHT000018	0.1133	0.0749
146	IHT000019	0.1836	0.1134
147	IHT000020	0.1563	0.0938
148	IHT000021	0.1524	11.7856
149	IHT000022	0.1719	0.1252
150	IHT000023	0.2071	0.1269
151	IHT000024	0.1914	0.1492
152	IHT000025	0.1523	0.1039
153	IHT000026	0.2148	0.1447
154	IHT000027	0.0860	0.0693
155	IHT000028	0.1211	0.0960

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1758	0.1189
157	IHT000030	0.1953	0.1296
158	IHT000031	0.1758	0.1302
159	IHT000032	0.1641	0.1200
160	IHT000033	0.1836	0.1343
161	IHT000034	0.0352	0.0280
162	IHT000035	0.0351	0.0212
163	IHT000036	0.0039	0.0031

Velocity 1 = 6.8161 (ft/sec) (+/- 3.9330 %)
 Velocity 2 = 6.8018 (ft/sec) (+/- 2.1098 %)
 Pressure drop = -2.4491 (psi)
 Tsat in = 267.7036 (deg F) Tsat out = 271.4573 (deg F)
 Phi inner = 197.6185 (kBtu/hr-ft2) (+/- 1.3846 %)
 Phi outer = 202.1231 (kBtu/hr-ft2) (+/- 1.2998 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.7548	86.3888	86.0592	2.0987e-01	1.9002e+00
1	TRF000002	86.2243	86.6446	86.4303	1.4394e-01	1.9002e+00
2	TFM000001	86.2170	87.1624	86.6807	2.1555e-01	1.9002e+00
3	TIN000001	85.6411	86.2739	85.9386	1.6592e-01	1.9002e+00
4	TRV000001	86.9317	87.9807	87.4079	2.3995e-01	1.9002e+00
5	TSR000001	142.8943	147.9899	145.4155	1.6570e+00	1.9038e+00
6	TAO020136	59.0750	62.9467	61.3752	1.2621e+00	1.9001e+00
7	TAO050136	220.0028	222.2763	221.0582	4.6292e-01	1.9153e+00
8	TAO070136	222.3465	226.1630	223.8721	8.9465e-01	1.9159e+00
9	TAO080136	164.3075	165.9819	165.1175	4.0741e-01	1.9061e+00
10	TAO090136	278.7805	280.1572	279.3408	3.0968e-01	1.9293e+00
11	TAO100136	277.7794	280.4424	279.2104	5.4979e-01	1.9293e+00
12	TAO105136	284.4087	285.7857	285.0863	3.5066e-01	1.9309e+00
13	TAO110136	292.0260	293.1154	292.5827	2.2118e-01	1.9331e+00
14	TAO115136	288.6322	290.8277	289.4214	4.6825e-01	1.9322e+00
15	TAO120136	297.8446	298.6642	298.2214	2.1227e-01	1.9348e+00
16	TAO125136	185.4199	187.6578	186.3058	5.1738e-01	1.9091e+00
17	TAO130136	293.5756	296.3644	294.7834	7.0131e-01	1.9337e+00
18	TAO120048	114.5499	115.6810	115.0909	3.1195e-01	1.9014e+00
19	TAO130048	292.2689	294.8121	293.5018	7.7710e-01	1.9334e+00
20	TAO120224	271.4423	273.1955	272.4257	3.7127e-01	1.9274e+00
21	TAO130224	261.5248	263.4607	262.5480	3.7917e-01	1.9248e+00
22	TAO120312	251.0874	254.7318	253.3663	6.7641e-01	1.9225e+00
23	TAO130312	246.1131	247.7026	246.9450	4.1932e-01	1.9210e+00
24	TRT020000	199.6633	200.9222	200.3703	3.1737e-01	1.9114e+00
25	TRT070000	231.0210	233.3043	232.1846	3.9679e-01	1.9176e+00
26	TRT100000	259.0368	260.1514	259.4998	2.8135e-01	1.9240e+00
27	TRT120000	256.3557	258.1232	257.1395	4.2550e-01	1.9234e+00
28	TRT125000	100.4835	101.4173	101.0247	2.2399e-01	1.9006e+00
29	TRT130000	259.7365	264.2711	261.8006	1.2710e+00	1.9246e+00
30	EMPTY	39.3761	40.2940	39.8030	2.2242e-01	1.9011e+00
31	TAF050136	148.7216	152.3091	150.2398	8.0092e-01	1.9043e+00
32	TAF070136	176.0258	178.2715	177.1264	4.7025e-01	1.9077e+00
33	TAF080136	263.3873	265.5964	264.7556	5.3640e-01	1.9254e+00
34	TAF090136	96.7116	97.9624	97.2559	2.8722e-01	1.9005e+00
35	TAF100136	216.4281	218.0544	217.1225	3.8740e-01	1.9145e+00
36	TAF105136	221.2014	223.6535	222.4316	5.3779e-01	1.9156e+00
37	TAF110136	229.8898	232.0570	230.9326	4.1697e-01	1.9174e+00
38	TAF115136	237.4881	239.6489	238.5688	4.6681e-01	1.9190e+00
39	TAF120136	270.8163	273.2061	271.8961	7.0508e-01	1.9273e+00
40	TAF125136	258.5781	266.6764	261.5279	1.9433e+00	1.9246e+00
41	TAF130136	266.7980	269.9350	268.4649	7.6429e-01	1.9264e+00
42	TAF120048	237.2226	270.1799	252.7461	9.3863e+00	1.9224e+00
43	TAF130048	264.2266	272.7228	269.1258	2.1036e+00	1.9265e+00
44	TAF120224	218.8050	220.9934	219.8303	5.7407e-01	1.9151e+00
45	TAF130224	227.7830	229.7813	228.8850	4.7053e-01	1.9169e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1032	2.0359e-01	1.9010e+00
47	EMPTY	39.3761	40.5234	40.0325	2.4968e-01	1.9011e+00
48	TAI130048	279.0863	280.7401	280.1252	3.6059e-01	1.9295e+00
49	TAI130136	291.1302	293.1336	292.1995	3.8307e-01	1.9330e+00
50	TAI130224	253.0064	254.8769	253.9324	4.4989e-01	1.9227e+00
51	TAI130312	261.7286	263.2157	262.5152	3.7180e-01	1.9248e+00
52	TRR130000	153.6934	155.9786	154.9436	4.6146e-01	1.9049e+00
53	TSI000001	66.0641	67.0259	66.5578	2.4022e-01	1.9000e+00
54	TSI000002	105.0570	109.4914	107.0570	1.2393e+00	1.9009e+00
55	TSO000001	65.3384	66.3040	65.7268	1.9376e-01	1.9000e+00
56	TSO000002	82.4250	83.4807	82.8791	2.4429e-01	1.9001e+00
57	TAF020136	107.1546	111.2072	109.2352	1.0529e+00	1.9010e+00
58	TAF120312	202.1320	207.2303	204.1406	1.0754e+00	1.9121e+00
59	TAF130312	216.4894	223.7165	219.6141	1.4754e+00	1.9150e+00
60	EMPTY	3.4033	3.4668	3.4352	1.7653e-02	0.0000e+00
61	EMPTY	3.3936	3.4424	3.4207	1.3278e-02	0.0000e+00
62	EMPTY	3.3838	3.4277	3.4064	1.0840e-02	0.0000e+00
63	EMPTY	3.3838	3.4180	3.4024	8.7508e-03	0.0000e+00
64	EMPTY	1.6699	1.6846	1.6796	4.4654e-03	0.0000e+00
65	EMPTY	1.6895	1.6992	1.6957	4.0721e-03	0.0000e+00
66	EMPTY	1.6992	1.7139	1.7064	4.5464e-03	0.0000e+00
67	EMPTY	1.7139	1.7236	1.7199	4.1338e-03	0.0000e+00
68	EMPTY	1.7236	1.7334	1.7281	3.9261e-03	0.0000e+00
69	EMPTY	1.7334	1.7480	1.7398	3.9998e-03	0.0000e+00
70	EMPTY	1.7432	1.7529	1.7489	3.9075e-03	0.0000e+00
71	EMPTY	1.7578	1.7725	1.7658	3.3829e-03	0.0000e+00
72	EMPTY	1.7676	1.7773	1.7745	2.8058e-03	0.0000e+00
73	EMPTY	1.7871	1.7920	1.7894	2.4583e-03	0.0000e+00
74	EMPTY	1.7969	1.8018	1.7991	2.4583e-03	0.0000e+00
75	EMPTY	1.8018	1.8164	1.8119	2.5800e-03	0.0000e+00
76	EMPTY	1.8164	1.8262	1.8200	2.3778e-03	0.0000e+00
77	EMPTY	1.8311	1.8408	1.8350	2.2058e-03	0.0000e+00
78	EMPTY	1.8506	1.8555	1.8512	1.6028e-03	0.0000e+00
79	EMPTY	1.8652	1.8750	1.8695	1.8821e-03	0.0000e+00
80	PAN020136	-19.7512	0.8481	-8.4857	5.0678e+00	8.7026e-01
81	PAN050136	-38.1039	-15.8260	-25.8419	5.1805e+00	1.6812e+00
82	PAN070136	-24.6544	-9.8534	-18.1404	4.5409e+00	8.7118e-01
83	PAN080136	-13.1166	6.1095	-2.9100	4.4645e+00	8.7003e-01
84	PAN090136	-13.0990	-2.2652	-7.0535	2.2665e+00	8.7018e-01
85	PAN100136	-8.8338	12.4522	-2.4007	3.3340e+00	8.7002e-01
86	PAN105136	-5.6421	0.1563	-2.9428	1.0578e+00	8.7003e-01
87	PAN110136	-5.0096	0.3309	-2.8703	9.9951e-01	8.7003e-01
88	PAN115136	-3.5924	-0.3117	-2.5761	6.4782e-01	8.7002e-01
89	PAN120136	-2.2469	-0.4921	-1.4229	4.2015e-01	8.7001e-01
90	PAN125136	1.2156	3.3518	2.0381	4.4787e-01	8.7001e-01
91	PAN130136	5.4456	9.0314	6.8693	7.3690e-01	8.7017e-01
92	PAN120048	-5.7732	-0.4327	-3.2479	1.3435e+00	8.7004e-01
93	PAN130048	4.9828	10.5522	7.1449	1.3124e+00	8.7018e-01
94	PAN120224	-6.4145	-0.8450	-3.2330	1.3844e+00	8.7004e-01
95	PAN130224	-4.8841	2.3639	-1.0923	1.8677e+00	8.7000e-01
96	PAN120312	-12.0469	0.3890	-4.1429	3.4775e+00	8.7006e-01
97	PAN130312	-1.2910	14.9596	4.1838	3.7519e+00	8.7006e-01
98	PAB000136	39.8619	40.6858	40.2253	2.3165e-01	5.8865e-01
99	PAB100136	42.2449	42.6111	42.4353	8.7424e-02	5.8962e-01
100	PAB125136	42.6516	43.0178	42.8274	7.1253e-02	5.8980e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3483	40.8132	40.1101	4.5311e-01	7.5667e-01
102	PRV000001	19.8406	19.8406	19.8406	1.9267e-06	7.5164e-01
103	PSR000001	42.0079	42.1300	42.0372	5.2663e-02	7.5733e-01
104	PFM000001	6.8594	7.1340	7.0223	8.5345e-02	5.0031e-01
105	PAN000136	-79.6065	-51.6829	-67.8053	7.4310e+00	4.9229e+00
106	PFM000002	6.8962	7.0807	6.9925	4.1075e-02	2.0076e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-5.4297	-9.7071	8.5863e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0046	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	187.4249	187.8155	187.6358	1.1732e-01	1.3869e+00
113	VPW000002	205.3861	205.9721	205.5853	1.2780e-01	1.4757e+00
114	VPW000003	167.8485	168.2392	168.0048	1.0440e-01	1.2931e+00
115	VPW000004	140.7865	141.1771	141.0014	1.2633e-01	1.1713e+00
116	VPW000005	153.5907	154.3720	153.8681	1.2534e-01	1.2282e+00
117	VPW000006	228.2865	228.6771	228.4857	1.2780e-01	1.5923e+00
118	IPW000001	1504.9567	1508.8613	1507.5336	1.2745e+00	1.4403e+01
119	IPW000002	1107.6082	1111.5106	1109.2080	1.2889e+00	1.1933e+01
120	IPW000003	904.8375	910.6875	907.7237	1.5380e+00	1.0818e+01
121	IPW000004	752.0563	754.0095	752.8962	4.0721e-01	6.2751e+00
122	IPW000005	830.0045	831.9575	831.3322	4.9360e-01	6.8653e+00
123	IPW000006	597.0458	598.5107	597.7876	3.3073e-01	5.1286e+00
124	EMPTY	-0.0195	-0.0098	-0.0164	2.9197e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0110	3.3901e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0120	3.4470e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0146	3.6232e-03	0.0000e+00
128	IHT000001	177.9447	180.2885	179.0072	6.0123e-01	4.4737e+00
129	IHT000002	182.7937	184.9422	183.8524	6.0243e-01	4.4933e+00
130	IHT000003	183.8980	186.2417	184.9683	6.0133e-01	4.4979e+00
131	IHT000004	199.6056	202.1447	200.7384	5.9057e-01	4.5650e+00
132	IHT000005	197.0891	199.4328	198.2374	6.1465e-01	4.5541e+00
133	IHT000006	191.6729	193.8214	192.5869	5.9509e-01	4.5298e+00
134	IHT000007	181.4040	183.7477	182.5915	5.9692e-01	4.4882e+00
135	IHT000008	179.9880	182.1364	180.9137	5.2617e-01	4.4814e+00
136	IHT000009	180.6565	183.1956	181.6175	5.9822e-01	4.4842e+00
137	IHT000010	166.5189	169.2533	167.8667	5.6943e-01	4.4303e+00
138	IHT000011	163.8071	166.3462	165.0571	5.5664e-01	4.4198e+00
139	IHT000012	160.8586	163.7883	162.1906	5.8752e-01	4.4091e+00
140	IHT000013	132.8989	135.6333	133.9927	5.7182e-01	4.3134e+00
141	IHT000014	170.1134	172.4572	171.2892	5.8592e-01	4.4434e+00
142	IHT000015	137.4399	139.7837	138.6352	5.8079e-01	4.3280e+00
143	IHT000016	121.1801	123.5239	122.3481	6.1825e-01	4.2787e+00
144	IHT000017	148.3173	151.4423	149.8369	7.0176e-01	4.3652e+00
145	IHT000018	149.9775	152.5165	151.1142	6.9776e-01	4.3696e+00
146	IHT000019	160.2464	162.9808	161.6215	4.9593e-01	4.4071e+00
147	IHT000020	165.0240	167.1725	166.2701	4.7661e-01	4.4243e+00
148	IHT000021	-3.0236	-0.6798	-1.5197	5.5699e-01	4.1000e+00
149	IHT000022	136.0464	137.8042	137.0737	3.8825e-01	4.3231e+00
150	IHT000023	161.9066	163.8597	162.8363	4.2784e-01	4.4115e+00
151	IHT000024	127.1522	128.7147	127.9882	4.1953e-01	4.2951e+00
152	IHT000025	145.5116	147.2694	146.3202	4.3227e-01	4.3533e+00
153	IHT000026	147.0703	148.8281	148.0391	3.5504e-01	4.3591e+00
154	IHT000027	122.9830	124.7408	123.9517	4.3755e-01	4.2833e+00
155	IHT000028	125.1427	127.6818	126.1818	5.8453e-01	4.2898e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.8036	149.3427	147.8935	5.6509e-01	4.3586e+00
157	IHT000030	149.5643	152.1033	150.7323	5.6288e-01	4.3683e+00
158	IHT000031	133.8266	136.5610	134.9868	5.9635e-01	4.3165e+00
159	IHT000032	135.2464	138.1761	136.7347	6.1497e-01	4.3220e+00
160	IHT000033	135.2314	138.1611	136.6611	6.2570e-01	4.3218e+00
161	IHT000034	124.5756	126.9193	125.8764	4.9538e-01	4.2889e+00
162	IHT000035	164.4494	166.7931	165.7501	4.7941e-01	4.4224e+00
163	IHT000036	122.8854	125.6197	124.2290	5.2740e-01	4.2841e+00

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Velocity 1 = 6.8224 (ft/sec) (+/- 3.9271 %)
Velocity 2 = 6.7976 (ft/sec) (+/- 2.1108 %)
Pressure drop = -2.4551 (psi)
Tsat in = 267.7063 (deg F) Tsat out = 271.5396 (deg F)
Phi inner = 196.7946 (kBtu/hr-ft2) (+/- 1.3873 %)
Phi outer = 201.0306 (kBtu/hr-ft2) (+/- 1.3006 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.7548	86.3888	86.1648	1.6760e-01	1.9002e+00
1	TRF000002	86.2243	86.8547	86.5606	1.3427e-01	1.9002e+00
2	TFM000001	86.5315	87.2672	86.9077	2.0473e-01	1.9002e+00
3	TIN000001	85.9569	86.4844	86.1577	1.4312e-01	1.9002e+00
4	TRV000001	87.2465	88.1897	87.6513	2.1254e-01	1.9002e+00
5	TSR000001	143.2956	147.7924	145.6687	1.0125e+00	1.9039e+00
6	TAO020136	65.3060	66.8052	65.8607	3.3287e-01	1.9000e+00
7	TAO050136	220.6669	222.4655	221.4376	3.8308e-01	1.9154e+00
8	TAO070136	223.1102	226.4485	224.3986	7.7979e-01	1.9160e+00
9	TAO080136	197.9459	199.8681	198.9975	4.2147e-01	1.9112e+00
10	TAO090136	278.9654	280.4323	279.8106	3.3454e-01	1.9294e+00
11	TAO100136	278.3311	280.9925	279.8089	5.4707e-01	1.9294e+00
12	TAO105136	285.2355	286.8858	285.9448	4.1413e-01	1.9312e+00
13	TAO110136	292.7512	293.5666	293.1047	1.8226e-01	1.9332e+00
14	TAO115136	289.1815	290.9195	289.9228	4.1859e-01	1.9323e+00
15	TAO120136	298.1175	298.9370	298.5345	1.9028e-01	1.9349e+00
16	TAO125136	187.1708	189.1132	188.0280	4.5275e-01	1.9094e+00
17	TAO130136	293.3996	296.4523	294.4332	7.2527e-01	1.9336e+00
18	TAO120048	114.4483	115.5784	114.9721	2.9575e-01	1.9014e+00
19	TAO130048	291.3585	294.2674	293.0664	6.7370e-01	1.9332e+00
20	TAO120224	271.2583	273.1950	272.3412	3.7815e-01	1.9274e+00
21	TAO130224	261.9877	263.6422	262.6853	4.0990e-01	1.9248e+00
22	TAO120312	252.4899	254.9185	253.6282	4.4681e-01	1.9226e+00
23	TAO130312	246.4873	248.5412	247.4611	4.0334e-01	1.9211e+00
24	TRT020000	199.8570	201.4058	200.5677	3.2993e-01	1.9115e+00
25	TRT070000	231.5926	233.4946	232.6180	4.1052e-01	1.9177e+00
26	TRT100000	259.6869	260.8919	260.2193	2.9955e-01	1.9242e+00
27	TRT120000	256.5424	258.4008	257.5006	4.0514e-01	1.9235e+00
28	TRT125000	99.5565	100.3852	99.9148	1.9419e-01	1.9006e+00
29	TRT130000	259.9204	266.9505	263.4185	1.6129e+00	1.9250e+00
30	EMPTY	39.3761	40.2940	39.8535	2.1166e-01	1.9011e+00
31	TAF050136	149.1223	152.2100	150.4197	8.1203e-01	1.9044e+00
32	TAF070136	176.2248	178.5650	177.4393	5.5186e-01	1.9078e+00
33	TAF080136	263.2052	266.3313	264.9111	5.7873e-01	1.9254e+00
34	TAF090136	96.3993	97.4416	96.8524	2.7963e-01	1.9005e+00
35	TAF100136	216.6190	218.8185	217.5128	4.5666e-01	1.9146e+00
36	TAF105136	222.1476	224.0330	222.9797	4.1894e-01	1.9157e+00
37	TAF110136	230.9266	232.4343	231.7018	4.2807e-01	1.9175e+00
38	TAF115136	237.7707	240.3058	239.2714	5.0380e-01	1.9192e+00
39	TAF120136	271.0929	273.6635	272.2679	7.0476e-01	1.9274e+00
40	TAF125136	258.6721	267.4111	262.9097	1.9293e+00	1.9249e+00
41	TAF130136	267.5374	270.1188	268.9044	5.6527e-01	1.9265e+00
42	TAF120048	241.0111	271.4803	256.9037	8.0474e+00	1.9234e+00
43	TAF130048	263.1148	272.5386	269.2812	2.1459e+00	1.9266e+00
44	TAF120224	219.2810	221.8483	220.1313	5.5598e-01	1.9151e+00
45	TAF130224	228.5439	230.6367	229.3529	5.1902e-01	1.9170e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1032	2.3321e-01	1.9010e+00
47	EMPTY	39.6057	40.5234	40.0233	2.5258e-01	1.9011e+00
48	TAI130048	279.3625	281.1079	280.3935	3.4340e-01	1.9296e+00
49	TAI130136	291.9503	293.1331	292.4619	2.7625e-01	1.9331e+00
50	TAI130224	252.6322	255.0638	253.9997	5.1389e-01	1.9227e+00
51	TAI130312	261.3571	263.4947	262.5487	4.2258e-01	1.9248e+00
52	TRR130000	154.7864	156.6710	155.7656	3.9133e-01	1.9049e+00
53	TSI000001	66.4914	67.1315	66.7714	1.5234e-01	1.9000e+00
54	TSI000002	105.7814	108.4612	106.7653	6.9690e-01	1.9009e+00
55	TSO000001	65.3379	66.0898	65.8253	1.8687e-01	1.9000e+00
56	TSO000002	82.4260	83.4802	83.0354	2.3751e-01	1.9001e+00
57	TAF020136	107.0495	111.3099	108.9064	8.8450e-01	1.9010e+00
58	TAF120312	202.4217	207.6144	204.6565	1.2432e+00	1.9122e+00
59	TAF130312	217.1566	223.2422	219.9419	1.2889e+00	1.9151e+00
60	EMPTY	3.4082	3.4717	3.4392	1.5365e-02	0.0000e+00
61	EMPTY	3.4082	3.4424	3.4233	9.3195e-03	0.0000e+00
62	EMPTY	3.3887	3.4277	3.4092	7.3159e-03	0.0000e+00
63	EMPTY	3.3936	3.4131	3.4045	5.2719e-03	0.0000e+00
64	EMPTY	1.6748	1.6846	1.6797	2.7902e-03	0.0000e+00
65	EMPTY	1.6895	1.6992	1.6967	2.6543e-03	0.0000e+00
66	EMPTY	1.7041	1.7090	1.7070	2.4164e-03	0.0000e+00
67	EMPTY	1.7139	1.7236	1.7209	2.6396e-03	0.0000e+00
68	EMPTY	1.7236	1.7334	1.7281	2.1702e-03	0.0000e+00
69	EMPTY	1.7383	1.7432	1.7410	2.4484e-03	0.0000e+00
70	EMPTY	1.7480	1.7529	1.7498	2.3675e-03	0.0000e+00
71	EMPTY	1.7627	1.7676	1.7668	1.8082e-03	0.0000e+00
72	EMPTY	1.7725	1.7773	1.7751	2.4583e-03	0.0000e+00
73	EMPTY	1.7871	1.7920	1.7902	2.3675e-03	0.0000e+00
74	EMPTY	1.7969	1.8018	1.7999	2.3941e-03	0.0000e+00
75	EMPTY	1.8115	1.8164	1.8121	1.6028e-03	0.0000e+00
76	EMPTY	1.8213	1.8262	1.8214	6.9053e-04	0.0000e+00
77	EMPTY	1.8311	1.8359	1.8355	1.3381e-03	0.0000e+00
78	EMPTY	1.8506	1.8555	1.8515	1.8950e-03	0.0000e+00
79	EMPTY	1.8701	1.8750	1.8703	9.6655e-04	0.0000e+00
80	PAN020136	-19.7512	2.7555	-10.4525	6.0747e+00	8.7039e-01
81	PAN050136	-36.5780	-15.6734	-26.4767	4.9856e+00	1.6813e+00
82	PAN070136	-24.6544	-7.2594	-19.4816	4.7319e+00	8.7136e-01
83	PAN080136	-13.9558	9.9242	-0.8973	5.6396e+00	8.7000e-01
84	PAN090136	-13.1753	0.5576	-6.7651	2.4958e+00	8.7016e-01
85	PAN100136	-6.0872	13.2914	-2.7562	3.4905e+00	8.7003e-01
86	PAN105136	-4.7265	-0.9881	-2.6986	9.5043e-01	8.7003e-01
87	PAN110136	-4.0941	-1.3475	-2.9543	7.3832e-01	8.7003e-01
88	PAN115136	-3.5924	-1.6087	-2.7684	4.1588e-01	8.7003e-01
89	PAN120136	-2.3995	-0.3396	-1.4412	4.5390e-01	8.7001e-01
90	PAN125136	1.5971	4.0385	2.5248	5.9064e-01	8.7002e-01
91	PAN130136	5.8271	8.7263	7.1332	6.5133e-01	8.7018e-01
92	PAN120048	-4.8577	0.1777	-2.9092	1.3012e+00	8.7003e-01
93	PAN130048	4.8302	11.6966	7.6668	1.3253e+00	8.7021e-01
94	PAN120224	-7.5589	0.9098	-3.3123	2.1644e+00	8.7004e-01
95	PAN130224	-5.2655	3.4320	-0.8496	2.2917e+00	8.7000e-01
96	PAN120312	-13.2676	1.2282	-3.1724	3.1709e+00	8.7004e-01
97	PAN130312	-2.4354	13.9678	3.7428	3.3568e+00	8.7005e-01
98	PAB000136	39.6788	40.7316	40.2271	2.7582e-01	5.8865e-01
99	PAB100136	42.3364	42.6569	42.5031	8.3111e-02	5.8965e-01
100	PAB125136	42.7431	43.0178	42.8860	6.6459e-02	5.8983e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.1042	40.5690	39.9856	4.2019e-01	7.5663e-01
102	PRV000001	19.7186	19.8406	19.7552	5.6508e-02	7.5162e-01
103	PSR000001	41.8859	42.1300	42.0323	5.5146e-02	7.5733e-01
104	PFM000001	6.8594	7.2256	7.0352	8.4438e-02	5.0031e-01
105	PAN000136	-80.9798	-49.8519	-67.9701	8.3506e+00	4.9229e+00
106	PFM000002	6.8626	7.1311	6.9834	5.9398e-02	2.0076e-01
107	EMPTY	-0.0049	0.0049	0.0047	1.3811e-03	0.0000e+00
108	EMPTY	-10.0000	-6.3330	-9.7204	8.1728e-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	187.4249	187.8155	187.6358	9.5357e-02	1.3869e+00
113	VPW000002	205.5815	205.9721	205.6986	1.1838e-01	1.4763e+00
114	VPW000003	167.6532	168.6298	167.9541	1.9812e-01	1.2929e+00
115	VPW000004	140.7865	141.1771	141.0405	1.0625e-01	1.1714e+00
116	VPW000005	153.5907	153.9814	153.8174	1.0705e-01	1.2279e+00
117	VPW000006	228.2865	228.6771	228.4740	1.2453e-01	1.5923e+00
118	IPW000001	1503.0043	1508.8613	1506.3232	1.2628e+00	1.4395e+01
119	IPW000002	1097.8518	1107.6082	1103.3542	2.6057e+00	1.1899e+01
120	IPW000003	895.0875	902.8875	898.5586	2.2387e+00	1.0770e+01
121	IPW000004	750.1032	752.5446	751.3532	5.5066e-01	6.2636e+00
122	IPW000005	823.1693	824.6340	823.9113	4.0957e-01	6.8092e+00
123	IPW000006	593.6279	595.5810	594.4966	3.8574e-01	5.1046e+00
124	EMPTY	-0.0293	-0.0098	-0.0188	4.0685e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0127	3.2718e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0139	3.3249e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.3146e-03	0.0000e+00
128	IHT000001	177.7494	180.4838	178.8979	5.3034e-01	4.4733e+00
129	IHT000002	182.5984	185.3328	183.8094	5.8394e-01	4.4932e+00
130	IHT000003	183.8980	186.4370	184.9136	5.8925e-01	4.4977e+00
131	IHT000004	199.6056	202.3400	200.5704	6.1815e-01	4.5643e+00
132	IHT000005	196.8938	199.4328	198.0655	5.8261e-01	4.5533e+00
133	IHT000006	191.2823	194.0167	192.3955	5.9615e-01	4.5290e+00
134	IHT000007	181.4040	183.7477	182.4196	5.7453e-01	4.4875e+00
135	IHT000008	179.7926	182.1364	180.8043	5.5900e-01	4.4810e+00
136	IHT000009	180.4612	182.8050	181.4574	5.7892e-01	4.4836e+00
137	IHT000010	166.7142	168.6674	167.7495	5.2534e-01	4.4299e+00
138	IHT000011	164.0024	165.9556	164.9204	4.8206e-01	4.4193e+00
139	IHT000012	161.2493	163.2024	162.0656	4.7135e-01	4.4087e+00
140	IHT000013	132.8989	134.8520	133.7661	4.6213e-01	4.3127e+00
141	IHT000014	169.9181	172.4572	171.0938	5.2570e-01	4.4427e+00
142	IHT000015	137.2446	139.3930	138.4321	4.9731e-01	4.3274e+00
143	IHT000016	121.1801	123.3286	122.2739	4.9912e-01	4.2784e+00
144	IHT000017	147.3408	150.6611	149.0986	8.0190e-01	4.3627e+00
145	IHT000018	149.7822	152.5165	151.0635	6.3154e-01	4.3694e+00
146	IHT000019	160.6370	163.3714	161.8051	5.3159e-01	4.4077e+00
147	IHT000020	165.6100	168.1490	166.5123	5.6344e-01	4.4252e+00
148	IHT000021	-2.6330	0.1014	-1.3166	6.7521e-01	4.1000e+00
149	IHT000022	136.2417	138.1949	137.2417	4.9856e-01	4.3236e+00
150	IHT000023	162.1019	164.2503	163.0941	5.5220e-01	4.4125e+00
151	IHT000024	127.3475	129.3006	128.1718	4.9330e-01	4.2957e+00
152	IHT000025	145.3163	147.6600	146.4257	5.3879e-01	4.3536e+00
153	IHT000026	147.0703	149.4141	148.3281	4.6882e-01	4.3601e+00
154	IHT000027	122.9830	125.3268	124.0845	4.5465e-01	4.2837e+00
155	IHT000028	124.7521	127.6818	126.0763	6.9058e-01	4.2895e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.4130	149.1474	147.7099	7.0117e-01	4.3580e+00
157	IHT000030	149.1737	152.1033	150.5526	7.4703e-01	4.3677e+00
158	IHT000031	133.4360	136.3657	134.8266	7.2827e-01	4.3160e+00
159	IHT000032	135.2464	138.5667	136.5980	7.6192e-01	4.3216e+00
160	IHT000033	135.2314	138.5517	136.5634	7.5458e-01	4.3215e+00
161	IHT000034	124.7709	127.3099	125.8686	5.9042e-01	4.2889e+00
162	IHT000035	164.6447	167.5744	165.7696	6.2460e-01	4.4224e+00
163	IHT000036	123.0807	125.8150	124.2603	5.8787e-01	4.2842e+00

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Velocity 1 = 0.006300 (ft/sec)

Velocity 2 = 0.004200 (ft/sec)

Pressure Drop = 0.006000 (psi)

Tsat in = 0.002686 (deg F) Tsat out = 0.082306 (deg F)

Phi inner = 0.823898 (kBtu/hr-ft2) Phi outer = 1.092499 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1056	0.1227
1	TRF000002	0.1303	0.1508
2	TFM000001	0.2270	0.2619
3	TIN000001	0.2191	0.2550
4	TRV000001	0.2434	0.2785
5	TSR000001	0.2532	0.1741
6	TAO020136	4.4855	7.3083
7	TAO050136	0.3794	0.1716
8	TAO070136	0.5265	0.2352
9	TAO080136	33.8800	20.5187
10	TAO090136	0.4698	0.1682
11	TAO100136	0.5985	0.2144
12	TAO105136	0.8585	0.3011
13	TAO110136	0.5220	0.1784
14	TAO115136	0.5014	0.1732
15	TAO120136	0.3131	0.1050
16	TAO125136	1.7222	0.9244
17	TAO130136	0.3502	0.1188
18	TAO120048	0.1188	0.1032
19	TAO130048	0.4354	0.1483
20	TAO120224	0.0845	0.0310
21	TAO130224	0.1373	0.0523
22	TAO120312	0.2619	0.1034
23	TAO130312	0.5161	0.2090
24	TRT020000	0.1974	0.0985
25	TRT070000	0.4334	0.1867
26	TRT100000	0.7195	0.2773
27	TRT120000	0.3611	0.1404
28	TRT125000	1.1099	1.0986
29	TRT130000	1.6179	0.6180
30	EMPTY	0.0505	0.1269
31	TAF050136	0.1799	0.1197
32	TAF070136	0.3129	0.1767
33	TAF080136	0.1555	0.0587
34	TAF090136	0.4035	0.4149
35	TAF100136	0.3903	0.1798
36	TAF105136	0.5481	0.2464
37	TAF110136	0.7692	0.3331
38	TAF115136	0.7026	0.2945
39	TAF120136	0.3718	0.1368
40	TAF125136	1.3818	0.5284
41	TAF130136	0.4395	0.1637
42	TAF120048	4.1576	1.6450
43	TAF130048	0.1554	0.0577
44	TAF120224	0.3010	0.1369
45	TAF130224	0.4679	0.2044

#	Name	Abs Diff	%Diff
46	EMPTY	0.0000	0.0000
47	EMPTY	0.0092	0.0230
48	TAI130048	0.2683	0.0958
49	TAI130136	0.2624	0.0898
50	TAI130224	0.0673	0.0265
51	TAI130312	0.0335	0.0128
52	TRR130000	0.8220	0.5305
53	TSI000001	0.2136	0.3209
54	TSI000002	0.2917	0.2725
55	TSO000001	0.0985	0.1499
56	TSO000002	0.1563	0.1886
57	TAF020136	0.3288	0.3010
58	TAF120312	0.5159	0.2527
59	TAF130312	0.3278	0.1493
60	EMPTY	0.0040	0.1164
61	EMPTY	0.0026	0.0760
62	EMPTY	0.0028	0.0822
63	EMPTY	0.0021	0.0617
64	EMPTY	0.0001	0.0060
65	EMPTY	0.0010	0.0590
66	EMPTY	0.0006	0.0352
67	EMPTY	0.0010	0.0581
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0012	0.0690
70	EMPTY	0.0009	0.0515
71	EMPTY	0.0010	0.0566
72	EMPTY	0.0006	0.0338
73	EMPTY	0.0008	0.0447
74	EMPTY	0.0008	0.0445
75	EMPTY	0.0002	0.0110
76	EMPTY	0.0014	0.0769
77	EMPTY	0.0005	0.0272
78	EMPTY	0.0003	0.0162
79	EMPTY	0.0008	0.0428
80	PAN020136	1.9668	23.1778
81	PAN050136	0.6348	2.4565
82	PAN070136	1.3412	7.3934
83	PAN080136	2.0127	69.1649
84	PAN090136	0.2884	4.0888
85	PAN100136	0.3555	14.8082
86	PAN105136	0.2442	8.2982
87	PAN110136	0.0840	2.9265
88	PAN115136	0.1923	7.4648
89	PAN120136	0.0183	1.2861
90	PAN125136	0.4867	23.8801
91	PAN130136	0.2639	3.8417
92	PAN120048	0.3387	10.4283
93	PAN130048	0.5219	7.3045
94	PAN120224	0.0793	2.4528
95	PAN130224	0.2427	22.2192
96	PAN120312	0.9705	23.4256
97	PAN130312	0.4410	10.5407
98	PAB000136	0.0018	0.0045
99	PAB100136	0.0678	0.1598
100	PAB125136	0.0586	0.1368

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1245	0.3104
102	PRV000001	0.0854	0.4304
103	PSR000001	0.0049	0.0117
104	PFM000001	0.0129	0.1837
105	PAN000136	0.1648	0.2431
106	PFM000002	0.0091	0.1301
107	EMPTY	0.0002	4.0816
108	EMPTY	0.0133	0.1370
109	EMPTY	0.0002	4.3478
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0000	0.0000
113	VPW000002	0.1133	0.0551
114	VPW000003	0.0507	0.0302
115	VPW000004	0.0391	0.0277
116	VPW000005	0.0507	0.0330
117	VPW000006	0.0117	0.0051
118	IPW000001	1.2103	0.0803
119	IPW000002	5.8538	0.5277
120	IPW000003	9.1651	1.0097
121	IPW000004	1.5430	0.2049
122	IPW000005	7.4209	0.8927
123	IPW000006	3.2910	0.5505
124	EMPTY	0.0024	14.6341
125	EMPTY	0.0017	15.4545
126	EMPTY	0.0019	15.8333
127	EMPTY	0.0011	7.5342
128	IHT000001	0.1093	0.0611
129	IHT000002	0.0430	0.0234
130	IHT000003	0.0547	0.0296
131	IHT000004	0.1680	0.0837
132	IHT000005	0.1719	0.0867
133	IHT000006	0.1914	0.0994
134	IHT000007	0.1719	0.0941
135	IHT000008	0.1094	0.0605
136	IHT000009	0.1601	0.0881
137	IHT000010	0.1172	0.0698
138	IHT000011	0.1367	0.0828
139	IHT000012	0.1250	0.0771
140	IHT000013	0.2266	0.1691
141	IHT000014	0.1954	0.1141
142	IHT000015	0.2031	0.1465
143	IHT000016	0.0742	0.0606
144	IHT000017	0.7383	0.4927
145	IHT000018	0.0507	0.0335
146	IHT000019	0.1836	0.1136
147	IHT000020	0.2422	0.1457
148	IHT000021	0.2031	13.3645
149	IHT000022	0.1680	0.1226
150	IHT000023	0.2578	0.1583
151	IHT000024	0.1836	0.1435
152	IHT000025	0.1055	0.0721
153	IHT000026	0.2890	0.1952
154	IHT000027	0.1328	0.1071
155	IHT000028	0.1055	0.0836

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1836	0.1241
157	IHT000030	0.1797	0.1192
158	IHT000031	0.1602	0.1187
159	IHT000032	0.1367	0.1000
160	IHT000033	0.0977	0.0715
161	IHT000034	0.0078	0.0062
162	IHT000035	0.0195	0.0118
163	IHT000036	0.0313	0.0252

Velocity 1 = 6.9072 (ft/sec) (+/- 3.8481 %)
Velocity 2 = 6.8952 (ft/sec) (+/- 2.0887 %)
Pressure drop = -2.8572 (psi)
Tsats in = 267.8121 (deg F) Tsats out = 271.9200 (deg F)
Phi inner = 197.6733 (kBtu/hr-ft2) (+/- 1.3841 %)
Phi outer = 202.2070 (kBtu/hr-ft2) (+/- 1.2997 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.9662	86.6001	86.2747	2.1856e-01	1.9002e+00
1	TRF000002	86.4345	87.2749	86.7161	1.5661e-01	1.9002e+00
2	TFM000001	87.1610	88.0021	87.5144	2.0094e-01	1.9002e+00
3	TIN000001	86.3785	87.2203	86.7745	1.7999e-01	1.9002e+00
4	TRV000001	87.8747	88.9223	88.2813	2.2073e-01	1.9002e+00
5	TSR000001	145.6972	148.7908	147.1932	8.9437e-01	1.9040e+00
6	TAO020136	65.4129	68.4096	67.5793	6.9756e-01	1.9000e+00
7	TAO050136	219.3401	221.5214	220.5619	4.8295e-01	1.9152e+00
8	TAO070136	221.1044	224.6368	222.8808	7.7641e-01	1.9157e+00
9	TAO080136	198.3302	199.7737	199.0426	3.8486e-01	1.9112e+00
10	TAO090136	276.9488	278.7829	277.9277	4.1073e-01	1.9289e+00
11	TAO100136	276.6792	278.7915	277.7151	4.7776e-01	1.9288e+00
12	TAO105136	283.4917	285.2352	284.1891	3.3376e-01	1.9307e+00
13	TAO110136	292.1173	292.9367	292.4748	1.9839e-01	1.9331e+00
14	TAO115136	287.4427	289.2742	288.2558	4.6561e-01	1.9318e+00
15	TAO120136	298.1175	298.8465	298.4930	1.5789e-01	1.9349e+00
16	TAO125136	188.7245	190.2790	189.6144	3.0279e-01	1.9096e+00
17	TAO130136	291.8722	293.5819	292.5429	3.7699e-01	1.9331e+00
18	TAO120048	114.1397	115.4760	114.8226	3.0071e-01	1.9014e+00
19	TAO130048	280.4141	282.2445	281.2419	4.5588e-01	1.9298e+00
20	TAO120224	282.5708	283.9465	283.1545	2.9049e-01	1.9304e+00
21	TAO130224	273.7174	275.6365	274.7576	4.0143e-01	1.9280e+00
22	TAO120312	256.3182	257.7163	257.0675	3.2179e-01	1.9234e+00
23	TAO130312	250.6860	252.0839	251.3391	2.8167e-01	1.9220e+00
24	TRT020000	198.9847	200.4383	199.5392	3.0073e-01	1.9113e+00
25	TRT070000	231.2111	232.8284	231.9229	3.6731e-01	1.9176e+00
26	TRT100000	254.3037	255.5142	254.9815	2.4721e-01	1.9229e+00
27	TRT120000	261.2788	263.0418	262.3477	4.1994e-01	1.9248e+00
28	TRT125000	97.5912	98.7340	98.1939	2.3553e-01	1.9005e+00
29	TRT130000	256.9531	258.5312	257.7660	3.3331e-01	1.9236e+00
30	EMPTY	39.3761	40.2940	39.8030	2.2720e-01	1.9011e+00
31	TAF050136	148.7229	152.2118	150.0678	9.0898e-01	1.9043e+00
32	TAF070136	175.3447	177.5915	176.3771	5.6005e-01	1.9076e+00
33	TAF080136	262.6531	265.4121	264.1896	6.0466e-01	1.9252e+00
34	TAF090136	96.1915	97.2348	96.8091	3.0582e-01	1.9005e+00
35	TAF100136	214.4164	216.2363	215.3940	4.3096e-01	1.9142e+00
36	TAF105136	219.7910	221.8675	220.8355	5.1560e-01	1.9153e+00
37	TAF110136	228.5704	230.5529	229.4130	4.7655e-01	1.9170e+00
38	TAF115136	235.9871	238.0538	237.0762	5.1244e-01	1.9187e+00
39	TAF120136	271.0033	272.7498	271.7931	3.9079e-01	1.9272e+00
40	TAF125136	253.3151	257.0104	254.6643	7.1651e-01	1.9228e+00
41	TAF130136	259.2124	264.3989	261.5177	1.2799e+00	1.9246e+00
42	TAF120048	218.8104	222.0694	220.5975	7.1881e-01	1.9152e+00
43	TAF130048	244.9529	251.1226	247.7107	1.4775e+00	1.9212e+00
44	TAF120224	223.7462	226.2112	225.0702	5.9977e-01	1.9161e+00
45	TAF130224	240.5871	243.8898	242.3845	7.1815e-01	1.9199e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1491	2.1087e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0784	1.0781e-01	1.9011e+00
48	TAI130048	272.7348	275.5009	274.1772	5.7514e-01	1.9279e+00
49	TAI130136	287.2159	288.4024	287.7631	2.7112e-01	1.9317e+00
50	TAI130224	256.8374	258.1441	257.5170	3.5117e-01	1.9235e+00
51	TAI130312	272.6616	274.0462	273.2523	3.0431e-01	1.9276e+00
52	TRR130000	155.0865	156.5724	155.8002	3.8655e-01	1.9050e+00
53	TSI000001	66.2784	67.1332	66.6251	1.8135e-01	1.9000e+00
54	TSI000002	103.9224	107.1234	105.0884	8.3305e-01	1.9008e+00
55	TSO000001	65.2299	66.3035	65.7411	2.2068e-01	1.9000e+00
56	TSO000002	81.8980	83.1644	82.6329	2.4123e-01	1.9001e+00
57	TAF020136	107.1529	110.9979	108.9453	9.4601e-01	1.9010e+00
58	TAF120312	202.5181	205.6942	204.1972	7.0795e-01	1.9121e+00
59	TAF130312	216.3009	222.4850	219.4267	1.4854e+00	1.9150e+00
60	EMPTY	3.3936	3.4668	3.4232	1.9873e-02	0.0000e+00
61	EMPTY	3.3936	3.4375	3.4089	1.1838e-02	0.0000e+00
62	EMPTY	3.3887	3.4131	3.3963	6.9166e-03	0.0000e+00
63	EMPTY	3.3838	3.4131	3.3939	5.9057e-03	0.0000e+00
64	EMPTY	1.6699	1.6846	1.6755	3.6924e-03	0.0000e+00
65	EMPTY	1.6895	1.7041	1.6926	4.3851e-03	0.0000e+00
66	EMPTY	1.6992	1.7139	1.7034	4.6280e-03	0.0000e+00
67	EMPTY	1.7139	1.7285	1.7172	4.6730e-03	0.0000e+00
68	EMPTY	1.7188	1.7383	1.7265	4.8418e-03	0.0000e+00
69	EMPTY	1.7334	1.7480	1.7385	5.5769e-03	0.0000e+00
70	EMPTY	1.7432	1.7578	1.7482	5.4889e-03	0.0000e+00
71	EMPTY	1.7578	1.7725	1.7653	5.0503e-03	0.0000e+00
72	EMPTY	1.7627	1.7822	1.7737	5.6505e-03	0.0000e+00
73	EMPTY	1.7725	1.7969	1.7883	6.1257e-03	0.0000e+00
74	EMPTY	1.7920	1.8066	1.7995	5.3315e-03	0.0000e+00
75	EMPTY	1.8066	1.8213	1.8124	4.6990e-03	0.0000e+00
76	EMPTY	1.8115	1.8311	1.8216	4.6699e-03	0.0000e+00
77	EMPTY	1.8262	1.8408	1.8361	4.2954e-03	0.0000e+00
78	EMPTY	1.8457	1.8604	1.8523	4.2727e-03	0.0000e+00
79	EMPTY	1.8652	1.8750	1.8709	4.2269e-03	0.0000e+00
80	PAN020136	-19.7512	1.0007	-11.4916	5.7080e+00	8.7047e-01
81	PAN050136	-38.2565	-14.9105	-25.7473	5.4754e+00	1.6812e+00
82	PAN070136	-24.6544	-11.5318	-20.3575	3.9903e+00	8.7149e-01
83	PAN080136	-13.2691	6.1858	-2.3057	4.1062e+00	8.7002e-01
84	PAN090136	-12.1072	-0.6631	-6.8932	2.5118e+00	8.7017e-01
85	PAN100136	-6.9265	0.8555	-3.5939	1.9273e+00	8.7005e-01
86	PAN105136	-6.8628	0.9955	-2.5598	1.4686e+00	8.7002e-01
87	PAN110136	-4.7807	-0.1268	-3.1999	1.0385e+00	8.7004e-01
88	PAN115136	-3.8213	-1.5324	-2.7043	4.9197e-01	8.7003e-01
89	PAN120136	-2.7047	-1.8654	-2.3446	2.0217e-01	8.7002e-01
90	PAN125136	-0.2340	0.2238	-0.0234	1.2575e-01	8.7000e-01
91	PAN130136	2.3176	3.8435	2.9432	3.2515e-01	8.7003e-01
92	PAN120048	-9.9694	-0.9667	-6.3546	2.1592e+00	8.7015e-01
93	PAN130048	-2.9518	3.1517	-0.3242	1.6948e+00	8.7000e-01
94	PAN120224	-6.6433	-1.2265	-4.1394	1.5254e+00	8.7006e-01
95	PAN130224	-1.9086	0.2276	-1.1258	5.4731e-01	8.7000e-01
96	PAN120312	-12.8862	-0.1451	-4.7792	2.2475e+00	8.7008e-01
97	PAN130312	-8.9204	0.5400	-4.0895	2.3270e+00	8.7006e-01
98	PAB000136	39.9076	40.6858	40.2986	2.4138e-01	5.8868e-01
99	PAB100136	42.5196	42.8400	42.6779	7.1762e-02	5.8973e-01
100	PAB125136	43.0178	43.2467	43.1579	5.7317e-02	5.8995e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4704	40.8132	40.2224	3.7512e-01	7.5671e-01
102	PRV000001	19.5965	19.7186	19.7161	1.7263e-02	7.5162e-01
103	PSR000001	42.4962	42.7404	42.6134	4.9077e-02	7.5753e-01
104	PFM000001	7.0425	7.4087	7.2128	9.0633e-02	5.0033e-01
105	PAN000136	-90.5928	-66.3314	-79.1029	7.8807e+00	4.9240e+00
106	PFM000002	7.0472	7.3157	7.1875	5.8497e-02	2.0081e-01
107	EMPTY	-0.0049	0.0049	0.0046	1.5314e-03	0.0000e+00
108	EMPTY	-10.0000	-6.8262	-9.5201	8.7704e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0042	1.9754e-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	187.4249	187.8155	187.6240	8.3612e-02	1.3869e+00
113	VPW000002	205.3861	205.7768	205.5072	1.1765e-01	1.4753e+00
114	VPW000003	167.4579	168.0439	167.9345	1.2577e-01	1.2928e+00
115	VPW000004	140.7865	141.1771	140.9233	1.2001e-01	1.1709e+00
116	VPW000005	153.5907	153.9814	153.8252	1.1161e-01	1.2280e+00
117	VPW000006	228.0912	228.8725	228.4466	1.3491e-01	1.5921e+00
118	IPW000001	1504.9567	1510.8136	1508.4703	1.5777e+00	1.4409e+01
119	IPW000002	1105.6569	1113.4619	1109.9105	1.4586e+00	1.1937e+01
120	IPW000003	904.8375	912.6375	909.7513	2.2713e+00	1.0829e+01
121	IPW000004	750.5915	753.5212	752.2516	6.6906e-01	6.2703e+00
122	IPW000005	829.5163	832.4457	831.6057	6.5459e-01	6.8674e+00
123	IPW000006	597.0458	598.9990	597.9634	4.3718e-01	5.1298e+00
124	EMPTY	-0.0293	-0.0098	-0.0183	4.0446e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0118	2.8058e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0137	3.5568e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0146	3.1950e-03	0.0000e+00
128	IHT000001	177.5541	180.6791	178.8549	6.4430e-01	4.4731e+00
129	IHT000002	182.4031	185.3328	183.7352	5.8884e-01	4.4929e+00
130	IHT000003	183.5074	186.2417	184.7847	5.9609e-01	4.4972e+00
131	IHT000004	199.2150	201.9494	200.5235	5.8026e-01	4.5641e+00
132	IHT000005	196.6985	199.2375	197.9796	5.0864e-01	4.5530e+00
133	IHT000006	191.0870	193.6261	192.3213	4.6928e-01	4.5287e+00
134	IHT000007	181.2087	183.5524	182.3180	4.6928e-01	4.4871e+00
135	IHT000008	179.4020	182.1364	180.6950	4.8950e-01	4.4805e+00
136	IHT000009	180.4612	183.1956	181.4105	5.2350e-01	4.4834e+00
137	IHT000010	166.9095	169.4486	167.7026	5.6965e-01	4.4297e+00
138	IHT000011	164.1977	166.5415	164.8931	5.5686e-01	4.4192e+00
139	IHT000012	161.2493	163.7883	162.0773	5.8734e-01	4.4087e+00
140	IHT000013	133.0942	135.6333	133.8364	5.4391e-01	4.3129e+00
141	IHT000014	170.1134	172.8478	171.2188	5.7806e-01	4.4432e+00
142	IHT000015	137.4399	139.7837	138.5845	5.5103e-01	4.3279e+00
143	IHT000016	121.1801	123.7192	122.2895	5.2116e-01	4.2785e+00
144	IHT000017	148.3173	151.6376	149.8603	6.0393e-01	4.3653e+00
145	IHT000018	150.1728	152.5165	151.3056	5.8261e-01	4.3703e+00
146	IHT000019	160.2464	162.7855	161.7230	5.5124e-01	4.4074e+00
147	IHT000020	165.0240	167.5631	166.5044	5.6371e-01	4.4252e+00
148	IHT000021	-2.8283	-0.2892	-1.3791	6.5088e-01	4.1000e+00
149	IHT000022	136.0464	138.1949	137.3159	4.9795e-01	4.3238e+00
150	IHT000023	161.9066	163.8597	162.9731	5.1329e-01	4.4120e+00
151	IHT000024	126.9569	128.7147	128.0428	4.7542e-01	4.2953e+00
152	IHT000025	144.9256	147.4647	146.3280	5.4916e-01	4.3533e+00
153	IHT000026	146.8750	148.8281	148.0117	4.6637e-01	4.3590e+00
154	IHT000027	122.7877	124.9362	123.8306	4.7615e-01	4.2829e+00
155	IHT000028	124.9474	127.4865	126.2365	6.2015e-01	4.2899e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.6083	148.7568	147.9560	5.9615e-01	4.3588e+00
157	IHT000030	149.7596	151.9080	150.7636	6.3136e-01	4.3684e+00
158	IHT000031	133.8266	136.1704	135.0298	6.1048e-01	4.3166e+00
159	IHT000032	135.8323	138.1761	136.8597	6.1613e-01	4.3224e+00
160	IHT000033	135.8173	137.9657	136.8134	5.9353e-01	4.3222e+00
161	IHT000034	124.9662	126.9193	125.8842	5.0107e-01	4.2889e+00
162	IHT000035	164.8400	166.7931	165.8282	5.2409e-01	4.4227e+00
163	IHT000036	123.2760	125.2291	124.2642	5.2111e-01	4.2842e+00

Velocity 1 = 6.8925 (ft/sec) (+/- 3.8617 %)
Velocity 2 = 6.8910 (ft/sec) (+/- 2.0896 %)
Pressure drop = -2.8278 (psi)
Tsats in = 267.4452 (deg F) Tsats out = 271.5755 (deg F)
Phi inner = 196.5138 (kBtu/hr-ft2) (+/- 1.3877 %)
Phi outer = 200.9029 (kBtu/hr-ft2) (+/- 1.3009 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.9662	86.6001	86.4100	1.9210e-01	1.9002e+00
1	TRF000002	86.4345	87.2749	86.7497	1.4857e-01	1.9002e+00
2	TFM000001	87.2666	88.0021	87.6240	1.4541e-01	1.9002e+00
3	TIN000001	86.5892	87.2212	86.9220	1.5094e-01	1.9002e+00
4	TRV000001	87.8747	88.8180	88.2486	2.4046e-01	1.9002e+00
5	TSR000001	145.0957	148.3930	146.6750	6.3383e-01	1.9040e+00
6	TAO020136	62.8390	64.9850	64.1568	4.8652e-01	1.9000e+00
7	TAO050136	219.4380	221.6166	220.5740	4.2104e-01	1.9152e+00
8	TAO070136	221.3905	225.0185	223.0184	7.4207e-01	1.9157e+00
9	TAO080136	200.2502	201.9799	201.0622	3.9160e-01	1.9115e+00
10	TAO090136	277.4972	278.9677	278.1960	3.6575e-01	1.9290e+00
11	TAO100136	277.9659	280.5350	279.1144	4.6246e-01	1.9292e+00
12	TAO105136	284.5931	286.7943	285.6755	4.3136e-01	1.9311e+00
13	TAO110136	292.3003	293.2999	292.8411	2.0247e-01	1.9332e+00
14	TAO115136	288.5414	291.0114	289.6433	4.3883e-01	1.9322e+00
15	TAO120136	298.5728	299.3921	299.1006	2.0387e-01	1.9350e+00
16	TAO125136	189.5032	191.2487	190.3441	4.1256e-01	1.9097e+00
17	TAO130136	292.9515	294.6661	293.7162	4.3655e-01	1.9334e+00
18	TAO120048	115.4752	116.6051	116.0177	3.0833e-01	1.9014e+00
19	TAO130048	278.1263	280.5992	279.1673	6.1000e-01	1.9292e+00
20	TAO120224	283.6711	285.3203	284.4119	3.5497e-01	1.9307e+00
21	TAO130224	275.3620	277.1860	276.2326	4.0488e-01	1.9284e+00
22	TAO120312	256.2246	257.6235	257.1013	3.4165e-01	1.9234e+00
23	TAO130312	251.0587	252.4583	251.7717	3.8430e-01	1.9221e+00
24	TRT020000	198.5973	200.1475	199.3028	3.8162e-01	1.9112e+00
25	TRT070000	230.5444	232.3527	231.5953	3.5908e-01	1.9175e+00
26	TRT100000	253.2831	254.7703	253.9373	2.8817e-01	1.9227e+00
27	TRT120000	260.4446	262.2074	261.3840	4.0447e-01	1.9245e+00
28	TRT125000	100.2807	101.2142	100.7077	2.2119e-01	1.9006e+00
29	TRT130000	256.8600	258.8102	257.9892	5.0309e-01	1.9237e+00
30	EMPTY	39.3761	40.0646	39.7663	1.9258e-01	1.9011e+00
31	TAF050136	148.5252	151.8138	150.0087	8.3459e-01	1.9043e+00
32	TAF070136	175.1515	177.8850	176.1983	6.0389e-01	1.9076e+00
33	TAF080136	262.8371	265.0470	263.9845	5.1134e-01	1.9252e+00
34	TAF090136	97.8572	98.7953	98.3744	2.4602e-01	1.9005e+00
35	TAF100136	215.0873	217.3850	215.8996	5.0993e-01	1.9143e+00
36	TAF105136	220.6392	222.8107	221.5463	5.0377e-01	1.9154e+00
37	TAF110136	229.4201	231.4010	230.4090	4.6049e-01	1.9173e+00
38	TAF115136	237.2075	239.7445	238.4183	4.8042e-01	1.9190e+00
39	TAF120136	271.2799	273.5768	272.5945	4.1650e-01	1.9275e+00
40	TAF125136	255.7173	259.4093	257.4514	9.5250e-01	1.9235e+00
41	TAF130136	262.5489	267.9089	264.7748	1.2490e+00	1.9254e+00
42	TAF120048	220.4408	223.0260	221.4637	6.2120e-01	1.9154e+00
43	TAF130048	240.5449	248.6955	244.6259	2.0210e+00	1.9204e+00
44	TAF120224	226.0226	229.5237	227.6842	9.7932e-01	1.9167e+00
45	TAF130224	242.7585	245.7743	244.1916	6.3266e-01	1.9203e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1032	2.1890e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0601	1.3506e-01	1.9011e+00
48	TAI130048	271.6293	274.4872	273.0530	5.8337e-01	1.9276e+00
49	TAI130136	286.9420	288.4943	287.5850	2.8258e-01	1.9316e+00
50	TAI130224	257.3043	258.5172	257.7821	3.0998e-01	1.9236e+00
51	TAI130312	273.5848	274.6924	274.0352	2.4990e-01	1.9278e+00
52	TRR130000	155.1847	156.4771	155.8207	3.1580e-01	1.9050e+00
53	TSI000001	66.1721	66.8147	66.5064	1.8512e-01	1.9000e+00
54	TSI000002	105.6786	108.0516	106.6449	6.4813e-01	1.9009e+00
55	TSO000001	65.2299	66.0878	65.5907	1.9724e-01	1.9000e+00
56	TSO000002	82.1095	83.0596	82.5531	2.3837e-01	1.9001e+00
57	TAF020136	107.5691	110.5819	108.9202	8.4935e-01	1.9010e+00
58	TAF120312	203.7698	207.5201	205.4134	7.3630e-01	1.9123e+00
59	TAF130312	217.9200	223.2444	220.3021	1.4962e+00	1.9152e+00
60	EMPTY	3.4082	3.4814	3.4433	2.1628e-02	0.0000e+00
61	EMPTY	3.4033	3.4570	3.4287	1.6536e-02	0.0000e+00
62	EMPTY	3.3936	3.4375	3.4150	1.3881e-02	0.0000e+00
63	EMPTY	3.3936	3.4326	3.4111	1.2041e-02	0.0000e+00
64	EMPTY	1.6748	1.6895	1.6826	5.5804e-03	0.0000e+00
65	EMPTY	1.6943	1.7090	1.6996	4.8166e-03	0.0000e+00
66	EMPTY	1.7041	1.7188	1.7093	4.3461e-03	0.0000e+00
67	EMPTY	1.7139	1.7285	1.7227	4.1853e-03	0.0000e+00
68	EMPTY	1.7188	1.7383	1.7308	4.5432e-03	0.0000e+00
69	EMPTY	1.7383	1.7480	1.7427	3.7239e-03	0.0000e+00
70	EMPTY	1.7480	1.7578	1.7517	3.3901e-03	0.0000e+00
71	EMPTY	1.7627	1.7773	1.7685	3.5141e-03	0.0000e+00
72	EMPTY	1.7725	1.7822	1.7764	3.4173e-03	0.0000e+00
73	EMPTY	1.7871	1.7969	1.7914	3.3656e-03	0.0000e+00
74	EMPTY	1.7969	1.8066	1.8011	2.7919e-03	0.0000e+00
75	EMPTY	1.8115	1.8164	1.8139	2.4642e-03	0.0000e+00
76	EMPTY	1.8213	1.8311	1.8231	2.5894e-03	0.0000e+00
77	EMPTY	1.8359	1.8408	1.8373	2.2146e-03	0.0000e+00
78	EMPTY	1.8506	1.8604	1.8535	2.6100e-03	0.0000e+00
79	EMPTY	1.8701	1.8799	1.8721	2.6100e-03	0.0000e+00
80	PAN020136	-19.7512	3.6710	-12.9397	6.1735e+00	8.7060e-01
81	PAN050136	-37.9513	-12.9269	-24.0475	5.2797e+00	1.6811e+00
82	PAN070136	-24.5781	-8.1749	-19.0422	4.5779e+00	8.7130e-01
83	PAN080136	-10.9040	6.3384	-2.5285	3.5998e+00	8.7002e-01
84	PAN090136	-13.0990	-1.2734	-6.3470	2.3683e+00	8.7014e-01
85	PAN100136	-7.3079	3.7547	-2.9897	2.5815e+00	8.7003e-01
86	PAN105136	-6.3287	-0.3015	-3.5486	1.2869e+00	8.7005e-01
87	PAN110136	-5.6200	0.1021	-2.8215	9.8315e-01	8.7003e-01
88	PAN115136	-4.1264	-0.9221	-3.0080	7.8028e-01	8.7003e-01
89	PAN120136	-2.6284	-1.2551	-1.8960	2.7226e-01	8.7001e-01
90	PAN125136	-0.1577	0.6053	0.1811	1.5655e-01	8.7000e-01
91	PAN130136	3.4620	5.4456	4.3958	4.6715e-01	8.7007e-01
92	PAN120048	-9.5116	-1.9585	-5.6130	1.6674e+00	8.7011e-01
93	PAN130048	-2.8755	2.4651	-0.7957	1.1094e+00	8.7000e-01
94	PAN120224	-5.9567	-1.6079	-3.9776	1.1134e+00	8.7006e-01
95	PAN130224	-1.4508	-0.0013	-0.9229	3.0511e-01	8.7000e-01
96	PAN120312	-11.5129	0.2364	-4.3672	2.4166e+00	8.7007e-01
97	PAN130312	-8.3864	2.7526	-3.8682	2.5477e+00	8.7005e-01
98	PAB000136	39.6788	40.5027	40.0514	2.4919e-01	5.8858e-01
99	PAB100136	42.2907	42.6111	42.4262	7.2207e-02	5.8962e-01
100	PAB125136	42.7889	43.0178	42.9116	5.7339e-02	5.8984e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9821	40.3249	39.7634	4.2286e-01	7.5656e-01
102	PRV000001	19.7186	19.8406	19.7894	6.0861e-02	7.5163e-01
103	PSR000001	42.1300	42.3741	42.2692	5.5201e-02	7.5741e-01
104	PFM000001	6.9509	7.4087	7.1817	1.0664e-01	5.0032e-01
105	PAN000136	-91.0506	-67.7047	-78.2881	7.4370e+00	4.9239e+00
106	PFM000002	7.0975	7.2318	7.1784	3.6146e-02	2.0080e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-7.2266	-9.7926	6.1248e-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	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	187.4249	187.8155	187.6201	7.8918e-02	1.3868e+00
113	VPW000002	205.3861	205.9721	205.5892	1.4205e-01	1.4757e+00
114	VPW000003	167.6532	168.2392	167.9541	1.1306e-01	1.2929e+00
115	VPW000004	140.7865	141.1771	140.9702	1.2731e-01	1.1711e+00
116	VPW000005	153.5907	153.9814	153.8252	1.2478e-01	1.2280e+00
117	VPW000006	228.2865	228.6771	228.4935	1.2104e-01	1.5924e+00
118	IPW000001	1503.0043	1508.8613	1505.9719	1.3224e+00	1.4393e+01
119	IPW000002	1097.8518	1103.7056	1100.6619	1.6330e+00	1.1883e+01
120	IPW000003	895.0875	898.9875	896.5304	1.3539e+00	1.0760e+01
121	IPW000004	751.0798	752.5446	751.8708	3.4016e-01	6.2675e+00
122	IPW000005	823.6575	824.6340	823.9797	2.8945e-01	6.8098e+00
123	IPW000006	594.1161	595.5810	594.6724	4.1864e-01	5.1059e+00
124	EMPTY	-0.0244	-0.0098	-0.0180	4.4599e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0118	3.2851e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0126	3.7029e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0152	3.5072e-03	0.0000e+00
128	IHT000001	177.9447	180.0931	179.0737	5.3857e-01	4.4740e+00
129	IHT000002	182.7937	185.1375	183.9110	5.2946e-01	4.4936e+00
130	IHT000003	183.8980	186.0464	184.9839	4.8834e-01	4.4980e+00
131	IHT000004	199.8009	201.7540	200.6407	4.6897e-01	4.5646e+00
132	IHT000005	197.0891	199.2375	198.1007	4.8116e-01	4.5535e+00
133	IHT000006	191.4776	193.4307	192.4268	4.4819e-01	4.5291e+00
134	IHT000007	181.5993	183.5524	182.3961	4.7816e-01	4.4874e+00
135	IHT000008	179.9880	182.1364	180.7184	4.7648e-01	4.4806e+00
136	IHT000009	180.6565	182.8050	181.5042	5.4335e-01	4.4838e+00
137	IHT000010	166.5189	169.0580	167.7221	6.5716e-01	4.4298e+00
138	IHT000011	163.6118	166.3462	164.8970	6.5684e-01	4.4192e+00
139	IHT000012	160.6633	163.5930	161.9757	6.2520e-01	4.4084e+00
140	IHT000013	132.5083	135.2426	133.7973	6.4113e-01	4.3128e+00
141	IHT000014	169.9181	172.4572	171.0548	6.2973e-01	4.4425e+00
142	IHT000015	137.4399	140.1743	138.4868	6.3105e-01	4.3276e+00
143	IHT000016	121.1801	123.9145	122.2309	5.9958e-01	4.2783e+00
144	IHT000017	148.3173	151.4423	149.5478	7.2464e-01	4.3642e+00
145	IHT000018	149.7822	152.7119	151.0049	6.4454e-01	4.3692e+00
146	IHT000019	160.8323	162.7855	161.8832	4.0412e-01	4.4080e+00
147	IHT000020	165.6100	167.5631	166.6138	4.0628e-01	4.4256e+00
148	IHT000021	-2.2424	-0.2892	-1.1994	4.0933e-01	4.1000e+00
149	IHT000022	136.6324	137.9996	137.4253	2.9898e-01	4.3242e+00
150	IHT000023	162.1019	163.8597	163.2387	3.5882e-01	4.4130e+00
151	IHT000024	127.1522	129.1053	128.3710	4.0156e-01	4.2963e+00
152	IHT000025	145.1209	147.8553	146.6249	4.7392e-01	4.3543e+00
153	IHT000026	147.0703	149.6094	148.5469	5.0403e-01	4.3608e+00
154	IHT000027	122.7877	125.5221	124.2173	4.9825e-01	4.2840e+00
155	IHT000028	124.9474	127.0959	126.1036	5.6887e-01	4.2895e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.6083	148.9521	147.7920	5.6139e-01	4.3582e+00
157	IHT000030	149.3690	151.9080	150.6308	5.4848e-01	4.3679e+00
158	IHT000031	133.8266	136.1704	134.9399	5.6531e-01	4.3163e+00
159	IHT000032	135.4417	137.9808	136.7425	5.8873e-01	4.3220e+00
160	IHT000033	135.2314	137.9657	136.7197	6.1497e-01	4.3219e+00
161	IHT000034	124.5756	126.9193	125.8530	4.8522e-01	4.2888e+00
162	IHT000035	164.6447	166.9884	165.8048	5.2853e-01	4.4226e+00
163	IHT000036	123.2760	125.4244	124.2329	4.9951e-01	4.2841e+00

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Velocity 1 = 0.014700 (ft/sec)

Velocity 2 = 0.004200 (ft/sec)

Pressure Drop = 0.029400 (psi)

Tsat in = 0.366913 (deg F) Tsat out = 0.344513 (deg F)

Phi inner = 1.159500 (kBtu/hr-ft2) Phi outer = 1.304108 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1353	0.1568
1	TRF000002	0.0336	0.0387
2	TFM000001	0.1096	0.1252
3	TIN000001	0.1475	0.1700
4	TRV000001	0.0327	0.0370
5	TSR000001	0.5182	0.3521
6	TAO020136	3.4225	5.0644
7	TAO050136	0.0121	0.0055
8	TAO070136	0.1376	0.0617
9	TAO080136	2.0196	1.0147
10	TAO090136	0.2683	0.0965
11	TAO100136	1.3993	0.5039
12	TAO105136	1.4864	0.5230
13	TAO110136	0.3663	0.1252
14	TAO115136	1.3875	0.4813
15	TAO120136	0.6076	0.2035
16	TAO125136	0.7297	0.3848
17	TAO130136	1.1733	0.4011
18	TAO120048	1.1951	1.0408
19	TAO130048	2.0746	0.7377
20	TAO120224	1.2574	0.4441
21	TAO130224	1.4750	0.5368
22	TAO120312	0.0338	0.0131
23	TAO130312	0.4326	0.1721
24	TRT020000	0.2364	0.1185
25	TRT070000	0.3276	0.1412
26	TRT100000	1.0442	0.4095
27	TRT120000	0.9637	0.3673
28	TRT125000	2.5138	2.5600
29	TRT130000	0.2232	0.0866
30	EMPTY	0.0367	0.0922
31	TAF050136	0.0591	0.0394
32	TAF070136	0.1788	0.1014
33	TAF080136	0.2051	0.0776
34	TAF090136	1.5653	1.6169
35	TAF100136	0.5056	0.2347
36	TAF105136	0.7108	0.3219
37	TAF110136	0.9960	0.4342
38	TAF115136	1.3421	0.5661
39	TAF120136	0.8014	0.2949
40	TAF125136	2.7871	1.0944
41	TAF130136	3.2571	1.2455
42	TAF120048	0.8662	0.3927
43	TAF130048	3.0848	1.2453
44	TAF120224	2.6140	1.1614
45	TAF130224	1.8071	0.7456

#	Name	Abs Diff	%Diff
46	EMPTY	0.0459	0.1203
47	EMPTY	0.0183	0.0457
48	TAI130048	1.1242	0.4100
49	TAI130136	0.1781	0.0619
50	TAI130224	0.2651	0.1029
51	TAI130312	0.7829	0.2865
52	TRR130000	0.0205	0.0132
53	TSI000001	0.1187	0.1782
54	TSI000002	1.5565	1.4811
55	TSO000001	0.1504	0.2288
56	TSO000002	0.0798	0.0966
57	TAF020136	0.0251	0.0230
58	TAF120312	1.2162	0.5956
59	TAF130312	0.8754	0.3989
60	EMPTY	0.0201	0.5872
61	EMPTY	0.0198	0.5808
62	EMPTY	0.0187	0.5506
63	EMPTY	0.0172	0.5068
64	EMPTY	0.0071	0.4238
65	EMPTY	0.0070	0.4136
66	EMPTY	0.0059	0.3464
67	EMPTY	0.0055	0.3203
68	EMPTY	0.0043	0.2491
69	EMPTY	0.0042	0.2416
70	EMPTY	0.0035	0.2002
71	EMPTY	0.0032	0.1813
72	EMPTY	0.0027	0.1522
73	EMPTY	0.0031	0.1733
74	EMPTY	0.0016	0.0889
75	EMPTY	0.0015	0.0828
76	EMPTY	0.0015	0.0823
77	EMPTY	0.0012	0.0654
78	EMPTY	0.0012	0.0648
79	EMPTY	0.0012	0.0641
80	PAN020136	1.4481	12.6014
81	PAN050136	1.6998	6.6019
82	PAN070136	1.3153	6.4610
83	PAN080136	0.2228	9.6630
84	PAN090136	0.5462	7.9237
85	PAN100136	0.6042	16.8118
86	PAN105136	0.9888	38.6280
87	PAN110136	0.3784	11.8254
88	PAN115136	0.3037	11.2303
89	PAN120136	0.4486	19.1333
90	PAN125136	0.2045	873.9316
91	PAN130136	1.4526	49.3544
92	PAN120048	0.7416	11.6703
93	PAN130048	0.4715	145.4349
94	PAN120224	0.1618	3.9088
95	PAN130224	0.2029	18.0227
96	PAN120312	0.4120	8.6207
97	PAN130312	0.2213	5.4114
98	PAB000136	0.2472	0.6134
99	PAB100136	0.2517	0.5898
100	PAB125136	0.2463	0.5707

#	Name	Abs Diff	%Diff
101	PIN000001	0.4590	1.1412
102	PRV000001	0.0733	0.3718
103	PSR000001	0.3442	0.8077
104	PFM000001	0.0311	0.4312
105	PAN000136	0.8148	1.0300
106	PFM000002	0.0091	0.1266
107	EMPTY	0.0003	6.5217
108	EMPTY	0.2725	2.8624
109	EMPTY	0.0007	16.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0039	0.0021
113	VPW000002	0.0820	0.0399
114	VPW000003	0.0196	0.0117
115	VPW000004	0.0469	0.0333
116	VPW000005	0.0000	0.0000
117	VPW000006	0.0469	0.0205
118	IPW000001	2.4984	0.1656
119	IPW000002	9.2487	0.8333
120	IPW000003	13.2209	1.4532
121	IPW000004	0.3808	0.0506
122	IPW000005	7.6260	0.9170
123	IPW000006	3.2910	0.5504
124	EMPTY	0.0003	1.6394
125	EMPTY	0.0000	0.0000
126	EMPTY	0.0011	8.0292
127	EMPTY	0.0006	4.1096
128	IHT000001	0.2188	0.1223
129	IHT000002	0.1758	0.0957
130	IHT000003	0.1992	0.1078
131	IHT000004	0.1172	0.0584
132	IHT000005	0.1211	0.0612
133	IHT000006	0.1055	0.0549
134	IHT000007	0.0781	0.0428
135	IHT000008	0.0234	0.0129
136	IHT000009	0.0937	0.0516
137	IHT000010	0.0195	0.0116
138	IHT000011	0.0039	0.0024
139	IHT000012	0.1016	0.0627
140	IHT000013	0.0391	0.0292
141	IHT000014	0.1640	0.0958
142	IHT000015	0.0977	0.0705
143	IHT000016	0.0586	0.0479
144	IHT000017	0.3125	0.2085
145	IHT000018	0.3007	0.1987
146	IHT000019	0.1602	0.0991
147	IHT000020	0.1094	0.0657
148	IHT000021	0.1797	13.0302
149	IHT000022	0.1094	0.0797
150	IHT000023	0.2656	0.1630
151	IHT000024	0.3282	0.2563
152	IHT000025	0.2969	0.2029
153	IHT000026	0.5352	0.3616
154	IHT000027	0.3867	0.3123
155	IHT000028	0.1329	0.1053

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1640	0.1108
157	IHT000030	0.1328	0.0881
158	IHT000031	0.0899	0.0666
159	IHT000032	0.1172	0.0856
160	IHT000033	0.0937	0.0685
161	IHT000034	0.0312	0.0248
162	IHT000035	0.0234	0.0141
163	IHT000036	0.0313	0.0252

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sum1

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Velocity 1 = 26.0049 (ft/sec) (+/- 1.6888 %)
Velocity 2 = 13.4154 (ft/sec) (+/- 1.7033 %)
Pressure drop = 19.1977 (psi)
Tsats in = 267.9272 (deg F) Tsats out = 232.1639 (deg F)
Phi inner = 99.3952 (kBtu/hr-ft2) (+/- 1.4163 %)
Phi outer = 100.3787 (kBtu/hr-ft2) (+/- 1.5427 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	82.9758	83.8232	83.4123	2.0260e-01	1.9001e+00
1	TRF0000002	83.3145	83.9467	83.6011	1.2600e-01	1.9001e+00
2	TFM0000001	87.3351	88.0694	87.6433	1.7410e-01	1.9002e+00
3	TIN0000001	86.5766	87.1029	86.9027	1.2638e-01	1.9002e+00
4	TRV0000001	87.3323	88.1706	87.7622	2.1504e-01	1.9002e+00
5	TSR0000001	103.4677	104.5013	103.9338	2.6521e-01	1.9008e+00
6	TAO020136	67.6333	69.7711	68.8202	5.8704e-01	1.9000e+00
7	TAO050136	106.9762	107.8000	107.3570	1.7564e-01	1.9009e+00
8	TAO070136	109.6711	110.8104	110.1373	2.5899e-01	1.9011e+00
9	TAO080136	92.0994	93.5578	92.7055	4.6593e-01	1.9003e+00
10	TAO090136	115.8786	116.5972	116.2257	1.7580e-01	1.9014e+00
11	TAO100136	114.4550	115.1740	114.7815	1.6717e-01	1.9014e+00
12	TAO105136	115.0432	115.8661	115.4072	2.1010e-01	1.9014e+00
13	TAO110136	117.2669	117.9819	117.5716	1.5917e-01	1.9015e+00
14	TAO115136	114.0047	114.8286	114.4149	2.3834e-01	1.9013e+00
15	TAO120136	119.5494	120.3698	119.9164	1.9977e-01	1.9017e+00
16	TAO125136	82.5678	83.7262	83.2861	2.9812e-01	1.9001e+00
17	TAO130136	116.1194	116.8327	116.4760	1.5342e-01	1.9015e+00
18	TAO120048	86.3045	87.2514	86.8623	2.8256e-01	1.9002e+00
19	TAO130048	119.0315	119.7476	119.3243	1.6160e-01	1.9016e+00
20	TAO120224	118.6263	119.3439	118.9933	1.7708e-01	1.9016e+00
21	TAO130224	113.8279	114.5451	114.1200	1.8109e-01	1.9013e+00
22	TAO120312	117.2325	118.2592	117.8132	1.9536e-01	1.9015e+00
23	TAO130312	118.2890	119.2101	118.8108	1.7711e-01	1.9016e+00
24	TRT020000	106.9446	107.9807	107.3236	2.0794e-01	1.9009e+00
25	TRT070000	113.7732	114.3935	114.0316	1.6076e-01	1.9013e+00
26	TRT100000	119.3893	120.3096	119.9474	2.2454e-01	1.9017e+00
27	TRT120000	96.9943	98.2438	97.4757	3.0904e-01	1.9005e+00
28	TRT125000	82.9458	83.7876	83.3221	1.8396e-01	1.9001e+00
29	TRT130000	120.3714	121.1893	120.6238	1.8271e-01	1.9017e+00
30	EMPTY	39.3761	40.2940	39.7709	2.4553e-01	1.9011e+00
31	TAF050136	93.5907	94.3213	93.9436	1.8370e-01	1.9004e+00
32	TAF070136	97.2287	98.0593	97.6209	2.1819e-01	1.9005e+00
33	TAF080136	111.8780	112.6979	112.3559	1.8116e-01	1.9012e+00
34	TAF090136	83.4415	84.5998	84.0166	2.5187e-01	1.9001e+00
35	TAF100136	101.0333	101.7620	101.3769	2.0953e-01	1.9007e+00
36	TAF105136	101.7752	102.6036	102.2072	2.4384e-01	1.9007e+00
37	TAF110136	102.3528	103.1827	102.8769	1.6686e-01	1.9007e+00
38	TAF115136	103.8846	104.7129	104.2721	2.1104e-01	1.9008e+00
39	TAF120136	109.3166	110.1413	109.7059	1.5344e-01	1.9011e+00
40	TAF125136	104.8366	106.0710	105.5303	3.3503e-01	1.9009e+00
41	TAF130136	105.7697	106.3916	106.1442	1.4486e-01	1.9009e+00
42	TAF120048	106.1321	106.9656	106.5430	2.2378e-01	1.9009e+00
43	TAF130048	107.7332	108.3545	108.0209	1.5117e-01	1.9010e+00
44	TAF120224	103.9311	104.7614	104.2904	2.0744e-01	1.9008e+00
45	TAF130224	104.8070	105.3275	104.9594	1.2641e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0480	1.9867e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3761	1.1363e-01	1.9010e+00
48	TAI130048	114.5017	115.9408	115.0507	3.0683e-01	1.9014e+00
49	TAI130136	115.8299	116.7523	116.3155	2.1119e-01	1.9014e+00
50	TAI130224	119.4140	120.6454	119.9580	3.2328e-01	1.9017e+00
51	TAI130312	113.5257	114.5561	114.0923	2.1549e-01	1.9013e+00
52	TRR130000	116.1639	117.3921	116.7681	2.8718e-01	1.9015e+00
53	TSI000001	63.6930	64.5489	64.0290	1.9217e-01	1.9000e+00
54	TSI000002	83.1947	85.6128	84.4169	5.2104e-01	1.9001e+00
55	TSO000001	62.9346	63.9032	63.4320	2.4395e-01	1.9000e+00
56	TSO000002	67.8937	68.9618	68.3617	2.0450e-01	1.9000e+00
57	TAF020136	88.5588	89.2972	88.9745	1.5575e-01	1.9002e+00
58	TAF120312	104.6079	105.6448	105.1078	3.3028e-01	1.9008e+00
59	TAF130312	107.4915	108.1117	107.7626	1.6166e-01	1.9010e+00
60	EMPTY	0.7568	0.7715	0.7688	2.9938e-03	0.0000e+00
61	EMPTY	0.7764	0.7813	0.7794	2.3941e-03	0.0000e+00
62	EMPTY	0.7861	0.7910	0.7887	2.4642e-03	0.0000e+00
63	EMPTY	0.8008	0.8057	0.8024	2.3365e-03	0.0000e+00
64	EMPTY	0.5322	0.5371	0.5324	9.6655e-04	0.0000e+00
65	EMPTY	0.5566	0.5615	0.5568	9.6655e-04	0.0000e+00
66	EMPTY	0.5713	0.5762	0.5736	2.4642e-03	0.0000e+00
67	EMPTY	0.5908	0.5957	0.5949	1.8082e-03	0.0000e+00
68	EMPTY	0.6006	0.6104	0.6101	1.5314e-03	0.0000e+00
69	EMPTY	0.6250	0.6299	0.6296	1.1714e-03	0.0000e+00
70	EMPTY	0.6396	0.6445	0.6444	6.9053e-04	0.0000e+00
71	EMPTY	0.6641	0.6738	0.6688	1.2041e-03	0.0000e+00
72	EMPTY	0.6787	0.6836	0.6835	6.9053e-04	0.0000e+00
73	EMPTY	0.7031	0.7227	0.7042	3.1644e-03	0.0000e+00
74	EMPTY	0.7178	0.7227	0.7214	2.1635e-03	0.0000e+00
75	EMPTY	0.7373	0.7422	0.7412	1.9730e-03	0.0000e+00
76	EMPTY	0.7520	0.7568	0.7563	1.4797e-03	0.0000e+00
77	EMPTY	0.7715	0.7764	0.7763	6.9053e-04	0.0000e+00
78	EMPTY	0.7959	0.8008	0.7997	2.0432e-03	0.0000e+00
79	EMPTY	0.8154	0.8252	0.8204	1.2041e-03	0.0000e+00
80	PAN020136	56.2376	57.2294	56.5717	2.3166e-01	8.8142e-01
81	PAN050136	109.9064	111.5849	110.5992	4.1383e-01	1.7026e+00
82	PAN070136	91.7702	93.1435	92.5057	2.9073e-01	9.0021e-01
83	PAN080136	50.2074	51.1229	50.5904	1.9829e-01	8.7915e-01
84	PAN090136	39.3913	40.2305	39.7620	1.9680e-01	8.7566e-01
85	PAN100136	37.4766	38.3158	37.8916	1.7720e-01	8.7514e-01
86	PAN105136	18.8483	19.3061	19.0634	1.0419e-01	8.7130e-01
87	PAN110136	22.6851	23.1428	22.8727	1.1244e-01	8.7188e-01
88	PAN115136	23.0342	23.5683	23.3211	1.3039e-01	8.7195e-01
89	PAN120136	26.8211	27.4314	27.1232	1.2800e-01	8.7264e-01
90	PAN125136	27.9948	28.4526	28.2130	9.8708e-02	8.7285e-01
91	PAN130136	18.5682	19.0259	18.8062	1.1702e-01	8.7127e-01
92	PAN120048	36.7225	37.1803	36.9514	1.3700e-01	8.7489e-01
93	PAN130048	40.7646	41.4513	41.1736	1.6512e-01	8.7607e-01
94	PAN120224	48.0594	48.8986	48.4943	1.7659e-01	8.7841e-01
95	PAN130224	46.9958	47.6825	47.3926	1.6529e-01	8.7803e-01
96	PAN120312	38.4597	38.9937	38.8061	1.4394e-01	8.7539e-01
97	PAN130312	40.0603	40.6706	40.3868	1.6958e-01	8.7584e-01
98	PAB000136	40.2281	40.5943	40.3764	8.6539e-02	5.8872e-01
99	PAB100136	25.9943	26.1774	26.0803	5.2836e-02	5.8365e-01
100	PAB125136	21.6402	21.7776	21.7162	4.0954e-02	5.8254e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8366	40.3249	40.1003	1.2172e-01	7.5667e-01
102	PRV000001	19.5965	19.7186	19.5989	1.7263e-02	7.5160e-01
103	PSR000001	18.6925	18.8146	18.7902	4.9324e-02	7.5147e-01
104	PFM000001	103.5391	105.3701	104.2972	4.9667e-01	5.6390e-01
105	PAN000136	527.3881	535.1701	531.4988	1.7090e+00	5.0963e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0146	0.0116	2.3941e-03	0.0000e+00
108	EMPTY	-10.0000	-5.7031	-9.6008	1.0282e+00	0.0000e+00
109	EMPTY	0.0098	0.0195	0.0100	1.3811e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
112	VPW000001	101.4385	102.0245	101.6416	1.4205e-01	1.0139e+00
113	VPW000002	118.4608	118.8514	118.6210	1.0942e-01	1.0783e+00
114	VPW000003	146.4506	146.8412	146.5561	1.1306e-01	1.1955e+00
115	VPW000004	104.2781	104.8640	104.5711	1.3235e-01	1.0246e+00
116	VPW000005	138.8709	139.6522	139.1327	1.2853e-01	1.1632e+00
117	VPW000006	146.8938	147.6750	147.2491	1.5124e-01	1.1986e+00
118	IPW000001	564.9782	574.7399	569.1172	2.2877e+00	9.2641e+00
119	IPW000002	1275.0045	1288.6635	1282.0289	3.4367e+00	1.2969e+01
120	IPW000003	1308.4498	1316.2499	1311.9989	1.7920e+00	1.3154e+01
121	IPW000004	384.5872	387.0286	385.8665	6.5354e-01	3.6459e+00
122	IPW000005	253.5616	254.5381	254.0498	3.1192e-01	2.8334e+00
123	IPW000006	260.7798	262.7329	261.6683	4.2647e-01	2.8763e+00
124	EMPTY	-0.0244	-0.0098	-0.0178	3.2359e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0129	3.0819e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0125	3.2955e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0147	3.0389e-03	0.0000e+00
128	IHT000001	129.1091	131.4528	130.0817	5.6150e-01	4.3014e+00
129	IHT000002	132.5721	134.9158	133.8573	5.4403e-01	4.3130e+00
130	IHT000003	132.6998	135.0436	133.9146	5.0731e-01	4.3132e+00
131	IHT000004	131.1861	133.1393	132.3540	5.1974e-01	4.3083e+00
132	IHT000005	129.6574	131.8059	130.6652	5.1654e-01	4.3032e+00
133	IHT000006	124.3878	126.3409	125.4580	4.8043e-01	4.2877e+00
134	IHT000007	131.1899	133.9243	132.4282	5.0007e-01	4.3086e+00
135	IHT000008	129.9654	132.1139	130.9888	4.5942e-01	4.3042e+00
136	IHT000009	130.3448	132.8839	131.5049	4.9191e-01	4.3057e+00
137	IHT000010	-39.9076	-38.1498	-39.0638	5.1364e-01	4.1186e+00
138	IHT000011	130.5025	132.8463	131.4048	5.2776e-01	4.3054e+00
139	IHT000012	128.1175	130.8519	129.1058	5.1207e-01	4.2985e+00
140	IHT000013	91.4063	94.3359	92.5313	5.1834e-01	4.2031e+00
141	IHT000014	127.9522	130.4913	128.8545	5.2481e-01	4.2977e+00
142	IHT000015	95.2073	98.1370	96.3011	5.5243e-01	4.2116e+00
143	IHT000016	88.9122	91.8419	89.8771	5.5160e-01	4.1974e+00
144	IHT000017	106.4378	109.7581	107.8167	8.3557e-01	4.2394e+00
145	IHT000018	107.1590	111.0652	108.8153	7.7146e-01	4.2419e+00
146	IHT000019	103.8687	106.2124	104.9351	5.0101e-01	4.2322e+00
147	IHT000020	106.7833	109.3224	107.8771	5.2050e-01	4.2395e+00
148	IHT000021	-2.2273	0.8977	-1.0515	6.5494e-01	4.1000e+00
149	IHT000022	92.8598	95.3989	93.9419	4.9001e-01	4.2062e+00
150	IHT000023	104.9504	106.9036	105.8449	5.0546e-01	4.2344e+00
151	IHT000024	70.1585	72.1116	71.0491	4.7541e-01	4.1611e+00
152	IHT000025	104.7439	106.8923	105.7907	5.0341e-01	4.2343e+00
153	IHT000026	105.3260	107.4745	106.5135	5.1726e-01	4.2361e+00
154	IHT000027	90.3846	92.3377	91.2987	4.9981e-01	4.2004e+00
155	IHT000028	91.1396	94.2646	92.8310	5.9259e-01	4.2038e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8152	107.5496	106.3270	5.6471e-01	4.2356e+00
157	IHT000030	107.0125	109.9422	108.6336	5.9615e-01	4.2415e+00
158	IHT000031	105.6415	108.5712	107.1572	6.2335e-01	4.2377e+00
159	IHT000032	107.1326	109.8670	108.4608	5.7045e-01	4.2410e+00
160	IHT000033	106.9599	109.8896	108.4013	5.9174e-01	4.2409e+00
161	IHT000034	93.9378	95.8909	95.0472	4.8398e-01	4.2087e+00
162	IHT000035	124.1136	126.4573	125.3285	4.9014e-01	4.2873e+00
163	IHT000036	92.4091	94.5575	93.5966	4.5135e-01	4.2055e+00

Velocity 1 = 26.0208 (ft/sec) (+/- 1.6887 %)
 Velocity 2 = 13.4148 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 19.2291 (psi)
 Tsat in = 267.9191 (deg F) Tsat out = 232.0555 (deg F)
 Phi inner = 100.8875 (kBtu/hr-ft2) (+/- 1.4121 %)
 Phi outer = 100.7455 (kBtu/hr-ft2) (+/- 1.5426 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	83.1877	83.6114	83.4081	1.6553e-01	1.9001e+00
1	TRF000002	83.3145	83.7360	83.6095	1.1264e-01	1.9001e+00
2	TFM000001	86.8101	87.5457	87.1255	1.8231e-01	1.9002e+00
3	TIN000001	86.1548	86.5768	86.3868	1.1268e-01	1.9002e+00
4	TRV000001	86.8099	87.5435	87.1662	2.0843e-01	1.9002e+00
5	TSR000001	103.4683	104.3992	104.0390	2.0796e-01	1.9008e+00
6	TAO020136	68.3819	70.0910	69.1685	4.3842e-01	1.9000e+00
7	TAO050136	106.5658	107.2860	106.9154	1.7560e-01	1.9009e+00
8	TAO070136	109.4638	110.5001	110.0606	2.1091e-01	1.9011e+00
9	TAO080136	91.3726	92.5175	91.8308	2.8351e-01	1.9003e+00
10	TAO090136	115.2641	116.0845	115.7526	1.7409e-01	1.9014e+00
11	TAO100136	114.0440	114.6611	114.2994	1.6258e-01	1.9013e+00
12	TAO105136	114.5283	115.3521	114.8786	2.0788e-01	1.9014e+00
13	TAO110136	116.7604	117.3725	117.1145	1.4468e-01	1.9015e+00
14	TAO115136	113.3880	114.5203	113.9852	2.4600e-01	1.9013e+00
15	TAO120136	119.1398	119.8576	119.4885	1.8520e-01	1.9016e+00
16	TAO125136	82.1477	83.2001	82.6324	2.3297e-01	1.9001e+00
17	TAO130136	115.7149	116.3252	116.0372	1.2277e-01	1.9014e+00
18	TAO120048	86.3050	87.3562	86.8014	2.7510e-01	1.9002e+00
19	TAO130048	118.6235	119.1359	118.8369	1.3213e-01	1.9016e+00
20	TAO120224	118.2174	118.9347	118.6024	1.7018e-01	1.9016e+00
21	TAO130224	113.1142	114.1349	113.6416	2.1973e-01	1.9013e+00
22	TAO120312	117.0268	117.6434	117.4131	1.7306e-01	1.9015e+00
23	TAO130312	118.0846	118.6987	118.4412	1.4958e-01	1.9016e+00
24	TRT020000	106.4260	107.3586	106.8903	1.8524e-01	1.9009e+00
25	TRT070000	113.2544	114.0828	113.6485	1.6854e-01	1.9013e+00
26	TRT100000	119.2877	120.0033	119.5904	1.7878e-01	1.9017e+00
27	TRT120000	96.9943	97.7241	97.3322	1.3409e-01	1.9005e+00
28	TRT125000	82.9483	83.6817	83.3368	1.6004e-01	1.9001e+00
29	TRT130000	119.9639	120.4760	120.1853	1.3454e-01	1.9017e+00
30	EMPTY	39.6057	40.0646	39.8489	1.8201e-01	1.9011e+00
31	TAF050136	93.0714	93.9053	93.5212	1.6792e-01	1.9004e+00
32	TAF070136	96.8148	97.7481	97.1632	2.0303e-01	1.9005e+00
33	TAF080136	111.5728	112.2894	111.9901	1.5484e-01	1.9012e+00
34	TAF090136	83.0205	84.0734	83.5685	2.5608e-01	1.9001e+00
35	TAF100136	100.5135	101.2421	100.9338	1.5736e-01	1.9006e+00
36	TAF105136	101.2614	102.1897	101.7688	2.3811e-01	1.9007e+00
37	TAF110136	102.1460	102.6652	102.4325	1.3020e-01	1.9007e+00
38	TAF115136	103.4711	104.2996	103.8815	1.9503e-01	1.9008e+00
39	TAF120136	109.1113	109.6273	109.3057	1.3920e-01	1.9010e+00
40	TAF125136	104.4258	105.7641	104.9986	2.8055e-01	1.9008e+00
41	TAF130136	105.3569	105.9778	105.6717	1.4480e-01	1.9009e+00
42	TAF120048	105.7169	106.4447	106.1121	1.8324e-01	1.9009e+00
43	TAF130048	107.3204	107.8379	107.5482	1.4776e-01	1.9009e+00
44	TAF120224	103.5176	104.1394	103.8331	1.5660e-01	1.9008e+00
45	TAF130224	104.1828	104.7030	104.5117	1.2135e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1032	2.0883e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3715	1.1818e-01	1.9010e+00
48	TAI130048	114.0908	115.3243	114.6667	3.3150e-01	1.9013e+00
49	TAI130136	115.5226	116.3431	115.8632	1.9471e-01	1.9014e+00
50	TAI130224	119.0035	120.1324	119.5743	2.8288e-01	1.9017e+00
51	TAI130312	113.3198	114.0412	113.7114	1.7662e-01	1.9013e+00
52	TRR130000	116.6760	117.9032	117.3504	3.3236e-01	1.9015e+00
53	TSI000001	63.7995	64.5489	64.1935	1.8149e-01	1.9000e+00
54	TSI000002	82.3532	86.1373	84.4649	9.5936e-01	1.9001e+00
55	TSO000001	62.6108	63.9032	63.4772	2.5179e-01	1.9000e+00
56	TSO000002	67.8937	69.0679	68.4108	2.2966e-01	1.9000e+00
57	TAF020136	88.1363	88.7692	88.4613	1.5933e-01	1.9002e+00
58	TAF120312	104.0902	105.1270	104.6540	2.5498e-01	1.9008e+00
59	TAF130312	106.8725	107.5964	107.2778	1.6288e-01	1.9009e+00
60	EMPTY	0.7568	0.7617	0.7570	9.6655e-04	0.0000e+00
61	EMPTY	0.7666	0.7715	0.7671	1.4797e-03	0.0000e+00
62	EMPTY	0.7764	0.7764	0.7764	0.0000e+00	0.0000e+00
63	EMPTY	0.7861	0.7910	0.7906	1.3381e-03	0.0000e+00
64	EMPTY	0.5225	0.5273	0.5272	6.9053e-04	0.0000e+00
65	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
66	EMPTY	0.5615	0.5713	0.5674	2.2058e-03	0.0000e+00
67	EMPTY	0.5859	0.5957	0.5900	2.0598e-03	0.0000e+00
68	EMPTY	0.6006	0.6055	0.6051	1.3381e-03	0.0000e+00
69	EMPTY	0.6201	0.6250	0.6226	2.4662e-03	0.0000e+00
70	EMPTY	0.6396	0.6445	0.6397	6.9053e-04	0.0000e+00
71	EMPTY	0.6592	0.6641	0.6635	1.6028e-03	0.0000e+00
72	EMPTY	0.6738	0.6836	0.6787	9.8648e-04	0.0000e+00
73	EMPTY	0.6934	0.7031	0.6984	1.3811e-03	0.0000e+00
74	EMPTY	0.7129	0.7178	0.7172	1.6028e-03	0.0000e+00
75	EMPTY	0.7275	0.7422	0.7364	2.3531e-03	0.0000e+00
76	EMPTY	0.7471	0.7520	0.7516	1.3381e-03	0.0000e+00
77	EMPTY	0.7715	0.7715	0.7715	0.0000e+00	0.0000e+00
78	EMPTY	0.7910	0.7959	0.7957	9.6655e-04	0.0000e+00
79	EMPTY	0.8105	0.8203	0.8156	1.3811e-03	0.0000e+00
80	PAN020136	56.0087	57.3820	56.7533	2.8319e-01	8.8149e-01
81	PAN050136	109.4486	111.4323	110.6266	4.2720e-01	1.7026e+00
82	PAN070136	91.9228	93.2198	92.6369	3.1391e-01	9.0030e-01
83	PAN080136	50.4363	51.3518	50.7491	2.0230e-01	8.7920e-01
84	PAN090136	39.3913	40.1542	39.8383	1.6956e-01	8.7568e-01
85	PAN100136	37.5529	38.5447	37.9969	1.8087e-01	8.7517e-01
86	PAN105136	18.8483	19.3824	19.1016	1.0728e-01	8.7131e-01
87	PAN110136	22.6088	23.2191	22.9185	1.4656e-01	8.7188e-01
88	PAN115136	22.9579	23.5683	23.3302	1.2583e-01	8.7195e-01
89	PAN120136	26.8974	27.4314	27.1369	1.3614e-01	8.7264e-01
90	PAN125136	27.9948	28.6051	28.2435	1.1201e-01	8.7286e-01
91	PAN130136	18.5682	19.1785	18.8779	1.1265e-01	8.7128e-01
92	PAN120048	36.7225	37.4854	37.0826	1.7028e-01	8.7493e-01
93	PAN130048	40.7646	41.6039	41.2148	1.9754e-01	8.7608e-01
94	PAN120224	47.9831	48.9749	48.5477	2.1469e-01	8.7843e-01
95	PAN130224	46.9958	47.9113	47.5436	2.0431e-01	8.7808e-01
96	PAN120312	38.3834	39.1463	38.8106	1.7164e-01	8.7539e-01
97	PAN130312	39.9840	40.8995	40.3807	2.1524e-01	8.7584e-01
98	PAB000136	40.1823	40.5485	40.3709	1.0200e-01	5.8872e-01
99	PAB100136	25.9485	26.1774	26.0584	5.5489e-02	5.8365e-01
100	PAB125136	21.5945	21.7776	21.6732	5.0688e-02	5.8253e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.9587	40.5690	40.2370	1.3960e-01	7.5672e-01
102	PRV0000001	19.5965	19.7186	19.6575	6.1655e-02	7.5161e-01
103	PSR0000001	18.6925	18.8146	18.7267	5.5366e-02	7.5146e-01
104	PFM0000001	103.2644	105.0955	104.4345	4.2392e-01	5.6406e-01
105	PAN000136	527.8459	536.5434	532.3684	1.9347e+00	5.0968e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0146	0.0104	1.6028e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0049	0.0146	0.0090	2.0598e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0044	1.4797e-03	0.0000e+00
112	VPW0000001	101.2432	101.8292	101.6260	1.7629e-01	1.0139e+00
113	VPW0000002	118.4608	118.8514	118.6483	7.8523e-02	1.0784e+00
114	VPW0000003	146.4506	146.8412	146.7124	1.0885e-01	1.1962e+00
115	VPW0000004	104.2781	104.8640	104.5906	1.3669e-01	1.0247e+00
116	VPW0000005	139.0663	139.4569	139.1991	1.0763e-01	1.1635e+00
117	VPW0000006	147.0891	147.6750	147.4640	1.5201e-01	1.1996e+00
118	IPW0000001	547.4072	553.2642	549.8670	1.1707e+00	9.1913e+00
119	IPW0000002	1304.2736	1312.0786	1306.9279	1.5650e+00	1.3123e+01
120	IPW0000003	1327.9498	1333.7999	1331.1093	1.1066e+00	1.3274e+01
121	IPW0000004	383.6106	384.5872	384.2747	2.7480e-01	3.6354e+00
122	IPW0000005	254.5381	256.0028	255.2119	3.2551e-01	2.8399e+00
123	IPW0000006	263.7095	265.1743	264.3831	4.3995e-01	2.8918e+00
124	EMPTY	-0.0293	-0.0146	-0.0205	3.1195e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0136	2.8403e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0167	3.1335e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0159	2.5743e-03	0.0000e+00
128	IHT0000001	128.9137	131.6481	130.1012	6.5058e-01	4.3015e+00
129	IHT0000002	132.7674	135.3065	134.0018	5.9770e-01	4.3134e+00
130	IHT0000003	132.6998	135.0436	134.0435	5.9009e-01	4.3136e+00
131	IHT0000004	130.9908	133.7252	132.2720	6.0895e-01	4.3081e+00
132	IHT0000005	129.2668	131.6106	130.6261	5.8122e-01	4.3031e+00
133	IHT0000006	123.9971	126.3409	125.4463	5.9069e-01	4.2876e+00
134	IHT0000007	130.9946	133.9243	132.4399	5.8660e-01	4.3086e+00
135	IHT0000008	129.5748	132.1139	130.9380	5.7248e-01	4.3040e+00
136	IHT0000009	129.9542	132.6885	131.4893	6.3382e-01	4.3057e+00
137	IHT0000010	-40.1029	-37.7592	-38.9545	5.3908e-01	4.1185e+00
138	IHT0000011	130.3072	132.4557	131.6001	5.2629e-01	4.3060e+00
139	IHT0000012	127.9222	130.2659	129.2503	4.8327e-01	4.2989e+00
140	IHT0000013	91.4063	93.3594	92.5430	4.7300e-01	4.2031e+00
141	IHT0000014	127.9522	129.7101	128.8936	4.7791e-01	4.2978e+00
142	IHT0000015	95.2073	96.9651	96.2425	4.4686e-01	4.2114e+00
143	IHT0000016	88.7169	91.0607	89.8029	5.3403e-01	4.1972e+00
144	IHT0000017	105.4613	109.3675	107.4105	8.3937e-01	4.2384e+00
145	IHT0000018	107.1590	110.0886	108.7449	6.1718e-01	4.2418e+00
146	IHT0000019	103.8687	106.6031	104.9116	5.4621e-01	4.2321e+00
147	IHT0000020	106.7833	109.5177	107.7794	5.5278e-01	4.2393e+00
148	IHT0000021	-2.8132	0.8977	-1.2742	7.3147e-01	4.1000e+00
149	IHT0000022	92.4692	95.5942	93.8208	6.2744e-01	4.2060e+00
150	IHT0000023	104.5598	107.2942	105.7824	5.3059e-01	4.2343e+00
151	IHT0000024	69.7679	72.5023	71.0726	5.4454e-01	4.1611e+00
152	IHT0000025	104.5485	106.8923	105.8024	5.5955e-01	4.2343e+00
153	IHT0000026	105.3260	107.8651	106.5487	6.1233e-01	4.2362e+00
154	IHT0000027	89.9940	92.3377	91.2127	5.8469e-01	4.2002e+00
155	IHT0000028	91.5302	94.2646	92.7568	6.7432e-01	4.2036e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0105	108.1355	106.4051	6.9811e-01	4.2358e+00
157	IHT000030	107.2078	110.5281	108.6922	7.0144e-01	4.2416e+00
158	IHT000031	105.8368	108.7665	107.2119	6.7192e-01	4.2379e+00
159	IHT000032	107.3280	110.0623	108.4881	6.4284e-01	4.2411e+00
160	IHT000033	107.1552	109.8896	108.4287	6.6526e-01	4.2410e+00
161	IHT000034	93.9378	96.0862	95.0315	5.0532e-01	4.2087e+00
162	IHT000035	124.3089	126.6527	125.3636	5.4534e-01	4.2874e+00
163	IHT000036	92.6044	94.9482	93.6279	5.0618e-01	4.2055e+00

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Velocity 1 = 0.015900 (ft/sec)

Velocity 2 = 0.000600 (ft/sec)

Pressure Drop = 0.031399 (psi)

Tsat in = 0.008087 (deg F) Tsat out = 0.108398 (deg F)

Phi inner = 1.492294 (kBtu/hr-ft2) Phi outer = 0.366798 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0042	0.0050
1	TRF000002	0.0084	0.0100
2	TFM000001	0.5178	0.5908
3	TIN000001	0.5159	0.5937
4	TRV000001	0.5960	0.6791
5	TSR000001	0.1052	0.1012
6	TAO020136	0.3483	0.5061
7	TAO050136	0.4416	0.4113
8	TAO070136	0.0767	0.0696
9	TAO080136	0.8747	0.9435
10	TAO090136	0.4731	0.4071
11	TAO100136	0.4821	0.4200
12	TAO105136	0.5286	0.4580
13	TAO110136	0.4571	0.3888
14	TAO115136	0.4297	0.3756
15	TAO120136	0.4279	0.3568
16	TAO125136	0.6537	0.7849
17	TAO130136	0.4388	0.3767
18	TAO120048	0.0609	0.0701
19	TAO130048	0.4874	0.4085
20	TAO120224	0.3909	0.3285
21	TAO130224	0.4784	0.4192
22	TAO120312	0.4001	0.3396
23	TAO130312	0.3696	0.3111
24	TRT020000	0.4333	0.4037
25	TRT070000	0.3831	0.3360
26	TRT100000	0.3570	0.2976
27	TRT120000	0.1435	0.1472
28	TRT125000	0.0147	0.0176
29	TRT130000	0.4385	0.3635
30	EMPTY	0.0780	0.1961
31	TAF050136	0.4224	0.4496
32	TAF070136	0.4577	0.4689
33	TAF080136	0.3658	0.3256
34	TAF090136	0.4481	0.5334
35	TAF100136	0.4431	0.4371
36	TAF105136	0.4384	0.4289
37	TAF110136	0.4444	0.4320
38	TAF115136	0.3906	0.3746
39	TAF120136	0.4002	0.3648
40	TAF125136	0.5317	0.5038
41	TAF130136	0.4725	0.4452
42	TAF120048	0.4309	0.4044
43	TAF130048	0.4727	0.4376
44	TAF120224	0.4573	0.4385
45	TAF130224	0.4477	0.4265

#	Name	Abs Diff	%Diff
46	EMPTY	0.0552	0.1451
47	EMPTY	0.0046	0.0117
48	TAI130048	0.3840	0.3338
49	TAI130136	0.4523	0.3889
50	TAI130224	0.3837	0.3199
51	TAI130312	0.3809	0.3339
52	TRR130000	0.5823	0.4987
53	TSI000001	0.1645	0.2569
54	TSI000002	0.0480	0.0569
55	TSO000001	0.0452	0.0713
56	TSO000002	0.0491	0.0718
57	TAF020136	0.5132	0.5768
58	TAF120312	0.4538	0.4318
59	TAF130312	0.4848	0.4499
60	EMPTY	0.0118	1.5349
61	EMPTY	0.0123	1.5781
62	EMPTY	0.0123	1.5595
63	EMPTY	0.0118	1.4706
64	EMPTY	0.0052	0.9767
65	EMPTY	0.0050	0.8980
66	EMPTY	0.0062	1.0809
67	EMPTY	0.0049	0.8237
68	EMPTY	0.0050	0.8195
69	EMPTY	0.0070	1.1118
70	EMPTY	0.0047	0.7294
71	EMPTY	0.0053	0.7925
72	EMPTY	0.0048	0.7023
73	EMPTY	0.0058	0.8236
74	EMPTY	0.0042	0.5822
75	EMPTY	0.0048	0.6476
76	EMPTY	0.0047	0.6214
77	EMPTY	0.0048	0.6183
78	EMPTY	0.0040	0.5002
79	EMPTY	0.0048	0.5851
80	PAN020136	0.1816	0.3210
81	PAN050136	0.0274	0.0248
82	PAN070136	0.1312	0.1418
83	PAN080136	0.1587	0.3137
84	PAN090136	0.0763	0.1919
85	PAN100136	0.1053	0.2779
86	PAN105136	0.0382	0.2004
87	PAN110136	0.0458	0.2002
88	PAN115136	0.0091	0.0390
89	PAN120136	0.0137	0.0505
90	PAN125136	0.0305	0.1081
91	PAN130136	0.0717	0.3813
92	PAN120048	0.1312	0.3551
93	PAN130048	0.0412	0.1001
94	PAN120224	0.0534	0.1101
95	PAN130224	0.1510	0.3186
96	PAN120312	0.0045	0.0116
97	PAN130312	0.0061	0.0151
98	PAB000136	0.0055	0.0136
99	PAB100136	0.0219	0.0840
100	PAB125136	0.0430	0.1980

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1367	0.3409
102	PRV000001	0.0586	0.2990
103	PSR000001	0.0635	0.3379
104	PFM000001	0.1373	0.1316
105	PAN000136	0.8696	0.1636
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0012	10.3448
108	EMPTY	0.3992	4.1580
109	EMPTY	0.0010	10.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0005	10.2041
112	VPW000001	0.0156	0.0154
113	VPW000002	0.0273	0.0230
114	VPW000003	0.1563	0.1066
115	VPW000004	0.0195	0.0186
116	VPW000005	0.0664	0.0477
117	VPW000006	0.2149	0.1459
118	IPW000001	19.2502	3.3825
119	IPW000002	24.8989	1.9422
120	IPW000003	19.1104	1.4566
121	IPW000004	1.5918	0.4125
122	IPW000005	1.1621	0.4574
123	IPW000006	2.7148	1.0375
124	EMPTY	0.0027	15.1685
125	EMPTY	0.0007	5.4264
126	EMPTY	0.0042	33.6000
127	EMPTY	0.0012	8.1633
128	IHT000001	0.0195	0.0150
129	IHT000002	0.1445	0.1080
130	IHT000003	0.1289	0.0963
131	IHT000004	0.0820	0.0620
132	IHT000005	0.0391	0.0299
133	IHT000006	0.0117	0.0093
134	IHT000007	0.0117	0.0088
135	IHT000008	0.0508	0.0388
136	IHT000009	0.0156	0.0119
137	IHT000010	0.1093	0.2798
138	IHT000011	0.1953	0.1486
139	IHT000012	0.1445	0.1119
140	IHT000013	0.0117	0.0126
141	IHT000014	0.0391	0.0303
142	IHT000015	0.0586	0.0609
143	IHT000016	0.0742	0.0826
144	IHT000017	0.4062	0.3768
145	IHT000018	0.0704	0.0647
146	IHT000019	0.0235	0.0224
147	IHT000020	0.0977	0.0906
148	IHT000021	0.2227	21.1793
149	IHT000022	0.1211	0.1289
150	IHT000023	0.0625	0.0590
151	IHT000024	0.0235	0.0331
152	IHT000025	0.0117	0.0111
153	IHT000026	0.0352	0.0330
154	IHT000027	0.0860	0.0942
155	IHT000028	0.0742	0.0799

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#	Name	Abs Dlf	%Dlf
156	IHT000029	0.0781	0.0734
157	IHT000030	0.0586	0.0539
158	IHT000031	0.0547	0.0510
159	IHT000032	0.0273	0.0252
160	IHT000033	0.0274	0.0253
161	IHT000034	0.0157	0.0165
162	IHT000035	0.0351	0.0280
163	IHT000036	0.0313	0.0334

Velocity 1 = 14.0221 (ft/sec) (+/- 1.8662 %)
Velocity 2 = 13.4157 (ft/sec) (+/- 1.7033 %)
Pressure drop = 2.2906 (psi)
Tsat in = 267.6289 (deg F) Tsat out = 264.0803 (deg F)
Phi inner = 100.9988 (kBtu/hr-ft2) (+/- 1.4118 %)
Phi outer = 101.2957 (kBtu/hr-ft2) (+/- 1.5407 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	83.1877	83.6114	83.4165	1.7033e-01	1.9001e+00
1	TRF000002	83.5252	83.7360	83.6264	1.0635e-01	1.9001e+00
2	TFM000001	87.4391	88.1744	87.8509	1.7455e-01	1.9002e+00
3	TIN000001	86.8917	87.3134	87.1069	1.1842e-01	1.9002e+00
4	TRV000001	87.5414	88.4845	88.0152	2.2907e-01	1.9002e+00
5	TSR000001	107.2816	110.5710	109.1280	8.6679e-01	1.9010e+00
6	TAO020136	69.0231	70.1981	69.5658	3.2500e-01	1.9000e+00
7	TAO050136	122.2913	123.1049	122.7057	1.8950e-01	1.9019e+00
8	TAO070136	122.6638	123.5865	123.1847	2.1610e-01	1.9019e+00
9	TAO080136	97.2840	98.2182	97.6872	1.9375e-01	1.9005e+00
10	TAO090136	136.7039	137.4105	137.0512	2.0108e-01	1.9030e+00
11	TAO100136	135.0114	135.7197	135.3677	1.6643e-01	1.9029e+00
12	TAO105136	136.1614	137.0727	136.6313	2.0824e-01	1.9030e+00
13	TAO110136	139.9288	140.5308	140.2534	1.5779e-01	1.9033e+00
14	TAO115136	135.8262	136.6360	136.1827	2.0048e-01	1.9029e+00
15	TAO120136	143.2893	143.9929	143.6185	1.7135e-01	1.9036e+00
16	TAO125136	93.7674	94.6018	94.1593	1.9718e-01	1.9004e+00
17	TAO130136	138.2755	138.8759	138.5989	1.3522e-01	1.9032e+00
18	TAO120048	89.4521	90.8147	90.0436	3.1595e-01	1.9003e+00
19	TAO130048	143.4796	144.0820	143.7571	1.4855e-01	1.9037e+00
20	TAO120224	142.1557	142.9609	142.5907	1.5409e-01	1.9035e+00
21	TAO130224	134.7274	135.4326	135.0381	1.7313e-01	1.9028e+00
22	TAO120312	141.3258	142.1325	141.6970	1.6597e-01	1.9035e+00
23	TAO130312	141.8754	142.5789	142.2574	1.6258e-01	1.9035e+00
24	TRT020000	120.6546	121.4752	121.0528	1.9508e-01	1.9018e+00
25	TRT070000	133.8089	134.5223	134.1557	1.5672e-01	1.9028e+00
26	TRT100000	142.4500	143.1538	142.7919	1.6861e-01	1.9036e+00
27	TRT120000	110.7593	111.5834	111.1587	1.7257e-01	1.9011e+00
28	TRT125000	85.0382	85.7729	85.3493	1.7072e-01	1.9002e+00
29	TRT130000	144.4232	145.0256	144.7286	1.3612e-01	1.9038e+00
30	EMPTY	39.1464	40.2940	39.7571	2.6071e-01	1.9011e+00
31	TAF050136	99.4037	100.3379	99.9061	1.8791e-01	1.9006e+00
32	TAF070136	105.6934	106.7236	106.1793	2.0408e-01	1.9009e+00
33	TAF080136	130.8468	131.5527	131.2298	1.7333e-01	1.9025e+00
34	TAF090136	84.3882	85.5453	85.0195	2.7459e-01	1.9002e+00
35	TAF100136	113.3523	114.1770	113.7319	1.6721e-01	1.9013e+00
36	TAF105136	114.5767	115.5975	115.2007	2.3735e-01	1.9014e+00
37	TAF110136	116.3338	116.8472	116.5722	1.3346e-01	1.9015e+00
38	TAF115136	118.1714	118.9899	118.6253	1.8271e-01	1.9016e+00
39	TAF120136	128.2634	128.7717	128.5439	1.2895e-01	1.9023e+00
40	TAF125136	120.6543	121.6703	121.1212	2.4611e-01	1.9018e+00
41	TAF130136	121.9711	122.6862	122.3349	1.2255e-01	1.9018e+00
42	TAF120048	122.3717	123.3984	122.9920	2.1857e-01	1.9019e+00
43	TAF130048	125.3626	126.0765	125.7380	1.4785e-01	1.9021e+00
44	TAF120224	118.4384	119.2575	118.8028	2.0067e-01	1.9016e+00
45	TAF130224	120.3280	120.8416	120.5828	1.2500e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0710	1.9947e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.4220	1.1362e-01	1.9010e+00
48	TAI130048	138.3151	139.6268	138.9450	2.7672e-01	1.9032e+00
49	TAI130136	138.9602	139.8652	139.4140	2.0664e-01	1.9032e+00
50	TAI130224	143.2066	144.2140	143.6944	2.7484e-01	1.9037e+00
51	TAI130312	135.0682	136.1815	135.6958	2.1262e-01	1.9029e+00
52	TRR130000	120.1455	121.2672	120.7088	2.4830e-01	1.9017e+00
53	TSI000001	62.9447	63.6946	63.2663	1.9219e-01	1.9000e+00
54	TSI000002	83.4066	85.4029	84.5199	5.0815e-01	1.9001e+00
55	TSO000001	61.9646	62.8262	62.4386	2.3745e-01	1.9000e+00
56	TSO000002	68.6407	69.2817	68.9911	1.6987e-01	1.9000e+00
57	TAF020136	90.8802	91.6170	91.2592	1.7283e-01	1.9003e+00
58	TAF120312	120.2629	121.3895	120.9430	2.8184e-01	1.9017e+00
59	TAF130312	125.6188	126.3318	125.9612	1.8497e-01	1.9021e+00
60	EMPTY	1.1963	1.2012	1.1980	2.3675e-03	0.0000e+00
61	EMPTY	1.1963	1.2109	1.2056	2.2603e-03	0.0000e+00
62	EMPTY	1.2061	1.2207	1.2106	2.2945e-03	0.0000e+00
63	EMPTY	1.2158	1.2207	1.2201	1.6028e-03	0.0000e+00
64	EMPTY	0.7080	0.7129	0.7126	1.1714e-03	0.0000e+00
65	EMPTY	0.7324	0.7373	0.7357	2.3008e-03	0.0000e+00
66	EMPTY	0.7471	0.7568	0.7519	1.2041e-03	0.0000e+00
67	EMPTY	0.7666	0.7764	0.7716	1.2041e-03	0.0000e+00
68	EMPTY	0.7813	0.7861	0.7856	1.4797e-03	0.0000e+00
69	EMPTY	0.8008	0.8057	0.8029	2.4484e-03	0.0000e+00
70	EMPTY	0.8057	0.8203	0.8170	2.8659e-03	0.0000e+00
71	EMPTY	0.8398	0.8447	0.8400	9.6655e-04	0.0000e+00
72	EMPTY	0.8496	0.8594	0.8545	9.8648e-04	0.0000e+00
73	EMPTY	0.8740	0.8740	0.8740	0.0000e+00	0.0000e+00
74	EMPTY	0.8887	0.8936	0.8901	2.2603e-03	0.0000e+00
75	EMPTY	0.9033	0.9131	0.9080	1.3811e-03	0.0000e+00
76	EMPTY	0.9180	0.9277	0.9228	1.2041e-03	0.0000e+00
77	EMPTY	0.9424	0.9424	0.9424	0.0000e+00	0.0000e+00
78	EMPTY	0.9619	0.9717	0.9652	2.5034e-03	0.0000e+00
79	EMPTY	0.9814	0.9912	0.9864	1.2041e-03	0.0000e+00
80	PAN020136	5.1206	5.7310	5.3709	1.2141e-01	8.7010e-01
81	PAN050136	8.8932	9.9613	9.5097	2.6690e-01	1.6802e+00
82	PAN070136	12.5008	13.1874	12.8212	1.6601e-01	8.7059e-01
83	PAN080136	7.1776	7.7117	7.4920	1.0413e-01	8.7020e-01
84	PAN090136	3.6857	4.2197	3.9558	1.1760e-01	8.7006e-01
85	PAN100136	3.0680	3.5258	3.3351	1.0137e-01	8.7004e-01
86	PAN105136	1.6059	1.9873	1.8195	9.1189e-02	8.7001e-01
87	PAN110136	2.4672	2.8486	2.6396	8.4157e-02	8.7003e-01
88	PAN115136	3.1215	3.5030	3.3427	1.0369e-01	8.7004e-01
89	PAN120136	3.7803	4.2381	3.9558	9.7789e-02	8.7006e-01
90	PAN125136	4.4963	4.9540	4.7465	1.1012e-01	8.7008e-01
91	PAN130136	2.0887	2.4702	2.2901	8.1211e-02	8.7002e-01
92	PAN120048	3.0006	3.5346	3.2569	1.1815e-01	8.7004e-01
93	PAN130048	4.0672	4.6776	4.3968	1.0947e-01	8.7007e-01
94	PAN120224	6.7844	7.2422	7.0072	1.2023e-01	8.7018e-01
95	PAN130224	6.6363	7.0941	6.8194	1.1327e-01	8.7017e-01
96	PAN120312	3.5170	4.0511	3.8283	1.1621e-01	8.7005e-01
97	PAN130312	3.5918	3.9733	3.8252	1.0156e-01	8.7005e-01
98	PAB000136	40.0450	40.2739	40.1750	4.6573e-02	5.8863e-01
99	PAB100136	38.3081	38.4912	38.4061	4.3388e-02	5.8789e-01
100	PAB125136	37.7993	37.9366	37.8469	4.0270e-02	5.8767e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9587	40.2028	40.1174	8.2719e-02	7.5668e-01
102	PRV000001	19.8406	19.9627	19.9505	3.6993e-02	7.5166e-01
103	PSR000001	37.0031	37.3693	37.1129	8.2719e-02	7.5572e-01
104	PFM000001	29.7476	30.7547	30.1357	2.1456e-01	5.0564e-01
105	PAN000136	60.4692	65.9623	63.4172	1.3117e+00	4.9226e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0077	2.4344e-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	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0006	1.6028e-03	0.0000e+00
112	VPW000001	101.6339	102.2198	101.9307	1.1995e-01	1.0150e+00
113	VPW000002	118.2655	119.0467	118.7382	1.3141e-01	1.0787e+00
114	VPW000003	146.6459	147.0365	146.7905	1.0297e-01	1.1966e+00
115	VPW000004	104.2781	105.0593	104.7938	1.2944e-01	1.0254e+00
116	VPW000005	139.2616	139.6522	139.4022	1.0470e-01	1.1643e+00
117	VPW000006	147.2844	147.8703	147.4757	1.4493e-01	1.1996e+00
118	IPW000001	547.4072	555.2165	550.6480	1.4006e+00	9.1942e+00
119	IPW000002	1314.0299	1319.8837	1316.4884	1.1017e+00	1.3182e+01
120	IPW000003	1329.8999	1333.7999	1332.4745	9.9979e-01	1.3282e+01
121	IPW000004	383.1223	384.5872	383.8450	4.8568e-01	3.6325e+00
122	IPW000005	254.5381	255.5145	255.0752	3.1579e-01	2.8391e+00
123	IPW000006	263.2212	264.6860	264.0511	3.3087e-01	2.8899e+00
124	EMPTY	-0.0342	-0.0098	-0.0177	4.2875e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0118	3.1335e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0126	3.2851e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	4.0673e-03	0.0000e+00
128	IHT000001	128.7184	131.2575	129.9449	6.2644e-01	4.3010e+00
129	IHT000002	132.5721	135.3065	133.8300	6.1277e-01	4.3129e+00
130	IHT000003	132.8951	135.4342	134.0357	5.9498e-01	4.3135e+00
131	IHT000004	131.1861	133.5299	132.3423	5.9692e-01	4.3083e+00
132	IHT000005	129.4621	132.3918	130.7277	5.6667e-01	4.3034e+00
133	IHT000006	124.5831	126.9268	125.5088	5.5777e-01	4.2878e+00
134	IHT000007	131.1899	133.9243	132.4868	5.4784e-01	4.3087e+00
135	IHT000008	129.7701	132.1139	131.0201	5.4391e-01	4.3043e+00
136	IHT000009	130.5401	132.4932	131.4776	5.6082e-01	4.3057e+00
137	IHT000010	-40.1029	-37.9545	-39.0092	5.9843e-01	4.1185e+00
138	IHT000011	130.3072	132.4557	131.4790	5.7589e-01	4.3057e+00
139	IHT000012	127.9222	130.2659	129.1566	5.1966e-01	4.2986e+00
140	IHT000013	91.6016	93.7500	92.6953	5.1750e-01	4.2035e+00
141	IHT000014	127.7569	130.1007	128.9639	5.3188e-01	4.2980e+00
142	IHT000015	95.2073	97.3558	96.3753	4.8245e-01	4.2117e+00
143	IHT000016	88.9122	90.6701	89.9709	4.5006e-01	4.1976e+00
144	IHT000017	107.0238	109.3675	108.1410	5.8399e-01	4.2402e+00
145	IHT000018	107.9402	109.6980	108.8426	4.6503e-01	4.2420e+00
146	IHT000019	104.0640	105.8218	104.9155	4.5807e-01	4.2321e+00
147	IHT000020	106.9787	108.7365	107.7755	4.2286e-01	4.2393e+00
148	IHT000021	-2.2273	-0.0789	-1.1882	5.1966e-01	4.1000e+00
149	IHT000022	93.0551	94.8130	93.9067	4.0194e-01	4.2062e+00
150	IHT000023	104.9504	106.5129	105.6691	3.5610e-01	4.2340e+00
151	IHT000024	70.3538	71.7210	70.9280	3.4266e-01	4.1609e+00
152	IHT000025	105.1345	106.5017	105.7985	3.8257e-01	4.2343e+00
153	IHT000026	105.9120	107.4745	106.5331	4.1702e-01	4.2361e+00
154	IHT000027	90.7752	92.3377	91.4197	4.4512e-01	4.2007e+00
155	IHT000028	92.1161	94.0693	92.9169	4.9324e-01	4.2040e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4012	107.5496	106.3934	4.9417e-01	4.2358e+00
157	IHT000030	107.5984	110.1375	108.6610	4.8993e-01	4.2415e+00
158	IHT000031	106.0322	108.7665	107.1377	5.1085e-01	4.2377e+00
159	IHT000032	107.5233	109.8670	108.4725	5.0225e-01	4.2411e+00
160	IHT000033	107.5458	109.6943	108.4209	4.8687e-01	4.2409e+00
161	IHT000034	94.3284	96.0862	95.1253	4.0786e-01	4.2089e+00
162	IHT000035	124.5042	126.2620	125.3285	4.0103e-01	4.2873e+00
163	IHT000036	92.9950	94.5575	93.7138	4.1280e-01	4.2057e+00

Velocity 1 = 13.9970 (ft/sec) (+/- 1.8675 %)
Velocity 2 = 13.4144 (ft/sec) (+/- 1.7033 %)
Pressure drop = 2.2913 (psi)
Tsats in = 267.8690 (deg F) Tsats out = 264.2964 (deg F)
Phi inner = 100.3348 (kBtu/hr-ft2) (+/- 1.4137 %)
Phi outer = 100.7555 (kBtu/hr-ft2) (+/- 1.5420 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.9758	83.8232	83.4292	1.9144e-01	1.9001e+00
1	TRF000002	83.5252	83.9467	83.6517	1.1263e-01	1.9001e+00
2	TFM000001	86.2863	87.1264	86.7166	2.1657e-01	1.9002e+00
3	TIN000001	85.5227	86.2607	85.9255	1.5613e-01	1.9002e+00
4	TRV000001	86.4950	87.3343	86.8715	1.8241e-01	1.9002e+00
5	TSR000001	109.3375	109.9552	109.6933	1.7568e-01	1.9011e+00
6	TAO020136	69.0225	70.8383	69.8669	4.9197e-01	1.9000e+00
7	TAO050136	121.3763	122.0902	121.7904	1.9602e-01	1.9018e+00
8	TAO070136	121.8427	122.7661	122.2552	2.1591e-01	1.9018e+00
9	TAO080136	96.6630	97.9067	97.3376	3.3517e-01	1.9005e+00
10	TAO090136	135.5946	136.5040	136.1059	2.2779e-01	1.9029e+00
11	TAO100136	134.0013	134.7102	134.3358	1.6412e-01	1.9028e+00
12	TAO105136	134.9464	135.8585	135.4472	1.9032e-01	1.9029e+00
13	TAO110136	138.8285	139.5323	139.1610	1.6538e-01	1.9032e+00
14	TAO115136	134.6123	135.5239	135.0844	2.2374e-01	1.9029e+00
15	TAO120136	142.0812	142.7866	142.4743	2.0571e-01	1.9035e+00
16	TAO125136	93.2450	94.1853	93.7031	2.3576e-01	1.9004e+00
17	TAO130136	137.2811	137.8820	137.5076	1.3292e-01	1.9031e+00
18	TAO120048	89.7670	91.0240	90.4687	3.0834e-01	1.9003e+00
19	TAO130048	142.4778	142.9815	142.7141	1.5961e-01	1.9036e+00
20	TAO120224	141.1509	141.8556	141.5392	1.6543e-01	1.9034e+00
21	TAO130224	133.5249	134.4311	133.9263	1.7793e-01	1.9028e+00
22	TAO120312	140.2173	141.1253	140.7239	1.9175e-01	1.9034e+00
23	TAO130312	140.7705	141.4758	141.1878	1.6784e-01	1.9034e+00
24	TRT020000	119.6293	120.4501	120.0622	2.2065e-01	1.9017e+00
25	TRT070000	132.6875	133.4007	133.1338	1.6838e-01	1.9027e+00
26	TRT100000	141.4465	142.1513	141.8113	1.8280e-01	1.9035e+00
27	TRT120000	110.4498	111.2754	110.8645	1.9600e-01	1.9011e+00
28	TRT125000	84.6200	85.3549	84.9878	2.0129e-01	1.9002e+00
29	TRT130000	143.4209	143.9244	143.6410	1.5169e-01	1.9036e+00
30	EMPTY	39.1464	40.2940	39.8030	2.3189e-01	1.9011e+00
31	TAF050136	98.3671	99.2000	98.7649	2.0540e-01	1.9006e+00
32	TAF070136	104.5601	105.4895	105.0004	2.0518e-01	1.9008e+00
33	TAF080136	129.8389	130.6475	130.1928	1.8542e-01	1.9024e+00
34	TAF090136	84.2829	85.4405	84.8325	2.7977e-01	1.9001e+00
35	TAF100136	112.2187	112.9410	112.6170	1.7440e-01	1.9012e+00
36	TAF105136	113.4540	114.5791	114.1189	2.7403e-01	1.9013e+00
37	TAF110136	114.9016	115.8248	115.4453	1.8343e-01	1.9014e+00
38	TAF115136	117.2504	117.9681	117.5317	1.8841e-01	1.9015e+00
39	TAF120136	127.0494	127.9628	127.4700	1.8824e-01	1.9022e+00
40	TAF125136	119.4362	120.8594	120.0402	2.8771e-01	1.9017e+00
41	TAF130136	120.9512	121.6674	121.1874	1.5507e-01	1.9018e+00
42	TAF120048	121.2407	122.1655	121.8183	2.2825e-01	1.9018e+00
43	TAF130048	124.3443	124.8550	124.5998	1.5748e-01	1.9020e+00
44	TAF120224	117.3119	118.0301	117.6384	1.8961e-01	1.9015e+00
45	TAF130224	119.0932	119.7103	119.4450	1.4701e-01	1.9016e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1353	2.2755e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.4633	1.1257e-01	1.9010e+00
48	TAI130048	137.1044	138.7197	137.8579	3.2703e-01	1.9031e+00
49	TAI130136	137.8522	138.6588	138.3220	2.2467e-01	1.9031e+00
50	TAI130224	142.1985	143.5093	142.8379	3.0593e-01	1.9036e+00
51	TAI130312	134.1561	134.8660	134.6206	1.7634e-01	1.9028e+00
52	TRR130000	119.7383	120.7588	120.3278	2.8518e-01	1.9017e+00
53	TSI000001	62.3033	62.9475	62.6016	1.9039e-01	1.9000e+00
54	TSI000002	83.5109	85.9284	84.9422	5.3400e-01	1.9002e+00
55	TSO000001	61.3169	62.2874	61.6903	2.3372e-01	1.9000e+00
56	TSO000002	67.8932	68.6417	68.2337	2.1114e-01	1.9000e+00
57	TAF020136	89.5089	90.3521	90.0381	2.3174e-01	1.9003e+00
58	TAF120312	119.2388	120.1615	119.7085	2.5861e-01	1.9017e+00
59	TAF130312	124.4995	125.1110	124.8119	1.5195e-01	1.9020e+00
60	EMPTY	1.1670	1.1768	1.1715	2.1702e-03	0.0000e+00
61	EMPTY	1.1768	1.1816	1.1771	1.1714e-03	0.0000e+00
62	EMPTY	1.1816	1.1865	1.1819	1.1714e-03	0.0000e+00
63	EMPTY	1.1914	1.1963	1.1924	1.9730e-03	0.0000e+00
64	EMPTY	0.6934	0.6982	0.6981	6.9053e-04	0.0000e+00
65	EMPTY	0.7080	0.7227	0.7184	2.3428e-03	0.0000e+00
66	EMPTY	0.7324	0.7422	0.7371	1.3811e-03	0.0000e+00
67	EMPTY	0.7520	0.7568	0.7565	1.1714e-03	0.0000e+00
68	EMPTY	0.7666	0.7715	0.7693	2.4484e-03	0.0000e+00
69	EMPTY	0.7861	0.7910	0.7862	6.9053e-04	0.0000e+00
70	EMPTY	0.8008	0.8057	0.8009	6.9053e-04	0.0000e+00
71	EMPTY	0.8203	0.8301	0.8252	9.8648e-04	0.0000e+00
72	EMPTY	0.8350	0.8447	0.8395	1.6624e-03	0.0000e+00
73	EMPTY	0.8594	0.8594	0.8594	0.0000e+00	0.0000e+00
74	EMPTY	0.8691	0.8789	0.8741	1.2041e-03	0.0000e+00
75	EMPTY	0.8936	0.8984	0.8937	6.9053e-04	0.0000e+00
76	EMPTY	0.9033	0.9131	0.9079	1.8216e-03	0.0000e+00
77	EMPTY	0.9229	0.9277	0.9273	1.3381e-03	0.0000e+00
78	EMPTY	0.9473	0.9521	0.9474	6.9053e-04	0.0000e+00
79	EMPTY	0.9668	0.9717	0.9713	1.3381e-03	0.0000e+00
80	PAN020136	5.1969	5.7310	5.4365	1.0900e-01	8.7011e-01
81	PAN050136	9.0458	10.1139	9.5432	2.3641e-01	1.6802e+00
82	PAN070136	12.6534	13.3400	12.9265	1.4792e-01	8.7060e-01
83	PAN080136	7.1776	7.6354	7.4859	1.0450e-01	8.7020e-01
84	PAN090136	3.8383	4.1434	3.9375	8.1925e-02	8.7006e-01
85	PAN100136	3.0680	3.5258	3.3137	1.1357e-01	8.7004e-01
86	PAN105136	1.6822	2.0636	1.8775	9.7680e-02	8.7001e-01
87	PAN110136	2.3909	2.7724	2.5984	1.0229e-01	8.7002e-01
88	PAN115136	3.1978	3.5030	3.3382	9.0351e-02	8.7004e-01
89	PAN120136	3.7803	4.3907	4.0840	1.4662e-01	8.7006e-01
90	PAN125136	4.4963	5.1066	4.7633	1.4480e-01	8.7008e-01
91	PAN130136	1.8598	2.3939	2.1406	1.2082e-01	8.7002e-01
92	PAN120048	3.0006	3.4583	3.2691	1.0706e-01	8.7004e-01
93	PAN130048	4.1435	4.6013	4.3678	9.3007e-02	8.7007e-01
94	PAN120224	6.7081	7.2422	6.9690	1.2340e-01	8.7017e-01
95	PAN130224	6.7126	7.0941	6.8622	8.9824e-02	8.7017e-01
96	PAN120312	3.5933	4.1274	3.9443	1.3169e-01	8.7006e-01
97	PAN130312	3.5155	3.8970	3.6955	9.4716e-02	8.7005e-01
98	PAB000136	40.2281	40.4570	40.3370	6.1269e-02	5.8870e-01
99	PAB100136	38.4455	38.6286	38.5507	4.2632e-02	5.8795e-01
100	PAB125136	37.8908	38.0739	37.9852	4.9294e-02	5.8772e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.0808	40.3249	40.2199	6.5296e-02	7.5671e-01
102	PRV0000001	19.8406	19.8406	19.8406	1.9267e-06	7.5164e-01
103	PSR0000001	37.1251	37.3693	37.2423	4.9077e-02	7.5576e-01
104	PFM0000001	29.7476	30.5715	30.0332	2.0147e-01	5.0561e-01
105	PAN000136	61.3847	65.9623	63.4355	1.1373e+00	4.9226e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0072	2.4642e-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	VPW0000001	101.6339	102.0245	101.7979	9.9512e-02	1.0145e+00
113	VPW0000002	118.4608	119.0467	118.7342	1.1161e-01	1.0787e+00
114	VPW0000003	146.4506	147.0365	146.7475	1.1327e-01	1.1964e+00
115	VPW0000004	104.2781	104.8640	104.6844	1.3578e-01	1.0250e+00
116	VPW0000005	139.0663	139.4569	139.3046	9.0756e-02	1.1639e+00
117	VPW0000006	147.2844	147.8703	147.5734	1.1327e-01	1.2000e+00
118	IPW0000001	555.2165	563.0259	558.6134	1.4117e+00	9.2242e+00
119	IPW0000002	1296.4685	1302.3223	1298.8486	1.5911e+00	1.3073e+01
120	IPW0000003	1322.0999	1325.9999	1323.0754	1.1982e+00	1.3223e+01
121	IPW0000004	382.6341	384.0989	383.3958	3.2955e-01	3.6296e+00
122	IPW0000005	254.0498	255.0263	254.6357	3.2714e-01	2.8367e+00
123	IPW0000006	262.2446	264.1978	263.1624	4.2590e-01	2.8848e+00
124	EMPTY	-0.0244	-0.0098	-0.0202	3.9471e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0129	3.2359e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0159	4.3907e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0153	3.2733e-03	0.0000e+00
128	IHT0000001	128.9137	131.0622	129.8590	4.7574e-01	4.3007e+00
129	IHT0000002	132.7674	134.7205	133.7518	4.9278e-01	4.3127e+00
130	IHT0000003	133.0905	135.0436	133.9185	5.0310e-01	4.3132e+00
131	IHT0000004	131.1861	133.3346	132.1353	4.9758e-01	4.3077e+00
132	IHT0000005	129.4621	132.0012	130.5207	5.3100e-01	4.3027e+00
133	IHT0000006	124.3878	126.5362	125.2549	5.2963e-01	4.2871e+00
134	IHT0000007	131.3852	133.7290	132.3149	5.4613e-01	4.3082e+00
135	IHT0000008	129.7701	132.1139	130.8365	4.9945e-01	4.3037e+00
136	IHT0000009	130.3448	132.6885	131.3565	5.4346e-01	4.3053e+00
137	IHT0000010	-40.1029	-37.9545	-39.0521	5.0361e-01	4.1186e+00
138	IHT0000011	130.3072	132.6510	131.4869	5.3227e-01	4.3057e+00
139	IHT0000012	127.9222	130.2659	129.1410	5.3606e-01	4.2986e+00
140	IHT0000013	91.2109	94.1406	92.4688	5.6519e-01	4.2030e+00
141	IHT0000014	127.7569	130.2960	128.8233	5.5693e-01	4.2916e+00
142	IHT0000015	95.0120	97.9417	96.1487	5.4916e-01	4.2112e+00
143	IHT0000016	88.7169	91.2560	89.8224	5.3322e-01	4.1972e+00
144	IHT0000017	106.2425	108.9769	107.7816	7.0547e-01	4.2393e+00
145	IHT0000018	107.3543	110.4793	108.7606	6.6615e-01	4.2418e+00
146	IHT0000019	104.0640	106.2124	104.9390	6.3287e-01	4.2322e+00
147	IHT0000020	106.7833	108.9318	107.7169	5.9620e-01	4.2391e+00
148	IHT0000021	-2.8132	0.5071	-1.2351	7.5267e-01	4.1000e+00
149	IHT0000022	92.6645	95.0083	93.7856	5.9426e-01	4.2059e+00
150	IHT0000023	104.5598	106.7083	105.6809	5.5777e-01	4.2340e+00
151	IHT0000024	69.9632	72.1116	70.9398	5.5102e-01	4.1609e+00
152	IHT0000025	104.7439	107.0876	105.7790	5.7487e-01	4.2343e+00
153	IHT0000026	105.5213	108.2557	106.5174	6.1669e-01	4.2361e+00
154	IHT0000027	90.3846	93.1190	91.3104	6.0207e-01	4.2004e+00
155	IHT0000028	91.5302	94.6552	92.7216	6.8374e-01	4.2035e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0105	108.3308	106.2879	6.8710e-01	4.2355e+00
157	IHT000030	107.4031	110.5281	108.5672	6.6023e-01	4.2413e+00
158	IHT000031	105.8368	108.9618	107.0478	6.2390e-01	4.2374e+00
159	IHT000032	107.1326	110.6483	108.3944	6.6405e-01	4.2409e+00
160	IHT000033	107.1552	110.4755	108.3545	6.5318e-01	4.2408e+00
161	IHT000034	93.9378	96.4768	94.9417	5.4962e-01	4.2085e+00
162	IHT000035	124.3089	126.8480	125.2386	5.3022e-01	4.2870e+00
163	IHT000036	92.6044	95.1435	93.5224	5.0724e-01	4.2053e+00

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Velocity 1 = 0.025101 (ft/sec)

Velocity 2 = 0.001300 (ft/sec)

Pressure Drop = 0.000700 (psi)

Tsat in = 0.240082 (deg F) Tsat out = 0.216095 (deg F)

Phi inner = 0.664001 (kBtu/hr-ft2) Phi outer = 0.540199 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0127	0.0152
1	TRF000002	0.0253	0.0303
2	TFM000001	1.1343	1.2912
3	TIN000001	1.1814	1.3563
4	TRV000001	1.1437	1.2994
5	TSR000001	0.5653	0.5180
6	TAO020136	0.3011	0.4328
7	TAO050136	0.9153	0.7459
8	TAO070136	0.9295	0.7546
9	TAO080136	0.3496	0.3579
10	TAO090136	0.9453	0.6897
11	TAO100136	1.0319	0.7623
12	TAO105136	1.1841	0.8660
13	TAO110136	1.0924	0.7789
14	TAO115136	1.0983	0.8065
15	TAO120136	1.1442	0.7967
16	TAO125136	0.4562	0.4845
17	TAO130136	1.0913	0.7874
18	TAO120048	0.4251	0.4721
19	TAO130048	1.0430	0.7255
20	TAO120224	1.0515	0.7374
21	TAO130224	1.1118	0.8233
22	TAO120312	0.9731	0.6867
23	TAO130312	1.0696	0.7519
24	TRT020000	0.9906	0.8183
25	TRT070000	1.0219	0.7617
26	TRT100000	0.9806	0.6867
27	TRT120000	0.2942	0.2647
28	TRT125000	0.3615	0.4235
29	TRT130000	1.0876	0.7515
30	EMPTY	0.0459	0.1155
31	TAF050136	1.1412	1.1423
32	TAF070136	1.1789	1.1103
33	TAF080136	1.0370	0.7902
34	TAF090136	0.1870	0.2200
35	TAF100136	1.1149	0.9803
36	TAF105136	1.0818	0.9391
37	TAF110136	1.1269	0.9667
38	TAF115136	1.0936	0.9219
39	TAF120136	1.0739	0.8354
40	TAF125136	1.0810	0.8925
41	TAF130136	1.1475	0.9380
42	TAF120048	1.1737	0.9543
43	TAF130048	1.1382	0.9052
44	TAF120224	1.1644	0.9801
45	TAF130224	1.1378	0.9436

#	Name	Abs Diff	%Diff
46	EMPTY	0.0643	0.1689
47	EMPTY	0.0413	0.1048
48	TAI130048	1.0871	0.7824
49	TAI130136	1.0920	0.7833
50	TAI130224	0.8565	0.5961
51	TAI130312	1.0752	0.7924
52	TRR130000	0.3810	0.3156
53	TSI000001	0.6647	1.0506
54	TSI000002	0.4223	0.4996
55	TSO000001	0.7483	1.1985
56	TSO000002	0.7574	1.0978
57	TAF020136	1.2211	1.3381
58	TAF120312	1.2345	1.0207
59	TAF130312	1.1493	0.9124
60	EMPTY	0.0265	2.2120
61	EMPTY	0.0285	2.3640
62	EMPTY	0.0287	2.3707
63	EMPTY	0.0277	2.2703
64	EMPTY	0.0145	2.0348
65	EMPTY	0.0173	2.3515
66	EMPTY	0.0148	1.9683
67	EMPTY	0.0151	1.9570
68	EMPTY	0.0163	2.0749
69	EMPTY	0.0167	2.0800
70	EMPTY	0.0161	1.9706
71	EMPTY	0.0148	1.7619
72	EMPTY	0.0150	1.7554
73	EMPTY	0.0146	1.6705
74	EMPTY	0.0160	1.7975
75	EMPTY	0.0143	1.5749
76	EMPTY	0.0149	1.6147
77	EMPTY	0.0151	1.6023
78	EMPTY	0.0178	1.8442
79	EMPTY	0.0151	1.5308
80	PAN020136	0.0656	1.2214
81	PAN050136	0.0335	0.3523
82	PAN070136	0.1053	0.8213
83	PAN080136	0.0061	0.0814
84	PAN090136	0.0183	0.4626
85	PAN100136	0.0214	0.6417
86	PAN105136	0.0580	3.1877
87	PAN110136	0.0412	1.5608
88	PAN115136	0.0045	0.1346
89	PAN120136	0.1282	3.2408
90	PAN125136	0.0168	0.3539
91	PAN130136	0.1495	6.5281
92	PAN120048	0.0122	0.3746
93	PAN130048	0.0290	0.6596
94	PAN120224	0.0382	0.5452
95	PAN130224	0.0428	0.6276
96	PAN120312	0.1160	3.0301
97	PAN130312	0.1297	3.3907
98	PAB000136	0.1620	0.4032
99	PAB100136	0.1446	0.3765
100	PAB125136	0.1383	0.3654

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1025	0.2555
102	PRV000001	0.1099	0.5509
103	PSR000001	0.1294	0.3487
104	PFM000001	0.1025	0.3401
105	PAN000136	0.0183	0.0289
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0005	6.4935
108	EMPTY	0.0000	0.0000
109	EMPTY	0.0001	2.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0006	100.0000
112	VPW000001	0.1328	0.1303
113	VPW000002	0.0040	0.0034
114	VPW000003	0.0430	0.0293
115	VPW000004	0.1094	0.1044
116	VPW000005	0.0976	0.0700
117	VPW000006	0.0977	0.0662
118	IPW000001	7.9654	1.4465
119	IPW000002	17.6398	1.3399
120	IPW000003	9.3990	0.7054
121	IPW000004	0.4492	0.1170
122	IPW000005	0.4395	0.1723
123	IPW000006	0.8887	0.3366
124	EMPTY	0.0025	14.1243
125	EMPTY	0.0011	9.3220
126	EMPTY	0.0033	26.1905
127	EMPTY	0.0003	1.9231
128	IHT000001	0.0859	0.0661
129	IHT000002	0.0782	0.0584
130	IHT000003	0.1172	0.0874
131	IHT000004	0.2070	0.1564
132	IHT000005	0.2070	0.1583
133	IHT000006	0.2539	0.2023
134	IHT000007	0.1719	0.1298
135	IHT000008	0.1836	0.1401
136	IHT000009	0.1211	0.0921
137	IHT000010	0.0429	0.1100
138	IHT000011	0.0079	0.0060
139	IHT000012	0.0156	0.0121
140	IHT000013	0.2265	0.2443
141	IHT000014	0.1406	0.1090
142	IHT000015	0.2266	0.2351
143	IHT000016	0.1485	0.1651
144	IHT000017	0.3594	0.3323
145	IHT000018	0.0820	0.0753
146	IHT000019	0.0235	0.0224
147	IHT000020	0.0586	0.0544
148	IHT000021	0.0469	3.9471
149	IHT000022	0.1211	0.1290
150	IHT000023	0.0118	0.0112
151	IHT000024	0.0118	0.0166
152	IHT000025	0.0195	0.0184
153	IHT000026	0.0157	0.0147
154	IHT000027	0.1093	0.1196
155	IHT000028	0.1953	0.2102

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1055	0.0992
157	IHT000030	0.0938	0.0863
158	IHT000031	0.0899	0.0839
159	IHT000032	0.0781	0.0720
160	IHT000033	0.0664	0.0612
161	IHT000034	0.1836	0.1930
162	IHT000035	0.0899	0.0717
163	IHT000036	0.1914	0.2042

Velocity 1 = 6.0508 (ft/sec) (+/- 4.8312 %)
Velocity 2 = 6.0463 (ft/sec) (+/- 2.3378 %)
Pressure drop = -3.7904 (psi)
Tsat in = 268.1110 (deg F) Tsat out = 273.0683 (deg F)
Phi inner = 100.9309 (kBtu/hr-ft2) (+/- 1.4121 %)
Phi outer = 101.1407 (kBtu/hr-ft2) (+/- 1.5413 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.9758	83.8232	83.4758	2.0417e-01	1.9001e+00
1	TRF000002	83.5252	83.9467	83.7191	1.4016e-01	1.9001e+00
2	TFM000001	85.4462	86.2883	85.9300	1.8869e-01	1.9002e+00
3	TIN000001	84.7852	85.4181	85.1773	1.3810e-01	1.9002e+00
4	TRV000001	85.5545	86.6027	86.1331	2.4192e-01	1.9002e+00
5	TSR000001	112.5161	113.9538	113.3133	3.0681e-01	1.9013e+00
6	TAO020136	71.1572	73.7153	72.3858	5.1274e-01	1.9000e+00
7	TAO050136	157.7375	158.9270	158.4740	2.2298e-01	1.9053e+00
8	TAO070136	162.5800	163.9735	163.2809	3.2850e-01	1.9059e+00
9	TAO080136	113.4272	115.0653	114.2132	4.7869e-01	1.9013e+00
10	TAO090136	187.5410	188.4172	187.8839	1.9278e-01	1.9093e+00
11	TAO100136	187.9815	189.2460	188.5613	2.4377e-01	1.9094e+00
12	TAO105136	191.0051	192.3667	191.5225	2.3449e-01	1.9099e+00
13	TAO110136	190.7922	193.6772	192.5128	6.9316e-01	1.9101e+00
14	TAO115136	192.0822	193.1512	192.5915	2.3918e-01	1.9101e+00
15	TAO120136	203.3894	204.3539	203.9025	2.0837e-01	1.9120e+00
16	TAO125136	125.2538	126.4741	125.8885	3.0513e-01	1.9021e+00
17	TAO130136	195.6059	196.4695	196.0109	1.6214e-01	1.9107e+00
18	TAO120048	89.8706	91.2333	90.6049	3.0074e-01	1.9003e+00
19	TAO130048	204.9493	205.6240	205.2619	1.6322e-01	1.9123e+00
20	TAO120224	201.8569	202.6293	202.1698	1.6938e-01	1.9117e+00
21	TAO130224	189.5952	190.7548	190.1510	2.5627e-01	1.9097e+00
22	TAO120312	202.2125	203.2745	202.6876	2.5925e-01	1.9118e+00
23	TAO130312	201.1751	201.9470	201.4570	2.1581e-01	1.9116e+00
24	TRT020000	151.6622	152.9640	152.1673	2.7808e-01	1.9045e+00
25	TRT070000	182.0822	183.1638	182.6759	2.2974e-01	1.9085e+00
26	TRT100000	198.5398	199.5055	199.0070	2.1730e-01	1.9112e+00
27	TRT120000	144.2882	145.3933	144.7986	3.2997e-01	1.9038e+00
28	TRT125000	83.8890	84.8330	84.4550	1.9340e-01	1.9001e+00
29	TRT130000	204.6777	205.6391	205.0965	1.7461e-01	1.9123e+00
30	EMPTY	39.3761	40.2940	39.8168	2.0652e-01	1.9011e+00
31	TAF050136	114.0247	115.1528	114.7838	2.2305e-01	1.9014e+00
32	TAF070136	127.1166	128.3343	127.7695	2.6636e-01	1.9022e+00
33	TAF080136	178.3287	179.4018	178.8204	2.3069e-01	1.9080e+00
34	TAF090136	84.7034	85.6505	85.2215	2.8322e-01	1.9002e+00
35	TAF100136	146.3105	147.2150	146.8208	2.4433e-01	1.9040e+00
36	TAF105136	149.7575	150.8519	150.1640	2.7078e-01	1.9043e+00
37	TAF110136	152.8316	153.8276	153.2058	1.9681e-01	1.9047e+00
38	TAF115136	156.6431	157.9355	157.4064	2.7641e-01	1.9051e+00
39	TAF120136	178.6742	180.0376	179.3914	3.0834e-01	1.9080e+00
40	TAF125136	162.7707	164.4432	163.6482	3.1241e-01	1.9059e+00
41	TAF130136	166.0631	166.8533	166.4538	1.8827e-01	1.9063e+00
42	TAF120048	166.4412	167.8321	167.2200	3.0256e-01	1.9064e+00
43	TAF130048	173.3508	174.2369	173.7919	2.2582e-01	1.9072e+00
44	TAF120224	157.9397	159.1321	158.6187	2.5106e-01	1.9053e+00
45	TAF130224	163.0295	163.8261	163.4075	2.0706e-01	1.9059e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1583	2.0379e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.7250	1.1583e-01	1.9011e+00
48	TAI130048	200.9984	203.1187	201.8270	4.2743e-01	1.9117e+00
49	TAI130136	199.4441	200.4089	199.8798	2.0553e-01	1.9113e+00
50	TAI130224	203.4391	204.7907	204.1769	3.3926e-01	1.9121e+00
51	TAI130312	192.5624	193.9219	193.2077	2.6015e-01	1.9102e+00
52	TRR130000	127.6660	129.1861	128.3318	3.5583e-01	1.9023e+00
53	TSI000001	61.8749	62.6271	62.2533	1.8794e-01	1.9000e+00
54	TSI000002	76.3421	80.5631	78.1249	9.4644e-01	1.9000e+00
55	TSO000001	60.2382	61.3162	60.8637	2.3970e-01	1.9001e+00
56	TSO000002	70.9855	71.8386	71.4206	2.0858e-01	1.9000e+00
57	TAF020136	94.7745	95.7190	95.2193	2.5317e-01	1.9004e+00
58	TAF120312	162.9681	164.6524	163.6338	3.5146e-01	1.9059e+00
59	TAF130312	174.5414	175.7197	175.0870	2.7558e-01	1.9074e+00
60	EMPTY	2.3779	2.3877	2.3850	2.8179e-03	0.0000e+00
61	EMPTY	2.3730	2.3828	2.3795	2.5034e-03	0.0000e+00
62	EMPTY	2.3633	2.3779	2.3740	3.1195e-03	0.0000e+00
63	EMPTY	2.3730	2.3779	2.3762	2.3675e-03	0.0000e+00
64	EMPTY	1.2158	1.2256	1.2180	2.6396e-03	0.0000e+00
65	EMPTY	1.2354	1.2402	1.2380	2.4583e-03	0.0000e+00
66	EMPTY	1.2500	1.2549	1.2501	6.9053e-04	0.0000e+00
67	EMPTY	1.2646	1.2695	1.2656	1.9730e-03	0.0000e+00
68	EMPTY	1.2744	1.2891	1.2773	2.9594e-03	0.0000e+00
69	EMPTY	1.2891	1.2939	1.2929	2.0432e-03	0.0000e+00
70	EMPTY	1.2988	1.3037	1.3036	6.9053e-04	0.0000e+00
71	EMPTY	1.3232	1.3232	1.3232	0.0000e+00	0.0000e+00
72	EMPTY	1.3281	1.3379	1.3331	1.2041e-03	0.0000e+00
73	EMPTY	1.3477	1.3525	1.3519	1.7115e-03	0.0000e+00
74	EMPTY	1.3623	1.3672	1.3625	9.6655e-04	0.0000e+00
75	EMPTY	1.3770	1.3818	1.3797	2.4484e-03	0.0000e+00
76	EMPTY	1.3867	1.3916	1.3909	1.7115e-03	0.0000e+00
77	EMPTY	1.4014	1.4111	1.4063	1.2041e-03	0.0000e+00
78	EMPTY	1.4258	1.4307	1.4259	6.9053e-04	0.0000e+00
79	EMPTY	1.4453	1.4502	1.4455	9.6655e-04	0.0000e+00
80	PAN020136	-14.0292	-13.6477	-13.9117	8.8826e-02	8.7069e-01
81	PAN050136	-27.2701	-26.3546	-26.7208	1.8238e-01	1.6813e+00
82	PAN070136	-16.2621	-15.8043	-16.0499	1.0931e-01	8.7092e-01
83	PAN080136	-8.1575	-7.7760	-7.9667	9.0206e-02	8.7023e-01
84	PAN090136	-8.8265	-8.5213	-8.6861	7.7621e-02	8.7027e-01
85	PAN100136	-8.6812	-8.4523	-8.5637	6.5775e-02	8.7026e-01
86	PAN105136	-4.4977	-4.2688	-4.3817	5.1676e-02	8.7007e-01
87	PAN110136	-4.3230	-4.0178	-4.1307	6.5829e-02	8.7006e-01
88	PAN115136	-4.2027	-3.8975	-4.0761	7.6465e-02	8.7006e-01
89	PAN120136	-3.8491	-3.5439	-3.6797	7.7514e-02	8.7005e-01
90	PAN125136	-3.6672	-3.4383	-3.5161	6.2592e-02	8.7004e-01
91	PAN130136	-4.3200	-4.0911	-4.2254	7.1570e-02	8.7006e-01
92	PAN120048	-9.0539	-8.7487	-8.9303	6.6992e-02	8.7029e-01
93	PAN130048	-8.5213	-8.2161	-8.3641	8.3590e-02	8.7025e-01
94	PAN120224	-7.5589	-7.3300	-7.4780	6.6135e-02	8.7020e-01
95	PAN130224	-8.0121	-7.6306	-7.8061	7.8972e-02	8.7022e-01
96	PAN120312	-8.3848	-8.0033	-8.2368	9.6763e-02	8.7024e-01
97	PAN130312	-8.6915	-8.3101	-8.5145	8.9133e-02	8.7026e-01
98	PAB000136	40.4112	40.5943	40.5009	4.8020e-02	5.8877e-01
99	PAB100136	43.1604	43.3435	43.2401	5.2974e-02	5.8999e-01
100	PAB125136	43.9333	44.0706	43.9874	4.6875e-02	5.9033e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.2028	40.5690	40.3518	1.0255e-01	7.5675e-01
102	PRV0000001	19.7186	19.9627	19.8406	4.2716e-02	7.5164e-01
103	PSR0000001	43.9611	44.2052	44.0953	5.0842e-02	7.5806e-01
104	PFM0000001	5.3030	5.7608	5.5154	1.0696e-01	5.0019e-01
105	PAN000136	-107.0723	-103.4102	-104.9391	7.7713e-01	4.9270e+00
106	PFM0000002	5.4195	5.6209	5.5071	4.5896e-02	2.0047e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0036	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	101.6339	102.2198	101.8877	1.7313e-01	1.0148e+00
113	VPW0000002	118.8514	119.2421	119.0819	1.0942e-01	1.0801e+00
114	VPW0000003	146.8412	147.4271	147.0991	1.4994e-01	1.1979e+00
115	VPW0000004	104.6687	105.0593	104.8367	1.4770e-01	1.0256e+00
116	VPW0000005	139.4569	139.8475	139.6405	9.9902e-02	1.1654e+00
117	VPW0000006	147.4797	148.0657	147.7296	1.2503e-01	1.2007e+00
118	IPW0000001	545.4548	553.2642	548.9690	2.0871e+00	9.1879e+00
119	IPW0000002	1304.2736	1319.8837	1311.1809	4.7176e+00	1.3149e+01
120	IPW0000003	1325.9999	1331.8499	1328.5347	1.4872e+00	1.3258e+01
121	IPW0000004	382.1458	384.0989	383.0833	5.8227e-01	3.6275e+00
122	IPW0000005	254.0498	255.5145	254.6162	2.8519e-01	2.8365e+00
123	IPW0000006	262.7329	264.6860	263.6702	4.3940e-01	2.8877e+00
124	EMPTY	-0.0293	-0.0098	-0.0192	4.3461e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0126	2.9742e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0145	3.9410e-03	0.0000e+00
127	EMPTY	-0.0195	0.0000	-0.0142	3.4527e-03	0.0000e+00
128	IHT0000001	128.9137	131.0622	129.7574	5.4454e-01	4.3004e+00
129	IHT0000002	132.7674	134.9158	133.5956	5.0772e-01	4.3122e+00
130	IHT0000003	132.8951	135.0436	133.8169	4.5854e-01	4.3129e+00
131	IHT0000004	131.1861	133.1393	132.0611	4.6057e-01	4.3074e+00
132	IHT0000005	129.4621	131.4153	130.3996	4.3225e-01	4.3024e+00
133	IHT0000006	124.1925	126.1456	125.2198	4.4957e-01	4.2870e+00
134	IHT0000007	131.1899	133.3384	132.2954	4.6790e-01	4.3082e+00
135	IHT0000008	129.9654	131.7233	130.7779	4.3290e-01	4.3035e+00
136	IHT0000009	130.3448	132.4932	131.2315	4.7549e-01	4.3049e+00
137	IHT0000010	-40.6889	-37.7592	-39.1498	5.5893e-01	4.1186e+00
138	IHT0000011	129.7213	132.2603	131.1822	5.2532e-01	4.3048e+00
139	IHT0000012	127.3362	129.8753	128.8206	5.5664e-01	4.2976e+00
140	IHT0000013	90.6250	93.3594	92.2188	5.1351e-01	4.2024e+00
141	IHT0000014	127.1710	129.3194	128.5850	4.7443e-01	4.2969e+00
142	IHT0000015	94.6214	96.9651	95.9651	4.8430e-01	4.2108e+00
143	IHT0000016	88.3263	90.6701	89.5177	4.8368e-01	4.1966e+00
144	IHT0000017	105.6566	109.1722	107.2972	7.5696e-01	4.2381e+00
145	IHT0000018	107.1590	109.6980	108.5457	5.4569e-01	4.2413e+00
146	IHT0000019	103.6734	105.8218	104.7827	4.8878e-01	4.2318e+00
147	IHT0000020	106.7833	108.5412	107.5216	4.5897e-01	4.2386e+00
148	IHT0000021	-2.4226	-0.0789	-1.3172	5.6028e-01	4.1000e+00
149	IHT0000022	92.4692	94.4223	93.3872	4.2909e-01	4.2050e+00
150	IHT0000023	104.5598	106.7083	105.5441	4.9436e-01	4.2337e+00
151	IHT0000024	69.7679	71.5257	70.7366	4.4461e-01	4.1606e+00
152	IHT0000025	104.5485	106.5017	105.6305	4.7056e-01	4.2339e+00
153	IHT0000026	105.3260	107.6698	106.3690	5.2883e-01	4.2357e+00
154	IHT0000027	89.7987	92.5330	91.0057	5.3770e-01	4.1998e+00
155	IHT0000028	91.3349	93.6786	92.4404	4.8905e-01	4.2029e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2058	107.3543	106.2020	4.7062e-01	4.2353e+00
157	IHT000030	107.4031	109.5515	108.4578	4.4643e-01	4.2410e+00
158	IHT000031	105.8368	107.7900	106.9150	4.2543e-01	4.2371e+00
159	IHT000032	107.1326	109.0858	108.1678	4.1432e-01	4.2403e+00
160	IHT000033	107.1552	109.1083	108.1357	4.2221e-01	4.2402e+00
161	IHT000034	93.7425	95.5003	94.7034	4.0786e-01	4.2080e+00
162	IHT000035	124.1136	125.8714	125.0629	3.9064e-01	4.2865e+00
163	IHT000036	92.4091	94.1669	93.3388	3.8371e-01	4.2049e+00

Velocity 1 = 6.0143 (ft/sec) (+/- 4.8841 %)
Velocity 2 = 6.0107 (ft/sec) (+/- 2.3517 %)
Pressure drop = -3.7983 (psi)
Tsat in = 267.9191 (deg F) Tsat out = 272.9336 (deg F)
Phi inner = 99.9850 (kBtu/hr-ft2) (+/- 1.4148 %)
Phi outer = 100.2020 (kBtu/hr-ft2) (+/- 1.5443 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	83.1877	83.8232	83.5563	1.7545e-01	1.9001e+00
1	TRF0000002	83.5252	83.9467	83.7276	1.4093e-01	1.9001e+00
2	TFM0000001	86.0759	87.1273	86.4780	2.1296e-01	1.9002e+00
3	TIN0000001	85.4172	86.1557	85.7276	1.6691e-01	1.9002e+00
4	TRV0000001	86.1826	87.0211	86.6254	2.0992e-01	1.9002e+00
5	TSR0000001	117.2231	118.6530	117.8622	2.8138e-01	1.9015e+00
6	TAO020136	72.0113	73.7153	72.8482	4.5288e-01	1.9000e+00
7	TAO050136	160.2050	161.3901	160.8842	2.5492e-01	1.9056e+00
8	TAO070136	163.3764	165.0673	164.1226	3.9126e-01	1.9060e+00
9	TAO080136	112.7131	113.9417	113.2556	2.7062e-01	1.9013e+00
10	TAO090136	188.5125	189.5811	188.9927	2.1806e-01	1.9095e+00
11	TAO100136	188.4669	189.5365	188.9636	2.2674e-01	1.9095e+00
12	TAO105136	191.7829	193.0460	192.2477	2.9146e-01	1.9100e+00
13	TAO110136	-27.8683	-22.9456	-25.3742	1.1231e+00	1.9061e+00
14	TAO115136	193.2477	194.1210	193.6840	2.2108e-01	1.9103e+00
15	TAO120136	204.4491	205.3162	204.7979	1.8663e-01	1.9122e+00
16	TAO125136	125.2538	126.9825	125.9964	4.1435e-01	1.9021e+00
17	TAO130136	196.6527	197.1352	196.8715	1.3473e-01	1.9108e+00
18	TAO120048	92.3822	93.4290	93.0459	2.8061e-01	1.9004e+00
19	TAO130048	206.0038	206.6761	206.3328	1.4410e-01	1.9125e+00
20	TAO120224	202.6278	203.4954	203.0731	2.0594e-01	1.9119e+00
21	TAO130224	190.3670	191.4268	190.9961	2.3088e-01	1.9098e+00
22	TAO120312	202.9843	203.9489	203.5418	2.1005e-01	1.9120e+00
23	TAO130312	202.0400	202.9078	202.4050	1.7220e-01	1.9118e+00
24	TRT020000	152.2630	153.5648	152.8381	2.6963e-01	1.9046e+00
25	TRT070000	182.7703	183.9501	183.3427	2.3545e-01	1.9086e+00
26	TRT100000	199.5997	200.6600	200.0334	2.2804e-01	1.9114e+00
27	TRT120000	145.5924	146.5956	146.0678	2.4640e-01	1.9039e+00
28	TRT125000	86.1882	86.9228	86.5558	1.8373e-01	1.9002e+00
29	TRT130000	205.8286	206.4059	206.1151	1.4977e-01	1.9124e+00
30	EMPTY	39.3761	40.0646	39.7571	2.1556e-01	1.9011e+00
31	TAF050136	114.4341	115.8690	115.3673	2.7245e-01	1.9014e+00
32	TAF070136	127.2195	128.8390	127.9662	3.2981e-01	1.9023e+00
33	TAF080136	179.3012	180.3731	179.7674	2.8755e-01	1.9081e+00
34	TAF090136	85.5439	86.5961	86.0724	2.8758e-01	1.9002e+00
35	TAF100136	147.3142	148.2186	147.8027	2.5421e-01	1.9041e+00
36	TAF105136	150.4536	151.5469	150.9200	2.6250e-01	1.9044e+00
37	TAF110136	153.5267	154.4232	154.0152	1.8797e-01	1.9047e+00
38	TAF115136	157.5371	158.8282	158.1982	2.5580e-01	1.9052e+00
39	TAF120136	179.7450	181.0128	180.3790	2.9422e-01	1.9082e+00
40	TAF125136	163.9488	165.3275	164.5656	3.0637e-01	1.9060e+00
41	TAF130136	166.9494	167.6408	167.2640	1.9000e-01	1.9064e+00
42	TAF120048	167.5347	168.7253	168.1361	2.7164e-01	1.9065e+00
43	TAF130048	174.2361	175.2176	174.7758	2.2903e-01	1.9074e+00
44	TAF120224	158.5344	160.0245	159.3115	2.8975e-01	1.9054e+00
45	TAF130224	163.5274	165.0196	164.2536	2.4217e-01	1.9060e+00

AIM

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Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0756	2.3045e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6149	7.9786e-02	1.9011e+00
48	TAI130048	202.3476	203.7919	203.0236	3.2632e-01	1.9119e+00
49	TAI130136	200.4066	201.2743	200.8558	1.9902e-01	1.9115e+00
50	TAI130224	204.7900	206.0437	205.3864	3.1817e-01	1.9123e+00
51	TAI130312	193.7274	194.9893	194.2618	2.6977e-01	1.9104e+00
52	TRR130000	121.5722	122.9995	122.3407	3.9056e-01	1.9018e+00
53	TSI000001	61.4474	62.3060	61.9520	1.9995e-01	1.9000e+00
54	TSI000002	75.0709	78.1382	76.3227	6.3898e-01	1.9000e+00
55	TSO000001	60.1296	60.9926	60.5636	2.1517e-01	1.9001e+00
56	TSC000002	70.7731	71.7317	71.2398	2.2771e-01	1.9000e+00
57	TAF020136	95.0890	96.0341	95.5196	2.7088e-01	1.9004e+00
58	TAF120312	163.7610	165.5437	164.5433	3.5859e-01	1.9060e+00
59	TAF130312	175.4240	176.8951	176.1163	3.0533e-01	1.9076e+00
60	EMPTY	2.4023	2.4121	2.4090	3.2359e-03	0.0000e+00
61	EMPTY	2.3975	2.4072	2.4038	2.6562e-03	0.0000e+00
62	EMPTY	2.3926	2.4023	2.3978	2.2945e-03	0.0000e+00
63	EMPTY	2.3975	2.4023	2.4001	2.4583e-03	0.0000e+00
64	EMPTY	1.2256	1.2354	1.2295	2.2058e-03	0.0000e+00
65	EMPTY	1.2451	1.2549	1.2484	2.5034e-03	0.0000e+00
66	EMPTY	1.2549	1.2646	1.2602	1.6624e-03	0.0000e+00
67	EMPTY	1.2744	1.2793	1.2771	2.4484e-03	0.0000e+00
68	EMPTY	1.2842	1.2891	1.2887	1.3381e-03	0.0000e+00
69	EMPTY	1.3037	1.3037	1.3037	0.0000e+00	0.0000e+00
70	EMPTY	1.3135	1.3184	1.3139	1.3381e-03	0.0000e+00
71	EMPTY	1.3330	1.3379	1.3332	9.6655e-04	0.0000e+00
72	EMPTY	1.3428	1.3477	1.3436	1.8082e-03	0.0000e+00
73	EMPTY	1.3574	1.3623	1.3621	9.6655e-04	0.0000e+00
74	EMPTY	1.3721	1.3867	1.3749	2.9742e-03	0.0000e+00
75	EMPTY	1.3867	1.3916	1.3911	1.4797e-03	0.0000e+00
76	EMPTY	1.4014	1.4014	1.4014	0.0000e+00	0.0000e+00
77	EMPTY	1.4160	1.4209	1.4184	2.4642e-03	0.0000e+00
78	EMPTY	1.4307	1.4404	1.4371	2.5034e-03	0.0000e+00
79	EMPTY	1.4551	1.4600	1.4581	2.3941e-03	0.0000e+00
80	PAN020136	-14.1055	-13.8003	-13.9605	7.7453e-02	8.7070e-01
81	PAN050136	-27.2701	-26.5072	-26.8612	1.6148e-01	1.6813e+00
82	PAN070136	-16.3383	-15.9569	-16.1201	9.8708e-02	8.7093e-01
83	PAN080136	-8.2337	-7.8523	-8.0278	9.5328e-02	8.7023e-01
84	PAN090136	-8.8265	-8.5976	-8.7304	7.0314e-02	8.7027e-01
85	PAN100136	-8.6812	-8.3761	-8.5485	7.5212e-02	8.7026e-01
86	PAN105136	-4.5739	-4.2688	-4.4198	7.3097e-02	8.7007e-01
87	PAN110136	-4.3230	-4.0178	-4.1704	6.1655e-02	8.7006e-01
88	PAN115136	-4.2790	-4.0501	-4.1478	6.5467e-02	8.7006e-01
89	PAN120136	-3.9254	-3.5439	-3.7529	7.6775e-02	8.7005e-01
90	PAN125136	-3.6672	-3.4383	-3.5589	6.9087e-02	8.7005e-01
91	PAN130136	-4.3200	-4.0911	-4.2025	8.6110e-02	8.7006e-01
92	PAN120048	-9.0539	-8.8250	-8.9455	6.9087e-02	8.7029e-01
93	PAN130048	-8.5975	-8.2924	-8.4556	9.1202e-02	8.7026e-01
94	PAN120224	-7.7115	-7.3300	-7.5467	9.0351e-02	8.7020e-01
95	PAN130224	-8.0884	-7.6306	-7.8809	8.4481e-02	8.7022e-01
96	PAN120312	-8.4611	-8.1559	-8.3101	7.6278e-02	8.7025e-01
97	PAN130312	-8.6915	-8.3101	-8.5832	8.8666e-02	8.7026e-01
98	PAB000136	40.2281	40.4570	40.3709	4.8621e-02	5.8872e-01
99	PAB100136	43.0231	43.2520	43.1256	5.1125e-02	5.8994e-01
100	PAB125136	43.7960	43.9791	43.8894	4.7121e-02	5.9029e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.9587	40.2028	40.1052	6.0409e-02	7.5667e-01
102	PRV0000001	19.4744	19.8406	19.6966	5.8828e-02	7.5161e-01
103	PSR0000001	43.8390	44.0831	43.9586	3.8916e-02	7.5801e-01
104	PFM0000001	5.3030	5.6692	5.4476	9.0783e-02	5.0019e-01
105	PAN000136	-107.0723	-102.9525	-105.1589	7.3806e-01	4.9270e+00
106	PFM0000002	5.3692	5.5034	5.4410	3.7142e-02	2.0046e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-9.8047	-9.9961	2.7621e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0046	1.1714e-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	101.6339	102.4151	102.0245	1.8924e-01	1.0153e+00
113	VPW0000002	118.8514	119.2421	119.0546	6.7888e-02	1.0800e+00
114	VPW0000003	146.8412	147.2318	147.0561	1.3811e-01	1.1978e+00
115	VPW0000004	104.6687	105.2546	104.9344	1.1679e-01	1.0259e+00
116	VPW0000005	139.4569	139.8475	139.6600	1.2453e-01	1.1655e+00
117	VPW0000006	147.6750	148.0657	147.9327	1.1464e-01	1.2016e+00
118	IPW0000001	557.1689	563.0259	559.7459	1.4988e+00	9.2284e+00
119	IPW0000002	1275.0045	1290.6146	1279.5316	3.1150e+00	1.2953e+01
120	IPW0000003	1310.3999	1318.1998	1314.4954	2.0184e+00	1.3170e+01
121	IPW0000004	383.1223	384.0989	383.6204	2.8744e-01	3.6311e+00
122	IPW0000005	253.0734	254.0498	253.6104	3.1580e-01	2.8309e+00
123	IPW0000006	262.2446	263.7095	262.8011	3.8219e-01	2.8828e+00
124	EMPTY	-0.0244	-0.0098	-0.0179	3.6393e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0122	3.3087e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0131	3.1874e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0144	3.7447e-03	0.0000e+00
128	IHT0000001	128.7184	130.8669	129.7926	5.2682e-01	4.3005e+00
129	IHT0000002	132.5721	134.7205	133.5878	5.0992e-01	4.3121e+00
130	IHT0000003	132.8951	135.0436	133.8716	5.0378e-01	4.3130e+00
131	IHT0000004	131.1861	133.3346	132.1158	4.6280e-01	4.3076e+00
132	IHT0000005	129.4621	131.8059	130.4582	5.0571e-01	4.3025e+00
133	IHT0000006	124.5831	126.5362	125.3291	4.7954e-01	4.2873e+00
134	IHT0000007	131.5806	133.7290	132.3618	4.9284e-01	4.3084e+00
135	IHT0000008	129.9654	132.1139	130.8208	4.7497e-01	4.3037e+00
136	IHT0000009	130.3448	132.4932	131.2432	5.1900e-01	4.3049e+00
137	IHT0000010	-40.1029	-37.9545	-39.1068	5.3416e-01	4.1186e+00
138	IHT0000011	130.5025	132.4557	131.4751	4.7921e-01	4.3056e+00
139	IHT0000012	128.1175	130.2659	129.1253	5.2402e-01	4.2985e+00
140	IHT0000013	91.4063	93.3594	92.3789	4.9045e-01	4.2028e+00
141	IHT0000014	127.7569	129.9054	128.6827	4.8778e-01	4.2972e+00
142	IHT0000015	95.2073	97.1604	96.0628	4.5488e-01	4.2110e+00
143	IHT0000016	88.7169	90.6701	89.5763	4.8488e-01	4.1967e+00
144	IHT0000017	105.4613	108.1956	106.9808	6.5589e-01	4.2373e+00
145	IHT0000018	107.1590	109.8933	108.4246	5.8426e-01	4.2409e+00
146	IHT0000019	103.6734	105.6265	104.6304	4.9324e-01	4.2314e+00
147	IHT0000020	106.5880	108.5412	107.4318	4.7750e-01	4.2384e+00
148	IHT0000021	-2.2273	-0.0789	-1.3132	6.1944e-01	4.1000e+00
149	IHT0000022	92.4692	94.6176	93.4028	5.2688e-01	4.2050e+00
150	IHT0000023	104.7551	106.7083	105.4309	4.4853e-01	4.2334e+00
151	IHT0000024	69.9632	71.7210	70.6233	4.2479e-01	4.1604e+00
152	IHT0000025	104.7439	106.5017	105.5407	4.4440e-01	4.2337e+00
153	IHT0000026	105.5213	107.2792	106.2635	4.6017e-01	4.2355e+00
154	IHT0000027	90.1893	92.1424	90.9822	4.6757e-01	4.1997e+00
155	IHT0000028	91.3349	94.8505	92.5146	6.6023e-01	4.2031e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0105	108.5262	106.0926	6.5579e-01	4.2350e+00
157	IHT000030	107.4031	110.9187	108.3953	6.8894e-01	4.2409e+00
158	IHT000031	105.6415	109.3525	106.8994	7.0824e-01	4.2371e+00
159	IHT000032	107.1326	110.6483	108.2069	7.3531e-01	4.2404e+00
160	IHT000033	106.9599	110.6708	108.1670	7.1756e-01	4.2403e+00
161	IHT000034	93.9378	97.0628	94.8987	5.7971e-01	4.2084e+00
162	IHT000035	124.3089	127.2386	125.1644	5.8646e-01	4.2868e+00
163	IHT000036	92.6044	94.9482	93.4677	5.3392e-01	4.2052e+00

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Velocity 1 = 0.036500 (ft/sec)

Velocity 2 = 0.035600 (ft/sec)

Pressure Drop = 0.007900 (psi)

Tsat in = 0.191895 (deg F) Tsat out = 0.134705 (deg F)

Phi inner = 0.945900 (kBtu/hr-ft2) Phi outer = 0.938698 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0805	0.0964
1	TRF000002	0.0085	0.0102
2	TFM000001	0.5480	0.6377
3	TIN000001	0.5503	0.6461
4	TRV000001	0.4923	0.5716
5	TSR000001	4.5489	4.0144
6	TAO020136	0.4624	0.6388
7	TAO050136	2.4102	1.5209
8	TAO070136	0.8417	0.5155
9	TAO080136	0.9576	0.8384
10	TAO090136	1.1088	0.5902
11	TAO100136	0.4023	0.2134
12	TAO105136	0.7252	0.3786
13	TAO110136	217.8870	113.1805
14	TAO115136	1.0925	0.5673
15	TAO120136	0.8954	0.4391
16	TAO125136	0.1079	0.0857
17	TAO130136	0.8606	0.4391
18	TAO120048	2.4410	2.6941
19	TAO130048	1.0709	0.5217
20	TAO120224	0.9033	0.4468
21	TAO130224	0.8451	0.4444
22	TAO120312	0.8542	0.4214
23	TAO130312	0.9480	0.4706
24	TRT020000	0.6708	0.4408
25	TRT070000	0.6668	0.3650
26	TRT100000	1.0264	0.5158
27	TRT120000	1.2692	0.8765
28	TRT125000	2.1008	2.4875
29	TRT130000	1.0186	0.4966
30	EMPTY	0.0597	0.1499
31	TAF050136	0.5835	0.5084
32	TAF070136	0.1967	0.1539
33	TAF080136	0.9470	0.5296
34	TAF090136	0.8509	0.9985
35	TAF100136	0.9819	0.6688
36	TAF105136	0.7560	0.5034
37	TAF110136	0.8094	0.5283
38	TAF115136	0.7918	0.5030
39	TAF120136	0.9876	0.5505
40	TAF125136	0.9174	0.5606
41	TAF130136	0.8102	0.4867
42	TAF120048	0.9161	0.5478
43	TAF130048	0.9839	0.5661
44	TAF120224	0.6928	0.4368
45	TAF130224	0.8461	0.5178

#	Name	Abs Diff	%Diff
46	EMPTY	0.0827	0.2167
47	EMPTY	0.1101	0.2772
48	TAI130048	1.1966	0.5929
49	TAI130136	0.9760	0.4883
50	TAI130224	1.2095	0.5924
51	TAI130312	1.0541	0.5456
52	TRR130000	5.9911	4.6684
53	TSI000001	0.3013	0.4840
54	TSI000002	1.8022	2.3068
55	TSO000001	0.3001	0.4931
56	TSO000002	0.1808	0.2532
57	TAF020136	0.3003	0.3154
58	TAF120312	0.9095	0.5558
59	TAF130312	1.0293	0.5879
60	EMPTY	0.0240	1.0063
61	EMPTY	0.0243	1.0212
62	EMPTY	0.0238	1.0025
63	EMPTY	0.0239	1.0058
64	EMPTY	0.0115	0.9442
65	EMPTY	0.0104	0.8401
66	EMPTY	0.0101	0.8079
67	EMPTY	0.0115	0.9087
68	EMPTY	0.0114	0.8925
69	EMPTY	0.0108	0.8353
70	EMPTY	0.0103	0.7901
71	EMPTY	0.0100	0.7557
72	EMPTY	0.0105	0.7876
73	EMPTY	0.0102	0.7545
74	EMPTY	0.0124	0.9101
75	EMPTY	0.0114	0.8263
76	EMPTY	0.0105	0.7549
77	EMPTY	0.0121	0.8604
78	EMPTY	0.0112	0.7855
79	EMPTY	0.0126	0.8717
80	PAN020136	0.0488	0.3508
81	PAN050136	0.1404	0.5254
82	PAN070136	0.0702	0.4374
83	PAN080136	0.0611	0.7669
84	PAN090136	0.0443	0.5100
85	PAN100136	0.0152	0.1775
86	PAN105136	0.0381	0.8695
87	PAN110136	0.0397	0.9611
88	PAN115136	0.0717	1.7590
89	PAN120136	0.0732	1.9893
90	PAN125136	0.0428	1.2173
91	PAN130136	0.0229	0.5420
92	PAN120048	0.0152	0.1702
93	PAN130048	0.0915	1.0940
94	PAN120224	0.0687	0.9187
95	PAN130224	0.0748	0.9582
96	PAN120312	0.0733	0.8899
97	PAN130312	0.0687	0.8069
98	PAB000136	0.1300	0.3210
99	PAB100136	0.1145	0.2648
100	PAB125136	0.0980	0.2228

#	Name	Abs Diff	%Diff
101	PIN000001	0.2466	0.6111
102	PRV000001	0.1440	0.7258
103	PSR000001	0.1367	0.3100
104	PFM000001	0.0678	1.2293
105	PAN000136	0.2198	0.2095
106	PFM000002	0.0661	1.2003
107	EMPTY	0.0001	2.0833
108	EMPTY	0.0039	0.0390
109	EMPTY	0.0010	27.7778
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.1368	0.1343
113	VPW000002	0.0273	0.0229
114	VPW000003	0.0430	0.0292
115	VPW000004	0.0977	0.0932
116	VPW000005	0.0195	0.0140
117	VPW000006	0.2031	0.1375
118	IPW000001	10.7769	1.9631
119	IPW000002	31.6493	2.4138
120	IPW000003	14.0393	1.0568
121	IPW000004	0.5371	0.1402
122	IPW000005	1.0058	0.3950
123	IPW000006	0.8691	0.3296
124	EMPTY	0.0013	6.7708
125	EMPTY	0.0004	3.1746
126	EMPTY	0.0014	9.6552
127	EMPTY	0.0002	1.4084
128	IHT000001	0.0352	0.0271
129	IHT000002	0.0078	0.0058
130	IHT000003	0.0547	0.0409
131	IHT000004	0.0547	0.0414
132	IHT000005	0.0586	0.0449
133	IHT000006	0.1093	0.0873
134	IHT000007	0.0664	0.0502
135	IHT000008	0.0429	0.0328
136	IHT000009	0.0117	0.0089
137	IHT000010	0.0430	0.1098
138	IHT000011	0.2929	0.2233
139	IHT000012	0.3047	0.2365
140	IHT000013	0.1601	0.1736
141	IHT000014	0.0977	0.0760
142	IHT000015	0.0977	0.1018
143	IHT000016	0.0586	0.0655
144	IHT000017	0.3164	0.2949
145	IHT000018	0.1211	0.1116
146	IHT000019	0.1523	0.1453
147	IHT000020	0.0898	0.0835
148	IHT000021	0.0040	0.3037
149	IHT000022	0.0156	0.0167
150	IHT000023	0.1132	0.1073
151	IHT000024	0.1133	0.1602
152	IHT000025	0.0898	0.0850
153	IHT000026	0.1055	0.0992
154	IHT000027	0.0235	0.0258
155	IHT000028	0.0742	0.0803

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1094	0.1030
157	IHT000030	0.0625	0.0576
158	IHT000031	0.0156	0.0146
159	IHT000032	0.0391	0.0361
160	IHT000033	0.0313	0.0289
161	IHT000034	0.1953	0.2062
162	IHT000035	0.1015	0.0812
163	IHT000036	0.1289	0.1381

Velocity 1 = 4.0279 (ft/sec) (+/- 10.5232 %)
Velocity 2 = 4.0111 (ft/sec) (+/- 4.1262 %)
Pressure drop = -4.6469 (psi)
Tsats in = 268.0124 (deg F) Tsats out = 274.1108 (deg F)
Phi inner = 100.7989 (kBtu/hr-ft2) (+/- 1.4125 %)
Phi outer = 100.7379 (kBtu/hr-ft2) (+/- 1.5431 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	83.1877	83.8232	83.5394	1.7957e-01	1.9001e+00
1	TRF0000002	83.5252	83.9467	83.7613	1.2512e-01	1.9001e+00
2	TFM0000001	86.4961	87.1273	86.8430	1.7268e-01	1.9002e+00
3	TIN0000001	85.9438	86.3664	86.1068	1.1902e-01	1.9002e+00
4	TRV0000001	86.4970	87.3358	86.9559	2.1879e-01	1.9002e+00
5	TSR0000001	120.4851	124.1456	122.8029	9.7701e-01	1.9019e+00
6	TAO020136	73.0759	74.8851	74.0063	4.5236e-01	1.9000e+00
7	TAO050136	191.9991	193.7363	192.8349	3.2366e-01	1.9101e+00
8	TAO070136	200.2083	202.2432	201.2574	4.5311e-01	1.9116e+00
9	TAO080136	219.8658	220.6245	220.2591	1.7759e-01	1.9151e+00
10	TAO090136	232.1243	233.2579	232.6931	2.5611e-01	1.9177e+00
11	TAO100136	232.2951	233.8051	232.9883	3.1524e-01	1.9178e+00
12	TAO105136	238.1066	239.8970	238.9985	4.4626e-01	1.9191e+00
13	TAO110136	-143.8467	-46.4865	-93.3255	2.3167e+01	1.9179e+00
14	TAO115136	240.6069	242.8634	241.9030	6.3015e-01	1.9198e+00
15	TAO120136	254.9194	255.9454	255.3727	2.3060e-01	1.9230e+00
16	TAO125136	151.3200	153.5119	152.3227	4.6705e-01	1.9046e+00
17	TAO130136	246.0701	247.0837	246.6419	2.5281e-01	1.9209e+00
18	TAO120048	94.3672	95.6190	95.0458	2.9828e-01	1.9004e+00
19	TAO130048	258.1590	259.0864	258.6325	2.2956e-01	1.9238e+00
20	TAO120224	251.6117	252.7314	252.1469	2.8386e-01	1.9222e+00
21	TAO130224	237.9866	239.8530	238.9700	4.1913e-01	1.9191e+00
22	TAO120312	254.2709	255.4842	254.8737	3.4308e-01	1.9229e+00
23	TAO130312	252.4283	253.4540	252.8595	2.5302e-01	1.9224e+00
24	TRT020000	178.7374	180.2102	179.4543	3.4710e-01	1.9081e+00
25	TRT070000	222.5586	223.8989	223.1165	3.1154e-01	1.9157e+00
26	TRT100000	249.5895	250.4301	250.0839	1.9614e-01	1.9217e+00
27	TRT120000	173.1723	174.9400	173.7874	4.6734e-01	1.9072e+00
28	TRT125000	86.3976	87.3397	86.9066	2.1778e-01	1.9002e+00
29	TRT130000	256.4720	257.1225	256.7789	1.7463e-01	1.9234e+00
30	EMPTY	39.3761	40.2940	39.8719	2.2883e-01	1.9011e+00
31	TAF050136	130.7075	132.2231	131.4417	3.6341e-01	1.9025e+00
32	TAF070136	149.6879	151.5781	150.6890	3.6640e-01	1.9044e+00
33	TAF080136	211.5888	230.7612	218.2602	6.6847e+00	1.9148e+00
34	TAF090136	86.5947	87.7493	87.1596	2.9299e-01	1.9002e+00
35	TAF100136	180.1443	182.0067	180.9622	4.4866e-01	1.9083e+00
36	TAF105136	184.6250	186.2721	185.4062	4.4764e-01	1.9090e+00
37	TAF110136	189.2438	191.4696	190.1984	5.2414e-01	1.9097e+00
38	TAF115136	194.8335	197.8253	196.3806	7.5894e-01	1.9107e+00
39	TAF120136	226.0311	230.5544	227.9595	1.2301e+00	1.9167e+00
40	TAF125136	205.0696	208.1190	206.4149	6.1740e-01	1.9125e+00
41	TAF130136	209.1772	211.9481	210.9189	6.6703e-01	1.9133e+00
42	TAF120048	210.2126	213.0082	211.2294	6.1623e-01	1.9134e+00
43	TAF130048	220.2279	224.0296	221.4739	8.8170e-01	1.9154e+00
44	TAF120224	197.0072	200.6721	199.0663	9.9489e-01	1.9112e+00
45	TAF130224	204.8336	205.8973	205.3423	2.9417e-01	1.9123e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1124	2.1413e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.8444	1.7932e-01	1.9011e+00
48	TAI130048	256.8550	258.7159	257.9287	3.6119e-01	1.9236e+00
49	TAI130136	252.3401	253.4581	252.8636	2.5028e-01	1.9224e+00
50	TAI130224	257.5975	258.7168	258.0737	2.7701e-01	1.9237e+00
51	TAI130312	244.7746	246.1825	245.5575	3.4627e-01	1.9207e+00
52	TRR130000	122.6921	123.7108	123.2277	2.9411e-01	1.9019e+00
53	TSI000001	61.9832	62.6271	62.3242	1.4954e-01	1.9000e+00
54	TSI000002	71.8921	75.2836	73.1248	7.5571e-01	1.9000e+00
55	TSO000001	59.9136	60.8852	60.5117	2.0820e-01	1.9001e+00
56	TSO000002	74.3887	75.2383	74.8667	1.7726e-01	1.9000e+00
57	TAF020136	100.4366	102.3180	101.4835	4.4925e-01	1.9007e+00
58	TAF120312	205.1578	208.8120	207.1643	1.0359e+00	1.9126e+00
59	TAF130312	220.7729	223.9065	222.6593	8.8555e-01	1.9156e+00
60	EMPTY	3.5449	3.5986	3.5729	1.8919e-02	0.0000e+00
61	EMPTY	3.5303	3.5791	3.5535	1.6670e-02	0.0000e+00
62	EMPTY	3.5156	3.5596	3.5352	1.4665e-02	0.0000e+00
63	EMPTY	3.5107	3.5498	3.5280	1.3169e-02	0.0000e+00
64	EMPTY	1.7188	1.7334	1.7260	4.8568e-03	0.0000e+00
65	EMPTY	1.7334	1.7529	1.7422	5.5804e-03	0.0000e+00
66	EMPTY	1.7432	1.7627	1.7515	4.3282e-03	0.0000e+00
67	EMPTY	1.7578	1.7725	1.7647	4.3101e-03	0.0000e+00
68	EMPTY	1.7676	1.7822	1.7717	4.1102e-03	0.0000e+00
69	EMPTY	1.7773	1.7920	1.7840	4.3851e-03	0.0000e+00
70	EMPTY	1.7871	1.8018	1.7928	4.1102e-03	0.0000e+00
71	EMPTY	1.8018	1.8164	1.8085	4.7197e-03	0.0000e+00
72	EMPTY	1.8066	1.8213	1.8162	4.0626e-03	0.0000e+00
73	EMPTY	1.8262	1.8359	1.8313	3.8725e-03	0.0000e+00
74	EMPTY	1.8359	1.8506	1.8413	4.2142e-03	0.0000e+00
75	EMPTY	1.8457	1.8604	1.8541	3.9508e-03	0.0000e+00
76	EMPTY	1.8506	1.8750	1.8628	3.5908e-03	0.0000e+00
77	EMPTY	1.8701	1.8799	1.8768	3.3829e-03	0.0000e+00
78	EMPTY	1.8896	1.9043	1.8929	3.5030e-03	0.0000e+00
79	EMPTY	1.9043	1.9141	1.9111	2.6100e-03	0.0000e+00
80	PAN020136	-16.8520	-16.3943	-16.6812	9.5714e-02	8.7100e-01
81	PAN050136	-32.0004	-31.2374	-31.6555	2.0170e-01	1.6819e+00
82	PAN070136	-20.3056	-19.6953	-20.0416	1.2255e-01	8.7144e-01
83	PAN080136	-10.8277	-10.2937	-10.6278	1.0887e-01	8.7041e-01
84	PAN090136	-12.0309	-7.9873	-10.7766	1.0435e+00	8.7042e-01
85	PAN100136	-12.1908	-10.8175	-12.0229	3.1701e-01	8.7052e-01
86	PAN105136	-5.1843	3.9710	-3.2495	1.5322e+00	8.7004e-01
87	PAN110136	-7.1459	-2.7971	-4.3138	7.3851e-01	8.7007e-01
88	PAN115136	-7.4834	-1.3798	-4.6193	9.2344e-01	8.7008e-01
89	PAN120136	-6.7482	3.1700	-4.7814	1.5275e+00	8.7008e-01
90	PAN125136	-6.0323	-3.5909	-4.6483	5.2813e-01	8.7008e-01
91	PAN130136	-5.0829	2.4702	-4.2315	1.1407e+00	8.7006e-01
92	PAN120048	-12.0293	-9.3591	-10.5233	5.7027e-01	8.7040e-01
93	PAN130048	-10.1997	-8.0635	-9.5711	3.8024e-01	8.7033e-01
94	PAN120224	-12.4417	-2.9812	-9.2251	1.5121e+00	8.7031e-01
95	PAN130224	-14.0393	-8.8514	-9.9897	1.1658e+00	8.7036e-01
96	PAN120312	-13.7254	-5.4856	-9.4972	1.2308e+00	8.7032e-01
97	PAN130312	-14.5662	-3.6561	-10.1121	1.3540e+00	8.7037e-01
98	PAB000136	40.3196	40.5485	40.4341	6.0113e-02	5.8874e-01
99	PAB100136	43.8471	44.0302	43.9386	5.1492e-02	5.9031e-01
100	PAB125136	44.6657	44.8488	44.7518	4.5907e-02	5.9069e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2028	40.5690	40.3371	9.9771e-02	7.5675e-01
102	PRV000001	19.5965	19.8406	19.7039	4.7052e-02	7.5162e-01
103	PSR000001	44.8156	45.1818	44.9254	6.1655e-02	7.5836e-01
104	PFM000001	2.2817	2.5564	2.4063	8.0113e-02	5.0004e-01
105	PAN000136	-130.4183	-119.4319	-128.6513	1.6099e+00	4.9305e+00
106	PFM000002	2.3488	2.4160	2.3858	1.4777e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	0.0014	4.3045e-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	101.6339	102.4151	102.0557	1.9475e-01	1.0154e+00
113	VPW000002	119.0467	119.2421	119.1522	9.8332e-02	1.0804e+00
114	VPW000003	146.8412	147.4271	147.1108	1.6690e-01	1.1980e+00
115	VPW000004	104.8640	105.4500	105.1219	1.2750e-01	1.0266e+00
116	VPW000005	139.4569	140.0428	139.7968	1.5185e-01	1.1660e+00
117	VPW000006	147.4797	148.0657	147.8195	1.3560e-01	1.2011e+00
118	IPW000001	543.5024	549.3595	546.7433	1.5077e+00	9.1797e+00
119	IPW000002	1298.4198	1304.2736	1301.6586	1.6543e+00	1.3090e+01
120	IPW000003	1324.0499	1329.8999	1326.5068	1.1693e+00	1.3245e+01
121	IPW000004	381.6575	383.6106	382.7806	4.2142e-01	3.6255e+00
122	IPW000005	253.5616	254.5381	254.0010	3.4523e-01	2.8331e+00
123	IPW000006	262.7329	264.1978	263.3480	3.0897e-01	2.8859e+00
124	EMPTY	-0.0293	-0.0098	-0.0194	4.4654e-03	0.0000e+00
125	EMPTY	-0.0146	0.0000	-0.0121	2.9986e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0157	3.7291e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0147	3.3439e-03	0.0000e+00
128	IHT000001	128.5231	130.8669	129.7067	6.2192e-01	4.3003e+00
129	IHT000002	132.3768	135.3065	133.4706	6.2764e-01	4.3118e+00
130	IHT000003	132.5045	135.0436	133.6607	6.0082e-01	4.3124e+00
131	IHT000004	130.7955	133.9205	131.9283	6.5435e-01	4.3070e+00
132	IHT000005	129.2668	132.3918	130.3410	6.2297e-01	4.3022e+00
133	IHT000006	123.9971	127.3175	125.1612	6.7654e-01	4.2868e+00
134	IHT000007	130.9946	133.9243	132.1704	6.1192e-01	4.3078e+00
135	IHT000008	129.7701	132.6998	130.6529	6.1919e-01	4.3031e+00
136	IHT000009	130.1495	132.6885	131.1299	6.3930e-01	4.3046e+00
137	IHT000010	-40.4935	-37.9545	-39.2084	6.1775e-01	4.1187e+00
138	IHT000011	129.7213	132.2603	131.1744	5.9078e-01	4.3047e+00
139	IHT000012	127.3362	130.0706	128.8831	5.3063e-01	4.2978e+00
140	IHT000013	91.0156	93.3594	92.1914	5.1673e-01	4.2024e+00
141	IHT000014	127.1710	129.5147	128.3624	5.2386e-01	4.2962e+00
142	IHT000015	94.6214	96.7698	95.9183	4.4775e-01	4.2107e+00
143	IHT000016	88.1310	90.2794	89.3654	4.8237e-01	4.1963e+00
144	IHT000017	105.0706	108.7816	107.2230	9.4824e-01	4.2379e+00
145	IHT000018	106.9636	109.3074	108.3582	6.1258e-01	4.2408e+00
146	IHT000019	103.6734	105.6265	104.5679	4.8982e-01	4.2312e+00
147	IHT000020	106.3927	108.3458	107.2091	5.0485e-01	4.2379e+00
148	IHT000021	-2.4226	-0.0789	-1.3289	6.2639e-01	4.1000e+00
149	IHT000022	92.0786	94.6176	93.1997	5.5777e-01	4.2046e+00
150	IHT000023	104.1692	106.7083	105.2238	5.6359e-01	4.2329e+00
151	IHT000024	69.5726	71.7210	70.4749	5.1583e-01	4.1601e+00
152	IHT000025	104.3532	106.6970	105.4391	4.9310e-01	4.2334e+00
153	IHT000026	104.9354	107.0838	106.2049	4.9007e-01	4.2353e+00
154	IHT000027	89.4080	91.9471	90.9119	5.6943e-01	4.1996e+00
155	IHT000028	91.1396	93.4833	92.2724	5.3233e-01	4.2025e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0105	107.1590	105.9012	4.9310e-01	4.2346e+00
157	IHT000030	106.8172	109.3562	108.1297	5.3093e-01	4.2402e+00
158	IHT000031	105.2509	107.7900	106.6064	5.3000e-01	4.2363e+00
159	IHT000032	106.5467	109.0858	107.9803	6.0696e-01	4.2398e+00
160	IHT000033	106.3740	109.1033	107.9443	6.0997e-01	4.2397e+00
161	IHT000034	93.3518	95.6956	94.6878	5.1804e-01	4.2079e+00
162	IHT000035	123.5277	126.0667	124.8246	5.5350e-01	4.2858e+00
163	IHT000036	92.2138	94.3622	93.3232	4.7587e-01	4.2049e+00

Velocity 1 = 4.0084 (ft/sec) (+/- 10.6257 %)
 Velocity 2 = 3.9874 (ft/sec) (+/- 4.1685 %)
 Pressure drop = -4.6581 (psi)
 Tsat in = 267.9651 (deg F) Tsat out = 274.1034 (deg F)
 Phi inner = 100.7929 (kBtu/hr-ft2) (+/- 1.4126 %)
 Phi outer = 100.6008 (kBtu/hr-ft2) (+/- 1.5434 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	83.1877	83.8232	83.5563	1.8559e-01	1.9001e+00
1	TRF000002	83.5252	83.9467	83.7444	1.4093e-01	1.9001e+00
2	TFM000001	86.7059	87.4416	87.0653	1.8626e-01	1.9002e+00
3	TIN000001	86.0493	86.5770	86.2880	1.2384e-01	1.9002e+00
4	TRV000001	86.6012	87.5450	87.2530	2.2628e-01	1.9002e+00
5	TSR000001	124.2466	126.6841	125.5689	7.4123e-01	1.9021e+00
6	TAO020136	72.3306	74.4591	73.4870	5.1292e-01	1.9000e+00
7	TAO050136	192.0944	193.3510	192.6383	2.6042e-01	1.9101e+00
8	TAO070136	199.6266	201.9532	200.5673	5.1565e-01	1.9115e+00
9	TAO080136	148.5061	154.7599	150.3761	1.6748e+00	1.9043e+00
10	TAO090136	232.1248	233.3504	232.6969	2.6641e-01	1.9177e+00
11	TAO100136	232.2010	234.1825	233.0750	4.1746e-01	1.9178e+00
12	TAO105136	237.7289	239.3326	238.4819	4.4892e-01	1.9190e+00
13	TAO110136	-97.0343	-68.0234	-84.3732	5.0395e+00	1.9160e+00
14	TAO115136	239.9489	242.7689	241.3466	6.9133e-01	1.9197e+00
15	TAO120136	254.7324	255.8523	255.2385	3.1695e-01	1.9230e+00
16	TAO125136	150.2229	151.7202	151.0474	3.4072e-01	1.9044e+00
17	TAO130136	245.7917	247.0871	246.4278	3.3197e-01	1.9209e+00
18	TAO120048	97.9098	99.1599	98.4664	3.2757e-01	1.9005e+00
19	TAO130048	258.1585	258.9012	258.6176	1.7940e-01	1.9238e+00
20	TAO120224	251.7041	252.5449	252.1208	2.0684e-01	1.9222e+00
21	TAO130224	237.8924	239.7560	238.7539	4.5223e-01	1.9191e+00
22	TAO120312	253.8044	255.4842	254.6611	4.1248e-01	1.9228e+00
23	TAO130312	252.2437	253.3613	252.8149	2.7340e-01	1.9224e+00
24	TRT020000	178.4429	180.2102	179.3994	3.3182e-01	1.9080e+00
25	TRT070000	222.4643	223.7080	223.1127	2.6807e-01	1.9157e+00
26	TRT100000	249.4955	250.6164	249.9386	2.4865e-01	1.9217e+00
27	TRT120000	175.5276	176.9011	176.2986	3.2983e-01	1.9076e+00
28	TRT125000	89.3173	90.2583	89.9048	2.3496e-01	1.9003e+00
29	TRT130000	256.5640	257.3092	256.9052	1.9048e-01	1.9234e+00
30	EMPTY	39.3761	40.0646	39.7755	2.2625e-01	1.9011e+00
31	TAF050136	130.8081	132.5259	131.6881	3.8384e-01	1.9026e+00
32	TAF070136	150.6822	152.2739	151.4442	3.4704e-01	1.9045e+00
33	TAF080136	220.3059	222.8561	221.4053	6.0973e-01	1.9154e+00
34	TAF090136	87.9576	88.9028	88.3675	2.8372e-01	1.9002e+00
35	TAF100136	179.4586	181.9089	181.0798	4.6519e-01	1.9083e+00
36	TAF105136	184.3383	186.1741	185.4140	3.8553e-01	1.9090e+00
37	TAF110136	189.5353	191.4696	190.3921	5.2446e-01	1.9097e+00
38	TAF115136	195.2204	197.9215	196.3420	6.5180e-01	1.9107e+00
39	TAF120136	225.7459	229.4232	227.7561	9.9095e-01	1.9167e+00
40	TAF125136	205.3544	208.5025	206.4683	6.9859e-01	1.9125e+00
41	TAF130136	209.2710	211.3771	210.3645	6.4633e-01	1.9132e+00
42	TAF120048	210.1167	213.3934	211.4839	6.8856e-01	1.9134e+00
43	TAF130048	220.2271	222.3194	221.2573	4.8565e-01	1.9154e+00
44	TAF120224	197.2959	199.3240	198.1866	4.7613e-01	1.9110e+00
45	TAF130224	204.5439	207.1534	205.7136	4.5089e-01	1.9124e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0894	2.1287e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8260	1.4633e-01	1.9011e+00
48	TAI130048	256.6700	258.9019	258.1110	5.5072e-01	1.9237e+00
49	TAI130136	252.4328	253.5514	252.9232	2.4385e-01	1.9224e+00
50	TAI130224	257.5049	258.8104	258.1632	3.1375e-01	1.9237e+00
51	TAI130312	244.9623	246.2762	245.6927	2.9026e-01	1.9207e+00
52	TRR130000	121.2672	122.2870	121.7952	2.7072e-01	1.9018e+00
53	TSI000001	61.9827	62.5199	62.2386	1.8363e-01	1.9000e+00
54	TSI000002	69.9797	73.5906	70.9219	5.9038e-01	1.9000e+00
55	TSO000001	59.9136	60.7773	60.3174	2.1989e-01	1.9001e+00
56	TSO000002	74.3881	75.3450	74.7394	2.2842e-01	1.9000e+00
57	TAF020136	100.3313	102.2129	101.3999	4.0630e-01	1.9007e+00
58	TAF120312	205.0616	208.9075	206.7643	1.0902e+00	1.9126e+00
59	TAF130312	220.9629	224.0957	222.4885	8.2137e-01	1.9156e+00
60	EMPTY	3.5498	3.5938	3.5702	1.3835e-02	0.0000e+00
61	EMPTY	3.5400	3.5742	3.5527	1.1504e-02	0.0000e+00
62	EMPTY	3.5254	3.5547	3.5361	9.2540e-03	0.0000e+00
63	EMPTY	3.5156	3.5449	3.5293	7.7046e-03	0.0000e+00
64	EMPTY	1.7188	1.7334	1.7258	3.5786e-03	0.0000e+00
65	EMPTY	1.7383	1.7480	1.7412	3.4173e-03	0.0000e+00
66	EMPTY	1.7432	1.7578	1.7507	3.4470e-03	0.0000e+00
67	EMPTY	1.7578	1.7725	1.7642	3.4527e-03	0.0000e+00
68	EMPTY	1.7676	1.7822	1.7721	3.9261e-03	0.0000e+00
69	EMPTY	1.7773	1.7920	1.7845	3.4470e-03	0.0000e+00
70	EMPTY	1.7871	1.8018	1.7930	4.0673e-03	0.0000e+00
71	EMPTY	1.8018	1.8164	1.8091	4.3282e-03	0.0000e+00
72	EMPTY	1.8066	1.8262	1.8169	5.0542e-03	0.0000e+00
73	EMPTY	1.8262	1.8408	1.8320	4.4117e-03	0.0000e+00
74	EMPTY	1.8359	1.8506	1.8415	4.1864e-03	0.0000e+00
75	EMPTY	1.8506	1.8604	1.8548	4.0685e-03	0.0000e+00
76	EMPTY	1.8555	1.8701	1.8626	3.1521e-03	0.0000e+00
77	EMPTY	1.8701	1.8945	1.8765	4.7566e-03	0.0000e+00
78	EMPTY	1.8896	1.8994	1.8931	3.3087e-03	0.0000e+00
79	EMPTY	1.9043	1.9141	1.9107	2.8659e-03	0.0000e+00
80	PAN020136	-16.9283	-16.5469	-16.7162	8.8933e-02	8.7100e-01
81	PAN050136	-32.1529	-31.3900	-31.7196	1.6704e-01	1.6819e+00
82	PAN070136	-20.3819	-19.8479	-20.1042	1.0763e-01	8.7145e-01
83	PAN080136	-10.9803	-9.3782	-10.5165	3.8313e-01	8.7040e-01
84	PAN090136	-12.5649	-8.3688	-10.9963	1.0960e+00	8.7043e-01
85	PAN100136	-12.2670	-9.2153	-12.0183	4.4774e-01	8.7052e-01
86	PAN105136	-7.7020	3.8184	-3.9010	1.8367e+00	8.7005e-01
87	PAN110136	-7.2984	3.7642	-3.9003	1.6438e+00	8.7005e-01
88	PAN115136	-7.5597	-2.5243	-4.9489	1.1388e+00	8.7009e-01
89	PAN120136	-5.9090	2.8648	-4.4732	1.4972e+00	8.7007e-01
90	PAN125136	-6.0323	-3.2094	-4.4790	6.5227e-01	8.7007e-01
91	PAN130136	-5.7696	-3.7859	-4.5519	4.2519e-01	8.7007e-01
92	PAN120048	-12.0293	-9.8931	-10.7110	5.5853e-01	8.7041e-01
93	PAN130048	-10.7338	-8.7501	-9.8762	3.7458e-01	8.7035e-01
94	PAN120224	-12.3654	-8.1692	-9.4693	1.0481e+00	8.7032e-01
95	PAN130224	-11.2928	-8.8514	-9.9454	5.7376e-01	8.7036e-01
96	PAN120312	-10.0633	-3.1205	-8.7739	1.2306e+00	8.7028e-01
97	PAN130312	-14.5662	-4.1902	-10.1289	1.4406e+00	8.7037e-01
98	PAB000136	40.3196	40.5485	40.4020	5.8491e-02	5.8873e-01
99	PAB100136	43.7097	44.0302	43.9221	5.8315e-02	5.9030e-01
100	PAB125136	44.6657	44.8488	44.7463	5.0282e-02	5.9069e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0808	40.3249	40.1443	7.0793e-02	7.5669e-01
102	PRV000001	19.5965	19.8406	19.6795	6.2585e-02	7.5161e-01
103	PSR000001	44.6935	45.1818	44.8424	7.1007e-02	7.5833e-01
104	PFM000001	2.2817	2.5564	2.3825	8.3234e-02	5.0004e-01
105	PAN000136	-131.3338	-127.2139	-128.9626	9.4626e-01	4.9306e+00
106	PFM000002	2.2985	2.4327	2.3569	2.3300e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	0.0039	2.6100e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0032	2.3365e-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	102.0245	102.4151	102.2471	1.0447e-01	1.0161e+00
113	VPW000002	118.8514	119.4374	119.1444	1.2001e-01	1.0803e+00
114	VPW000003	147.0365	147.4271	147.1421	1.0595e-01	1.1981e+00
115	VPW000004	104.8640	105.2546	105.1180	1.1334e-01	1.0266e+00
116	VPW000005	139.6522	140.0428	139.8046	1.1361e-01	1.1661e+00
117	VPW000006	147.6750	148.0657	147.8663	1.0799e-01	1.2013e+00
118	IPW000001	547.4072	555.2165	552.3660	1.7732e+00	9.2006e+00
119	IPW000002	1292.5659	1300.3710	1296.7024	1.8339e+00	1.3059e+01
120	IPW000003	1322.0999	1331.8499	1326.3124	2.9046e+00	1.3244e+01
121	IPW000004	378.7278	381.1692	379.7434	6.6057e-01	3.6055e+00
122	IPW000005	252.5851	253.5616	252.9268	3.4523e-01	2.8271e+00
123	IPW000006	262.2446	263.7095	263.0843	3.8257e-01	2.8844e+00
124	EMPTY	-0.0244	-0.0098	-0.0165	3.9323e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0049	-0.0125	3.8409e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0132	4.4391e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0153	3.5582e-03	0.0000e+00
128	IHT000001	128.3278	131.6481	129.6637	6.4399e-01	4.3001e+00
129	IHT000002	131.9862	135.1112	133.4510	6.5939e-01	4.3117e+00
130	IHT000003	132.1139	135.2389	133.7193	6.9171e-01	4.3125e+00
131	IHT000004	130.4049	133.7252	131.9947	7.0034e-01	4.3072e+00
132	IHT000005	128.8762	132.0012	130.3371	6.4385e-01	4.3022e+00
133	IHT000006	123.8018	126.9268	125.1924	5.6722e-01	4.2869e+00
134	IHT000007	130.9946	133.7290	132.1782	5.5441e-01	4.3078e+00
135	IHT000008	129.5748	132.5045	130.7232	5.9926e-01	4.3034e+00
136	IHT000009	130.1495	133.2745	131.2315	6.5460e-01	4.3049e+00
137	IHT000010	-39.9076	-38.1498	-39.2592	4.4370e-01	4.1188e+00
138	IHT000011	130.5025	132.6510	131.2134	4.5465e-01	4.3048e+00
139	IHT000012	128.3128	130.2659	128.9964	4.9324e-01	4.2981e+00
140	IHT000013	91.4063	93.7500	92.2813	5.0569e-01	4.2026e+00
141	IHT000014	127.3663	129.7101	128.4405	5.0878e-01	4.2965e+00
142	IHT000015	95.0120	97.1604	95.9183	4.6815e-01	4.2107e+00
143	IHT000016	88.7169	90.4747	89.4865	4.3657e-01	4.1965e+00
144	IHT000017	105.6566	108.7816	107.0589	7.9771e-01	4.2375e+00
145	IHT000018	107.3543	109.8933	108.2723	5.1335e-01	4.2406e+00
146	IHT000019	103.2828	105.6265	104.5366	4.3241e-01	4.2312e+00
147	IHT000020	106.1974	108.3458	107.2951	4.1364e-01	4.2381e+00
148	IHT000021	-2.4226	-0.0789	-1.2625	5.1962e-01	4.1000e+00
149	IHT000022	92.4692	94.4223	93.3833	3.9546e-01	4.2050e+00
150	IHT000023	104.1692	106.3176	105.2707	3.9805e-01	4.2330e+00
151	IHT000024	69.3773	71.5257	70.4827	3.8583e-01	4.1601e+00
152	IHT000025	104.3532	106.5017	105.4235	4.5032e-01	4.2334e+00
153	IHT000026	104.9354	107.0838	106.1424	4.8277e-01	4.2352e+00
154	IHT000027	89.7987	92.1424	90.9549	4.8623e-01	4.1997e+00
155	IHT000028	91.1396	94.2646	92.5185	6.4526e-01	4.2031e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6199	107.3543	105.9910	5.8459e-01	4.2348e+00
157	IHT000030	106.6219	109.5515	108.2469	6.2070e-01	4.2405e+00
158	IHT000031	105.0556	107.7900	106.7314	6.0372e-01	4.2366e+00
159	IHT000032	106.5467	109.0858	107.9803	5.1992e-01	4.2398e+00
160	IHT000033	106.5693	109.1083	107.9170	5.4426e-01	4.2396e+00
161	IHT000034	93.7425	95.5003	94.7542	4.8116e-01	4.2081e+00
162	IHT000035	123.7230	126.0667	124.9066	5.2853e-01	4.2860e+00
163	IHT000036	92.2138	94.1669	93.3193	4.7615e-01	4.2049e+00

Velocity 1 = 0.019500 (ft/sec)
 Velocity 2 = 0.023700 (ft/sec)
 Pressure Drop = 0.011200 (psi)
 Tsat in = 0.047302 (deg F) Tsat out = 0.007416 (deg F)
 Phi inner = 0.005997 (kBtu/hr-ft2) Phi outer = 0.137100 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0169	0.0202
1	TRF000002	0.0169	0.0202
2	TFM000001	0.2223	0.2560
3	TIN000001	0.1812	0.2104
4	TRV000001	0.2971	0.3417
5	TSR000001	2.7660	2.2524
6	TAO020136	0.5193	0.7017
7	TAO050136	0.1966	0.1019
8	TAO070136	0.6901	0.3429
9	TAO080136	69.8830	31.7276
10	TAO090136	0.0038	0.0016
11	TAO100136	0.0867	0.0372
12	TAO105136	0.5166	0.2162
13	TAO110136	8.9523	9.5926
14	TAO115136	0.5564	0.2300
15	TAO120136	0.1342	0.0526
16	TAO125136	1.2753	0.8372
17	TAO130136	0.2141	0.0868
18	TAO120048	3.4206	3.5989
19	TAO130048	0.0149	0.0058
20	TAO120224	0.0261	0.0103
21	TAO130224	0.2161	0.0904
22	TAO120312	0.2126	0.0834
23	TAO130312	0.0446	0.0176
24	TRT020000	0.0549	0.0306
25	TRT070000	0.0038	0.0017
26	TRT100000	0.1453	0.0581
27	TRT120000	2.5112	1.4450
28	TRT125000	2.9982	3.4499
29	TRT130000	0.1263	0.0492
30	EMPTY	0.0964	0.2418
31	TAF050136	0.2464	0.1875
32	TAF070136	0.7552	0.5012
33	TAF080136	3.1451	1.4410
34	TAF090136	1.2079	1.3858
35	TAF100136	0.1176	0.0650
36	TAF105136	0.0078	0.0042
37	TAF110136	0.1937	0.1018
38	TAF115136	0.0386	0.0197
39	TAF120136	0.2034	0.0892
40	TAF125136	0.0534	0.0259
41	TAF130136	0.5544	0.2628
42	TAF120048	0.2545	0.1205
43	TAF130048	0.2166	0.0978
44	TAF120224	0.8797	0.4419
45	TAF130224	0.3713	0.1808

#	Name	Abs Diff	%Diff
46	EMPTY	0.0230	0.0603
47	EMPTY	0.0184	0.0462
48	TAI130048	0.1823	0.0707
49	TAI130136	0.0596	0.0236
50	TAI130224	0.0895	0.0347
51	TAI130312	0.1352	0.0551
52	TRR130000	1.4325	1.1625
53	TSI000001	0.0856	0.1373
54	TSI000002	2.2029	3.0125
55	TSO000001	0.1943	0.3211
56	TSO000002	0.1273	0.1700
57	TAF020136	0.0836	0.0824
58	TAF120312	0.4000	0.1931
59	TAF130312	0.1708	0.0767
60	EMPTY	0.0027	0.0756
61	EMPTY	0.0008	0.0225
62	EMPTY	0.0009	0.0255
63	EMPTY	0.0013	0.0368
64	EMPTY	0.0002	0.0116
65	EMPTY	0.0010	0.0574
66	EMPTY	0.0008	0.0457
67	EMPTY	0.0005	0.0283
68	EMPTY	0.0004	0.0226
69	EMPTY	0.0005	0.0280
70	EMPTY	0.0002	0.0112
71	EMPTY	0.0006	0.0332
72	EMPTY	0.0007	0.0385
73	EMPTY	0.0007	0.0382
74	EMPTY	0.0002	0.0109
75	EMPTY	0.0007	0.0378
76	EMPTY	0.0002	0.0107
77	EMPTY	0.0003	0.0160
78	EMPTY	0.0002	0.0106
79	EMPTY	0.0004	0.0209
80	PAN020136	0.0350	0.2098
81	PAN050136	0.0641	0.2025
82	PAN070136	0.0626	0.3124
83	PAN080136	0.1113	1.0472
84	PAN090136	0.2197	2.0387
85	PAN100136	0.0046	0.0383
86	PAN105136	0.6515	20.0492
87	PAN110136	0.4135	9.5855
88	PAN115136	0.3296	7.1353
89	PAN120136	0.3082	6.4458
90	PAN125136	0.1693	3.6422
91	PAN130136	0.3204	7.5718
92	PAN120048	0.1877	1.7837
93	PAN130048	0.3051	3.1877
94	PAN120224	0.2442	2.6471
95	PAN130224	0.0443	0.4435
96	PAN120312	0.7233	7.6159
97	PAN130312	0.0168	0.1661
98	PAB000136	0.0321	0.0794
99	PAB100136	0.0165	0.0375
100	PAB125136	0.0055	0.0123

#	Name	Abs Diff	%Diff
101	PIN000001	0.1928	0.4780
102	PRV000001	0.0244	0.1238
103	PSR000001	0.0830	0.1848
104	PFM000001	0.0238	0.9891
105	PAN000136	0.3113	0.2420
106	PFM000002	0.0289	1.2113
107	EMPTY	0.0025	178.5714
108	EMPTY	0.0000	0.0000
109	EMPTY	0.0021	190.9091
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.1914	0.1875
113	VPW000002	0.0078	0.0065
114	VPW000003	0.0313	0.0213
115	VPW000004	0.0039	0.0037
116	VPW000005	0.0078	0.0056
117	VPW000006	0.0468	0.0317
118	IPW000001	5.6227	1.0284
119	IPW000002	4.9562	0.3808
120	IPW000003	0.1945	0.0147
121	IPW000004	3.0372	0.7935
122	IPW000005	1.0742	0.4229
123	IPW000006	0.2637	0.1001
124	EMPTY	0.0029	14.9485
125	EMPTY	0.0004	3.3058
126	EMPTY	0.0025	15.9236
127	EMPTY	0.0006	4.0816
128	IHT000001	0.0430	0.0332
129	IHT000002	0.0196	0.0147
130	IHT000003	0.0586	0.0438
131	IHT000004	0.0664	0.0503
132	IHT000005	0.0039	0.0030
133	IHT000006	0.0312	0.0249
134	IHT000007	0.0078	0.0059
135	IHT000008	0.0703	0.0538
136	IHT000009	0.1016	0.0775
137	IHT000010	0.0508	0.1296
138	IHT000011	0.0390	0.0297
139	IHT000012	0.1133	0.0879
140	IHT000013	0.0899	0.0975
141	IHT000014	0.0781	0.0609
142	IHT000015	0.0000	0.0000
143	IHT000016	0.1211	0.1355
144	IHT000017	0.1641	0.1530
145	IHT000018	0.0859	0.0793
146	IHT000019	0.0313	0.0299
147	IHT000020	0.0860	0.0802
148	IHT000021	0.0664	4.9966
149	IHT000022	0.1836	0.1970
150	IHT000023	0.0469	0.0446
151	IHT000024	0.0078	0.0111
152	IHT000025	0.0156	0.0148
153	IHT000026	0.0625	0.0588
154	IHT000027	0.0430	0.0473
155	IHT000028	0.2461	0.2667

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0898	0.0848
157	IHT000030	0.1172	0.1084
158	IHT000031	0.1250	0.1173
159	IHT000032	0.0000	0.0000
160	IHT000033	0.0273	0.0253
161	IHT000034	0.0664	0.0701
162	IHT000035	0.0820	0.0657
163	IHT000036	0.0039	0.0042

Velocity 1 = 3.3383 (ft/sec) (+/- 15.3610 %)
Velocity 2 = 3.3168 (ft/sec) (+/- 5.8162 %)
Pressure drop = -4.7038 (psi)
Tsats in = 268.2000 (deg F) Tsats out = 274.3966 (deg F)
Phi inner = 100.4335 (kBtu/hr-ft2) (+/- 1.4136 %)
Phi outer = 100.6932 (kBtu/hr-ft2) (+/- 1.5428 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	83.1877	83.8232	83.5606	1.7414e-01	1.9001e+00
1	TRF000002	83.5252	83.9467	83.7149	1.4278e-01	1.9001e+00
2	TFM000001	86.8110	87.6507	87.1660	2.0661e-01	1.9002e+00
3	TIN000001	86.0499	86.8926	86.4396	1.5963e-01	1.9002e+00
4	TRV000001	87.0196	87.8590	87.4203	2.1142e-01	1.9002e+00
5	TSR000001	125.4644	128.8100	127.3690	6.7514e-01	1.9022e+00
6	TAO020136	73.5017	74.9911	74.2617	3.3988e-01	1.9000e+00
7	TAO050136	209.7319	211.5425	210.8445	3.4849e-01	1.9133e+00
8	TAO070136	216.9874	221.2011	218.8751	9.8871e-01	1.9149e+00
9	TAO080136	239.5206	240.3626	239.9643	1.9382e-01	1.9194e+00
10	TAO090136	255.6200	256.8295	256.1428	2.9042e-01	1.9232e+00
11	TAO100136	257.1960	259.9818	258.3982	5.7400e-01	1.9238e+00
12	TAO105136	262.5339	264.7625	263.5535	4.8215e-01	1.9251e+00
13	TAO110136	118.4886	141.9273	125.9243	4.5415e+00	1.9021e+00
14	TAO115136	266.1763	268.7679	267.7150	6.3599e-01	1.9262e+00
15	TAO120136	282.0167	283.3923	282.6240	3.3822e-01	1.9302e+00
16	TAO125136	171.2059	172.3858	171.7946	2.3544e-01	1.9070e+00
17	TAO130136	281.5112	282.9568	282.3490	3.5444e-01	1.9301e+00
18	TAO120048	101.0278	102.1710	101.5499	3.0569e-01	1.9007e+00
19	TAO130048	290.8285	292.1038	291.4714	3.0910e-01	1.9328e+00
20	TAO120224	270.9076	272.1073	271.4444	2.6857e-01	1.9271e+00
21	TAO130224	255.0510	256.4359	255.8250	3.2401e-01	1.9231e+00
22	TAO120312	280.8394	282.6759	281.5873	4.7593e-01	1.9299e+00
23	TAO130312	274.7090	276.4541	275.5194	4.0652e-01	1.9282e+00
24	TRT020000	194.2691	196.0175	194.9359	3.4771e-01	1.9105e+00
25	TRT070000	247.1722	248.4917	247.7995	3.1256e-01	1.9212e+00
26	TRT100000	275.9437	277.6889	276.7469	4.6851e-01	1.9286e+00
27	TRT120000	188.2183	190.0652	188.9940	5.0457e-01	1.9095e+00
28	TRT125000	91.0882	92.0273	91.5363	2.0040e-01	1.9003e+00
29	TRT130000	286.6574	291.3060	289.4750	1.2896e+00	1.9322e+00
30	EMPTY	39.1464	40.2940	39.9086	2.1964e-01	1.9011e+00
31	TAF050136	141.4769	143.3821	142.3899	4.1025e-01	1.9035e+00
32	TAF070136	164.9201	169.0475	166.5231	7.5510e-01	1.9063e+00
33	TAF080136	236.1964	240.7771	238.6442	1.0867e+00	1.9191e+00
34	TAF090136	89.2154	90.4732	89.7961	2.8185e-01	1.9003e+00
35	TAF100136	202.1295	207.3342	204.7628	1.0743e+00	1.9122e+00
36	TAF105136	208.5153	214.9750	211.8783	1.4649e+00	1.9135e+00
37	TAF110136	215.6485	221.3490	218.5184	1.1864e+00	1.9148e+00
38	TAF115136	223.4458	228.1801	225.9826	1.2422e+00	1.9163e+00
39	TAF120136	267.0266	269.9688	268.4821	6.5782e-01	1.9264e+00
40	TAF125136	243.1312	249.0776	246.6818	1.0351e+00	1.9209e+00
41	TAF130136	253.6012	257.8745	255.6889	8.2623e-01	1.9231e+00
42	TAF120048	245.5967	249.3647	247.5364	9.0759e-01	1.9211e+00
43	TAF130048	274.6687	275.2228	274.9034	1.3338e-01	1.9281e+00
44	TAF120224	220.1987	223.9987	221.9955	8.1492e-01	1.9155e+00
45	TAF130224	227.5868	229.7772	228.4157	4.2078e-01	1.9168e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1813	2.1785e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0784	1.1735e-01	1.9011e+00
48	TAI130048	279.7765	281.8879	280.4576	4.5890e-01	1.9296e+00
49	TAI130136	285.6122	287.0735	286.4035	3.6869e-01	1.9313e+00
50	TAI130224	281.0351	283.0586	281.8575	4.4146e-01	1.9300e+00
51	TAI130312	261.6790	263.3520	262.3802	4.5248e-01	1.9248e+00
52	TRR130000	121.4713	122.4905	121.9825	2.6857e-01	1.9018e+00
53	TSI000001	61.9832	62.7337	62.4311	1.7819e-01	1.9000e+00
54	TSI000002	72.7404	75.4964	73.8328	7.9540e-01	1.9000e+00
55	TSO000001	59.8056	60.5614	60.2225	2.1137e-01	1.9001e+00
56	TSO000002	77.4641	78.1005	77.7886	1.8954e-01	1.9000e+00
57	TAF020136	104.8215	106.3856	105.4829	4.1005e-01	1.9008e+00
58	TAF120312	234.0469	238.7635	236.4009	1.2214e+00	1.9186e+00
59	TAF130312	250.5215	256.2011	253.1964	1.3064e+00	1.9225e+00
60	EMPTY	4.3164	4.4287	4.3629	2.9664e-02	0.0000e+00
61	EMPTY	4.3066	4.3994	4.3407	2.9205e-02	0.0000e+00
62	EMPTY	4.2871	4.3701	4.3196	2.7063e-02	0.0000e+00
63	EMPTY	4.2773	4.3506	4.3081	2.3536e-02	0.0000e+00
64	EMPTY	2.0557	2.0898	2.0712	1.0747e-02	0.0000e+00
65	EMPTY	2.0703	2.0996	2.0851	1.0180e-02	0.0000e+00
66	EMPTY	2.0801	2.1094	2.0923	1.0264e-02	0.0000e+00
67	EMPTY	2.0898	2.1191	2.1032	9.9536e-03	0.0000e+00
68	EMPTY	2.0947	2.1240	2.1089	9.2145e-03	0.0000e+00
69	EMPTY	2.1045	2.1338	2.1182	8.8233e-03	0.0000e+00
70	EMPTY	2.1094	2.1387	2.1236	8.7591e-03	0.0000e+00
71	EMPTY	2.1191	2.1484	2.1373	8.7702e-03	0.0000e+00
72	EMPTY	2.1240	2.1582	2.1431	8.6140e-03	0.0000e+00
73	EMPTY	2.1338	2.1680	2.1541	8.4492e-03	0.0000e+00
74	EMPTY	2.1436	2.1777	2.1613	8.4146e-03	0.0000e+00
75	EMPTY	2.1533	2.1826	2.1707	8.0843e-03	0.0000e+00
76	EMPTY	2.1631	2.1875	2.1766	7.6768e-03	0.0000e+00
77	EMPTY	2.1729	2.1973	2.1875	7.6412e-03	0.0000e+00
78	EMPTY	2.1875	2.2070	2.2003	7.3749e-03	0.0000e+00
79	EMPTY	2.2021	2.2266	2.2156	6.8743e-03	0.0000e+00
80	PAN020136	-17.5387	-17.3098	-17.4181	7.2444e-02	8.7109e-01
81	PAN050136	-33.9840	-33.0685	-33.6025	1.9313e-01	1.6821e+00
82	PAN070136	-24.0440	-19.9242	-21.7171	1.4296e+00	8.7169e-01
83	PAN080136	-13.8795	-5.5635	-12.5657	2.0378e+00	8.7057e-01
84	PAN090136	-12.9464	0.0999	-8.0865	2.2188e+00	8.7023e-01
85	PAN100136	-12.1145	-8.5286	-10.2193	9.2807e-01	8.7038e-01
86	PAN105136	-6.0235	-1.0644	-4.7296	7.7820e-01	8.7008e-01
87	PAN110136	-6.3066	-2.7208	-4.1780	6.7385e-01	8.7006e-01
88	PAN115136	-7.5597	-3.8975	-4.9977	8.9254e-01	8.7009e-01
89	PAN120136	-5.7564	-0.9499	-4.0810	1.0037e+00	8.7006e-01
90	PAN125136	-4.5827	-3.1331	-3.8839	3.4202e-01	8.7005e-01
91	PAN130136	-4.3200	-3.8622	-4.1064	1.1008e-01	8.7006e-01
92	PAN120048	-11.8005	-10.7323	-11.4144	2.7200e-01	8.7047e-01
93	PAN130048	-4.7829	-2.6466	-3.5103	6.6215e-01	8.7004e-01
94	PAN120224	-8.6270	-4.5834	-7.2369	8.4793e-01	8.7019e-01
95	PAN130224	-7.3255	-6.1048	-6.8402	2.7433e-01	8.7017e-01
96	PAN120312	-9.7581	-8.2322	-8.9280	3.6137e-01	8.7029e-01
97	PAN130312	-7.5471	-6.0213	-6.7155	3.0760e-01	8.7016e-01
98	PAB000136	40.5027	40.6858	40.5613	4.6278e-02	5.8880e-01
99	PAB100136	44.0302	44.2133	44.1245	5.6566e-02	5.9040e-01
100	PAB125136	44.8946	45.0777	44.9633	4.9155e-02	5.9079e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3249	40.5690	40.4299	6.5296e-02	7.5678e-01
102	PRV000001	19.5965	19.7186	19.6502	6.1209e-02	7.5161e-01
103	PSR000001	44.6935	44.8156	44.7447	6.0861e-02	7.5830e-01
104	PFM000001	1.5493	1.8240	1.6372	6.6587e-02	5.0002e-01
105	PAN000136	-131.3338	-129.0450	-130.2260	5.3199e-01	4.9308e+00
106	PFM000002	1.5938	1.6777	1.6156	1.8334e-02	2.0004e-01
107	EMPTY	-0.0049	0.0049	0.0015	4.3282e-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	1.7115e-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	102.0245	102.4151	102.2627	9.0756e-02	1.0162e+00
113	VPW000002	119.0467	119.4374	119.2577	9.5357e-02	1.0808e+00
114	VPW000003	147.0365	147.4271	147.2163	1.2378e-01	1.1985e+00
115	VPW000004	105.0593	105.4500	105.1688	1.0559e-01	1.0268e+00
116	VPW000005	139.6522	140.4334	140.0116	1.8659e-01	1.1670e+00
117	VPW000006	147.8703	148.2610	148.0382	1.0447e-01	1.2021e+00
118	IPW000001	553.2642	557.1689	555.0602	1.3572e+00	9.2108e+00
119	IPW000002	1288.6635	1296.4685	1292.4878	1.8048e+00	1.3033e+01
120	IPW000003	1316.2499	1322.0999	1320.2275	1.4183e+00	1.3206e+01
121	IPW000004	381.1692	382.6341	381.6966	3.8002e-01	3.6184e+00
122	IPW000005	252.5851	254.0498	253.3370	4.7521e-01	2.8294e+00
123	IPW000006	261.2681	263.2212	262.5276	3.5691e-01	2.8812e+00
124	EMPTY	-0.0293	-0.0146	-0.0197	3.5513e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	3.0067e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0159	3.7963e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0153	3.5582e-03	0.0000e+00
128	IHT000001	128.1325	130.6716	129.4957	5.6011e-01	4.2996e+00
129	IHT000002	132.1815	134.5252	133.2557	5.6255e-01	4.3111e+00
130	IHT000003	132.5045	134.6530	133.4654	5.3647e-01	4.3118e+00
131	IHT000004	130.7955	133.5299	131.7173	5.4682e-01	4.3064e+00
132	IHT000005	129.2668	131.6106	130.1496	5.4710e-01	4.3016e+00
133	IHT000006	124.3878	126.3409	125.0323	5.0417e-01	4.2864e+00
134	IHT000007	131.3852	133.3384	132.1001	4.8586e-01	4.3076e+00
135	IHT000008	129.7701	131.9186	130.5826	4.4356e-01	4.3029e+00
136	IHT000009	130.1495	132.4932	131.0986	5.0070e-01	4.3045e+00
137	IHT000010	-40.2982	-38.5404	-39.3568	4.0181e-01	4.1188e+00
138	IHT000011	130.3072	131.8697	131.0767	4.1085e-01	4.3044e+00
139	IHT000012	127.7269	130.0706	128.8441	4.9133e-01	4.2977e+00
140	IHT000013	91.0156	92.9688	92.0898	4.0673e-01	4.2021e+00
141	IHT000014	127.3663	129.1241	128.2647	4.3940e-01	4.2959e+00
142	IHT000015	94.6214	96.5745	95.7386	4.3947e-01	4.2103e+00
143	IHT000016	88.3263	90.2794	89.3498	4.5431e-01	4.1962e+00
144	IHT000017	105.0706	108.3909	106.8753	8.7307e-01	4.2370e+00
145	IHT000018	106.7683	109.3074	108.2449	6.0123e-01	4.2405e+00
146	IHT000019	103.4781	105.6265	104.5679	5.1613e-01	4.2312e+00
147	IHT000020	106.1974	108.3458	107.2248	5.1116e-01	4.2379e+00
148	IHT000021	-2.6179	-0.0789	-1.3054	5.9194e-01	4.1000e+00
149	IHT000022	92.2739	94.4223	93.2505	4.7351e-01	4.2047e+00
150	IHT000023	104.3645	106.3176	105.1574	4.8714e-01	4.2327e+00
151	IHT000024	69.5726	71.5257	70.4280	4.9895e-01	4.1600e+00
152	IHT000025	104.3532	106.6970	105.3415	5.2111e-01	4.2332e+00
153	IHT000026	105.1307	107.4745	106.0917	5.6060e-01	4.2350e+00
154	IHT000027	89.9940	92.1424	90.8690	5.1936e-01	4.1995e+00
155	IHT000028	91.3349	93.4833	92.2959	5.9692e-01	4.2026e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8152	107.1590	105.8387	5.9524e-01	4.2344e+00
157	IHT000030	107.0125	109.1609	108.0516	5.5164e-01	4.2400e+00
158	IHT000031	105.4462	107.5947	106.4853	5.5586e-01	4.2360e+00
159	IHT000032	106.7420	109.0858	107.8045	5.7610e-01	4.2394e+00
160	IHT000033	106.7646	109.1083	107.7724	5.6409e-01	4.2393e+00
161	IHT000034	93.7425	95.6956	94.4495	4.0025e-01	4.2074e+00
162	IHT000035	123.9183	125.6761	124.6175	4.2332e-01	4.2852e+00
163	IHT000036	92.2138	93.9716	93.1044	3.9094e-01	4.2044e+00

Velocity 1 = 3.3420 (ft/sec) (+/- 15.3271 %)
Velocity 2 = 3.3094 (ft/sec) (+/- 5.8407 %)
Pressure drop = -4.6727 (psi)
Tsats in = 268.1299 (deg F) Tsats out = 274.3064 (deg F)
Phi inner = 101.2880 (kBtu/hr-ft2) (+/- 1.4113 %)
Phi outer = 101.0536 (kBtu/hr-ft2) (+/- 1.5423 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	83.1877	83.8232	83.5605	1.6328e-01	1.9001e+00
1	TRF000002	83.5252	84.1573	83.8161	1.5283e-01	1.9001e+00
2	TFM000001	86.9157	87.7563	87.3548	2.2717e-01	1.9002e+00
3	TIN000001	86.2605	86.8926	86.5912	1.5498e-01	1.9002e+00
4	TRV000001	87.3338	88.2770	87.7341	2.1867e-01	1.9002e+00
5	TSR000001	128.7072	131.7412	130.7074	6.6568e-01	1.9025e+00
6	TAO020136	73.1826	74.9911	74.2701	3.9995e-01	1.9000e+00
7	TAO050136	210.5905	212.4958	211.6026	4.2790e-01	1.9135e+00
8	TAO070136	217.9457	221.7748	219.3615	8.3822e-01	1.9150e+00
9	TAO080136	240.9207	242.0449	241.4365	2.2763e-01	1.9197e+00
10	TAO090136	255.7127	257.1078	256.4921	3.2104e-01	1.9233e+00
11	TAO100136	257.4745	260.1673	258.6508	5.6803e-01	1.9238e+00
12	TAO105136	262.4406	265.3182	264.0287	6.5863e-01	1.9252e+00
13	TAO110136	33.8719	61.0688	49.2017	6.4333e+00	1.9003e+00
14	TAO115136	267.1021	270.5236	268.0555	6.7409e-01	1.9262e+00
15	TAO120136	281.3737	283.7600	282.6019	6.5200e-01	1.9302e+00
16	TAO125136	170.7171	172.8767	171.8064	4.9029e-01	1.9070e+00
17	TAO130136	280.4291	284.1328	282.3169	9.9504e-01	1.9301e+00
18	TAO120048	106.6214	107.8624	107.2853	3.1184e-01	1.9009e+00
19	TAO130048	290.5570	298.7248	294.4235	2.7931e+00	1.9336e+00
20	TAO120224	270.3538	272.1982	271.4296	4.2187e-01	1.9271e+00
21	TAO130224	255.2380	256.7109	255.9066	3.2674e-01	1.9231e+00
22	TAO120312	279.5522	282.2174	280.9664	6.6823e-01	1.9298e+00
23	TAO130312	273.6980	278.3804	276.1065	1.5157e+00	1.9284e+00
24	TRT020000	194.2696	195.7265	195.0562	4.2317e-01	1.9105e+00
25	TRT070000	246.8879	248.9617	247.9009	5.3428e-01	1.9212e+00
26	TRT100000	274.6589	277.5051	275.7340	7.8231e-01	1.9283e+00
27	TRT120000	207.6229	209.6372	208.7151	5.9829e-01	1.9129e+00
28	TRT125000	95.9666	96.9020	96.4725	2.0250e-01	1.9005e+00
29	TRT130000	284.3756	292.1248	289.4778	2.2656e+00	1.9322e+00
30	EMPTY	39.3761	40.2940	39.8719	1.9867e-01	1.9011e+00
31	TAF050136	141.1785	143.3806	142.5784	4.5418e-01	1.9035e+00
32	TAF070136	165.3158	168.2609	166.7592	6.4411e-01	1.9063e+00
33	TAF080136	236.5706	245.3403	240.3357	1.7147e+00	1.9194e+00
34	TAF090136	92.4578	93.6078	93.0285	2.8500e-01	1.9004e+00
35	TAF100136	203.0947	210.0257	206.5843	1.8705e+00	1.9125e+00
36	TAF105136	209.3702	216.5833	213.0821	1.6536e+00	1.9137e+00
37	TAF110136	216.5045	222.7706	219.8780	1.6551e+00	1.9151e+00
38	TAF115136	222.8769	230.3515	227.0039	1.8302e+00	1.9165e+00
39	TAF120136	266.1982	270.6124	268.4381	8.3583e-01	1.9263e+00
40	TAF125136	244.6215	248.4296	246.5113	9.7160e-01	1.9209e+00
41	TAF130136	253.5089	261.3040	255.9338	1.4598e+00	1.9231e+00
42	TAF120048	243.2371	255.1886	249.2504	3.4329e+00	1.9215e+00
43	TAF130048	274.4846	274.8547	274.6900	1.0609e-01	1.9280e+00
44	TAF120224	220.4838	224.6624	222.2424	9.6581e-01	1.9156e+00
45	TAF130224	227.3958	230.2525	228.7012	6.9461e-01	1.9169e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1859	2.0079e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.1518	1.2166e-01	1.9011e+00
48	TAI130048	279.1326	280.8776	280.2484	3.3342e-01	1.9295e+00
49	TAI130136	284.2435	288.0760	286.1295	1.1687e+00	1.9312e+00
50	TAI130224	280.1143	283.1502	281.4526	7.2471e-01	1.9299e+00
51	TAI130312	262.0506	263.2588	262.6960	3.4061e-01	1.9249e+00
52	TRR130000	121.4708	123.1003	122.2636	3.6603e-01	1.9018e+00
53	TSI000001	62.0905	62.7331	62.4227	1.6082e-01	1.9000e+00
54	TSI000002	69.2362	72.8477	71.0918	7.2577e-01	1.9000e+00
55	TSO000001	59.5890	60.5609	60.1833	2.1273e-01	1.9001e+00
56	TSO000002	77.3582	78.4175	77.8733	2.3743e-01	1.9000e+00
57	TAF020136	104.6130	106.8007	105.8993	4.7645e-01	1.9009e+00
58	TAF120312	232.9134	241.3045	236.7959	2.3024e+00	1.9187e+00
59	TAF130312	249.7751	263.8091	256.8539	4.0272e+00	1.9234e+00
60	EMPTY	4.2871	4.5850	4.4391	9.9094e-02	0.0000e+00
61	EMPTY	4.2676	4.5361	4.4005	9.6923e-02	0.0000e+00
62	EMPTY	4.2480	4.4922	4.3627	9.1881e-02	0.0000e+00
63	EMPTY	4.2334	4.4727	4.3372	8.5527e-02	0.0000e+00
64	EMPTY	2.0361	2.1387	2.0756	3.6856e-02	0.0000e+00
65	EMPTY	2.0508	2.1484	2.0858	3.5026e-02	0.0000e+00
66	EMPTY	2.0557	2.1533	2.0896	3.3087e-02	0.0000e+00
67	EMPTY	2.0654	2.1582	2.0972	3.1105e-02	0.0000e+00
68	EMPTY	2.0752	2.1582	2.1003	2.8489e-02	0.0000e+00
69	EMPTY	2.0850	2.1631	2.1072	2.5840e-02	0.0000e+00
70	EMPTY	2.0898	2.1631	2.1114	2.4024e-02	0.0000e+00
71	EMPTY	2.1045	2.1777	2.1239	2.2462e-02	0.0000e+00
72	EMPTY	2.1094	2.1729	2.1284	1.9312e-02	0.0000e+00
73	EMPTY	2.1191	2.1826	2.1383	1.7364e-02	0.0000e+00
74	EMPTY	2.1289	2.1826	2.1455	1.5058e-02	0.0000e+00
75	EMPTY	2.1436	2.1924	2.1546	1.3627e-02	0.0000e+00
76	EMPTY	2.1484	2.1924	2.1605	1.1929e-02	0.0000e+00
77	EMPTY	2.1582	2.2021	2.1718	1.0313e-02	0.0000e+00
78	EMPTY	2.1729	2.2119	2.1855	8.8783e-03	0.0000e+00
79	EMPTY	2.1924	2.2266	2.2017	8.4429e-03	0.0000e+00
80	PAN020136	-17.6150	-17.2335	-17.4212	8.4719e-02	8.7109e-01
81	PAN050136	-33.8314	-32.9159	-33.2058	2.4517e-01	1.6820e+00
82	PAN070136	-24.5781	-19.9242	-21.8361	1.4476e+00	8.7171e-01
83	PAN080136	-13.9558	-9.1493	-12.7015	1.4386e+00	8.7058e-01
84	PAN090136	-13.0990	-6.4614	-9.5300	1.4391e+00	8.7033e-01
85	PAN100136	-10.8175	-6.5450	-9.0169	1.0887e+00	8.7029e-01
86	PAN105136	-7.6257	-1.0644	-4.4091	1.2691e+00	8.7007e-01
87	PAN110136	-6.8407	0.2547	-4.2116	1.0358e+00	8.7006e-01
88	PAN115136	-7.5597	-2.9057	-4.7307	8.6754e-01	8.7008e-01
89	PAN120136	-6.1379	-2.7047	-4.1863	7.5544e-01	8.7006e-01
90	PAN125136	-4.5827	-2.2939	-3.9129	4.7089e-01	8.7006e-01
91	PAN130136	-4.3200	-3.7096	-3.9813	1.6684e-01	8.7006e-01
92	PAN120048	-11.8768	-9.9694	-11.2039	4.1209e-01	8.7046e-01
93	PAN130048	-4.7829	-1.3496	-2.4437	9.9816e-01	8.7002e-01
94	PAN120224	-9.0085	-5.4989	-7.4048	7.2305e-01	8.7020e-01
95	PAN130224	-7.5544	-5.7233	-6.6617	4.4172e-01	8.7016e-01
96	PAN120312	-9.6818	-6.0960	-8.7556	5.5788e-01	8.7028e-01
97	PAN130312	-7.4708	-5.7161	-6.5141	3.9274e-01	8.7015e-01
98	PAB000136	40.4112	40.5943	40.5137	4.5832e-02	5.8878e-01
99	PAB100136	43.9386	44.1675	44.0732	5.8790e-02	5.9037e-01
100	PAB125136	44.8031	44.9862	44.8965	4.7121e-02	5.9076e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2028	40.5690	40.3664	9.0982e-02	7.5676e-01
102	PRV000001	19.5965	19.7186	19.6795	5.7521e-02	7.5161e-01
103	PSR000001	44.5714	44.8156	44.6642	5.8152e-02	7.5827e-01
104	PFM000001	1.4578	1.7324	1.6409	7.8474e-02	5.0002e-01
105	PAN000136	-131.3338	-127.6717	-129.3654	7.4130e-01	4.9306e+00
106	PFM000002	1.5602	1.6609	1.6082	2.0624e-02	2.0004e-01
107	EMPTY	-0.0049	0.0049	0.0018	4.0385e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4971	-9.9690	1.0428e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0014	2.7971e-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	102.2198	102.4151	102.2784	9.0412e-02	1.0162e+00
113	VPW000002	119.0467	119.4374	119.2928	9.5112e-02	1.0809e+00
114	VPW000003	146.8412	147.6225	147.2241	1.6250e-01	1.1985e+00
115	VPW000004	105.0593	105.4500	105.2625	1.3063e-01	1.0271e+00
116	VPW000005	139.8475	140.2381	140.0897	9.3043e-02	1.1673e+00
117	VPW000006	148.0657	148.4563	148.1788	1.1223e-01	1.2027e+00
118	IPW000001	537.6454	547.4072	542.9557	2.8454e+00	9.1656e+00
119	IPW000002	1310.1273	1317.9325	1312.7032	2.2797e+00	1.3159e+01
120	IPW000003	1325.9999	1335.7499	1331.7329	2.5044e+00	1.3278e+01
121	IPW000004	378.2395	379.7044	378.8841	3.6165e-01	3.5999e+00
122	IPW000005	253.0734	254.0498	253.6104	3.1580e-01	2.8309e+00
123	IPW000006	263.7095	264.6860	264.1683	3.4751e-01	2.8905e+00
124	EMPTY	-0.0244	-0.0098	-0.0185	3.3146e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0129	3.2359e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0154	4.1102e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0153	2.7919e-03	0.0000e+00
128	IHT000001	128.3278	131.2575	129.5074	6.5431e-01	4.2997e+00
129	IHT000002	132.1815	134.9158	133.2596	5.8692e-01	4.3111e+00
130	IHT000003	132.5045	134.8483	133.5162	5.6316e-01	4.3119e+00
131	IHT000004	130.7955	133.1393	131.8306	6.2172e-01	4.3067e+00
132	IHT000005	129.2668	131.6106	130.2589	5.9168e-01	4.3019e+00
133	IHT000006	123.9971	126.5362	125.1182	5.7698e-01	4.2867e+00
134	IHT000007	130.7993	133.5337	132.1509	5.9299e-01	4.3077e+00
135	IHT000008	129.1842	131.9186	130.6216	5.7013e-01	4.3030e+00
136	IHT000009	129.7589	132.4932	131.0752	6.1106e-01	4.3044e+00
137	IHT000010	-40.4935	-37.7592	-39.2553	6.2342e-01	4.1187e+00
138	IHT000011	130.3072	133.0416	131.2681	5.8373e-01	4.3050e+00
139	IHT000012	128.1175	130.2659	129.0238	5.7826e-01	4.2982e+00
140	IHT000013	91.0156	93.7500	92.1641	5.8745e-01	4.2023e+00
141	IHT000014	127.1710	129.7101	128.3623	5.7623e-01	4.2962e+00
142	IHT000015	94.6214	97.1604	95.7854	5.7312e-01	4.2104e+00
143	IHT000016	88.1310	90.4747	89.3459	5.3712e-01	4.1962e+00
144	IHT000017	104.6800	108.9769	106.9144	9.2889e-01	4.2371e+00
145	IHT000018	107.1590	109.6980	108.2606	5.9420e-01	4.2405e+00
146	IHT000019	103.4781	105.4312	104.5249	4.6481e-01	4.2311e+00
147	IHT000020	106.1974	108.3458	107.2169	4.8854e-01	4.2379e+00
148	IHT000021	-2.8132	0.1164	-1.3172	5.9922e-01	4.1000e+00
149	IHT000022	92.0786	94.4223	93.2622	4.8874e-01	4.2047e+00
150	IHT000023	103.9739	106.7083	105.1418	5.2272e-01	4.2327e+00
151	IHT000024	69.1820	71.9163	70.3929	4.8488e-01	4.1600e+00
152	IHT000025	103.9626	106.8923	105.3102	5.4996e-01	4.2331e+00
153	IHT000026	104.7401	107.6698	106.0721	5.9541e-01	4.2350e+00
154	IHT000027	89.6034	92.3377	90.8416	5.7671e-01	4.1994e+00
155	IHT000028	91.3349	93.8739	92.3896	5.9189e-01	4.2028e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0105	107.1590	105.9442	5.9750e-01	4.2347e+00
157	IHT000030	107.2078	109.5515	108.1610	5.7404e-01	4.2403e+00
158	IHT000031	105.6415	107.9853	106.5947	6.1338e-01	4.2363e+00
159	IHT000032	106.9373	109.0858	107.8983	6.1364e-01	4.2396e+00
160	IHT000033	106.7646	109.1083	107.8349	6.2420e-01	4.2394e+00
161	IHT000034	93.7425	95.6956	94.6058	5.0237e-01	4.2077e+00
162	IHT000035	123.9183	126.0667	124.8168	5.0686e-01	4.2858e+00
163	IHT000036	92.2138	94.5575	93.2568	5.1238e-01	4.2047e+00

Velocity 1 = 0.003700 (ft/sec)
 Velocity 2 = 0.007400 (ft/sec)
 Pressure Drop = 0.031100 (psi)
 Tsat in = 0.070099 (deg F) Tsat out = 0.090210 (deg F)
 Phi inner = 0.854500 (kBtu/hr-ft2) Phi outer = 0.360397 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0001	0.0001
1	TRF000002	0.1012	0.1209
2	TFM000001	0.1888	0.2166
3	TIN000001	0.1516	0.1754
4	TRV000001	0.3138	0.3590
5	TSR000001	3.3384	2.6210
6	TAO020136	0.0084	0.0113
7	TAO050136	0.7581	0.3596
8	TAO070136	0.4864	0.2222
9	TAO080136	1.4722	0.6135
10	TAO090136	0.3493	0.1364
11	TAO100136	0.2526	0.0978
12	TAO105136	0.4752	0.1803
13	TAO110136	76.7226	60.9276
14	TAO115136	0.3405	0.1272
15	TAO120136	0.0221	0.0078
16	TAO125136	0.0118	0.0069
17	TAO130136	0.0321	0.0114
18	TAO120048	5.7354	5.6479
19	TAO130048	2.9521	1.0128
20	TAO120224	0.0148	0.0055
21	TAO130224	0.0816	0.0319
22	TAO120312	0.6209	0.2205
23	TAO130312	0.5871	0.2131
24	TRT020000	0.1203	0.0617
25	TRT070000	0.1014	0.0409
26	TRT100000	1.0129	0.3660
27	TRT120000	19.7211	10.4348
28	TRT125000	4.9362	5.3926
29	TRT130000	0.0028	0.0010
30	EMPTY	0.0367	0.0920
31	TAF050136	0.1885	0.1324
32	TAF070136	0.2361	0.1418
33	TAF080136	1.6915	0.7088
34	TAF090136	3.2324	3.5997
35	TAF100136	1.8215	0.8896
36	TAF105136	1.2038	0.5682
37	TAF110136	1.3596	0.6222
38	TAF115136	1.0213	0.4519
39	TAF120136	0.0440	0.0164
40	TAF125136	0.1705	0.0691
41	TAF130136	0.2449	0.0958
42	TAF120048	1.7140	0.6924
43	TAF130048	0.2134	0.0776
44	TAF120224	0.2469	0.1112
45	TAF130224	0.2855	0.1250

#	Name	Abs Diff	%Diff
46	EMPTY	0.0046	0.0120
47	EMPTY	0.0734	0.1831
48	TAI130048	0.2092	0.0746
49	TAI130136	0.2740	0.0957
50	TAI130224	0.4049	0.1437
51	TAI130312	0.3158	0.1204
52	TRR130000	0.2811	0.2304
53	TSI000001	0.0084	0.0135
54	TSI000002	2.7410	3.7124
55	TSO000001	0.0392	0.0651
56	TSO000002	0.0847	0.1089
57	TAF020136	0.4164	0.3948
58	TAF120312	0.3950	0.1671
59	TAF130312	3.6575	1.4445
60	EMPTY	0.0762	1.7465
61	EMPTY	0.0598	1.3777
62	EMPTY	0.0431	0.9978
63	EMPTY	0.0291	0.6755
64	EMPTY	0.0044	0.2124
65	EMPTY	0.0007	0.0336
66	EMPTY	0.0027	0.1290
67	EMPTY	0.0060	0.2853
68	EMPTY	0.0086	0.4078
69	EMPTY	0.0110	0.5193
70	EMPTY	0.0122	0.5745
71	EMPTY	0.0134	0.6270
72	EMPTY	0.0147	0.6859
73	EMPTY	0.0158	0.7335
74	EMPTY	0.0158	0.7310
75	EMPTY	0.0161	0.7417
76	EMPTY	0.0161	0.7397
77	EMPTY	0.0157	0.7177
78	EMPTY	0.0148	0.6726
79	EMPTY	0.0139	0.6274
80	PAN020136	0.0031	0.0178
81	PAN050136	0.3967	1.1806
82	PAN070136	0.1190	0.5480
83	PAN080136	0.1358	1.0807
84	PAN090136	1.4435	17.8507
85	PAN100136	1.2024	11.7660
86	PAN105136	0.3205	6.7765
87	PAN110136	0.0336	0.8042
88	PAN115136	0.2670	5.3425
89	PAN120136	0.1053	2.5802
90	PAN125136	0.0290	0.7467
91	PAN130136	0.1251	3.0465
92	PAN120048	0.1205	1.0557
93	PAN130048	1.0666	30.3849
94	PAN120224	0.1679	2.3201
95	PAN130224	0.1785	2.6096
96	PAN120312	0.1724	1.9310
97	PAN130312	0.2014	2.9990
98	PAB000136	0.0476	0.1174
99	PAB100136	0.0513	0.1163
100	PAB125136	0.0668	0.1486

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0635	0.1571
102	PRV000001	0.0293	0.1491
103	PSR000001	0.0805	0.1799
104	PFM000001	0.0037	0.2260
105	PAN000136	0.8606	0.6608
106	PFM000002	0.0074	0.4580
107	EMPTY	0.0003	20.0000
108	EMPTY	0.0310	0.3100
109	EMPTY	0.0007	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0157	0.0153
113	VPW000002	0.0351	0.0294
114	VPW000003	0.0078	0.0053
115	VPW000004	0.0937	0.0891
116	VPW000005	0.0781	0.0558
117	VPW000006	0.1406	0.0950
118	IPW000001	12.1045	2.1808
119	IPW000002	20.2155	1.5641
120	IPW000003	11.5054	0.8715
121	IPW000004	2.8125	0.7368
122	IPW000005	0.2734	0.1079
123	IPW000006	1.6407	0.6250
124	EMPTY	0.0012	6.0914
125	EMPTY	0.0007	5.1471
126	EMPTY	0.0005	3.1447
127	EMPTY	0.0000	0.0000
128	IHT000001	0.0117	0.0090
129	IHT000002	0.0039	0.0029
130	IHT000003	0.0508	0.0381
131	IHT000004	0.1133	0.0860
132	IHT000005	0.1093	0.0840
133	IHT000006	0.0859	0.0687
134	IHT000007	0.0508	0.0385
135	IHT000008	0.0390	0.0299
136	IHT000009	0.0234	0.0179
137	IHT000010	0.1015	0.2579
138	IHT000011	0.1914	0.1460
139	IHT000012	0.1797	0.1395
140	IHT000013	0.0743	0.0807
141	IHT000014	0.0976	0.0761
142	IHT000015	0.0468	0.0489
143	IHT000016	0.0039	0.0044
144	IHT000017	0.0391	0.0366
145	IHT000018	0.0157	0.0145
146	IHT000019	0.0430	0.0411
147	IHT000020	0.0079	0.0074
148	IHT000021	0.0118	0.9039
149	IHT000022	0.0117	0.0125
150	IHT000023	0.0156	0.0148
151	IHT000024	0.0351	0.0498
152	IHT000025	0.0313	0.0297
153	IHT000026	0.0196	0.0185
154	IHT000027	0.0274	0.0302
155	IHT000028	0.0937	0.1015

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1055	0.0997
157	IHT000030	0.1094	0.1013
158	IHT000031	0.1094	0.1027
159	IHT000032	0.0938	0.0870
160	IHT000033	0.0625	0.0580
161	IHT000034	0.1563	0.1655
162	IHT000035	0.1993	0.1599
163	IHT000036	0.1524	0.1637

Velocity 1 = 3.4051 (ft/sec) (+/- 14.7580 %)
Velocity 2 = 3.3290 (ft/sec) (+/- 5.7766 %)
Pressure drop = -4.7864 (psi)
Tsat in = 268.1245 (deg F) Tsat out = 274.4053 (deg F)
Phi inner = 101.1641 (kBtu/hr-ft2) (+/- 1.4116 %)
Phi outer = 100.9578 (kBtu/hr-ft2) (+/- 1.5426 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	83.3996	83.8232	83.5436	1.7350e-01	1.9001e+00
1	TRF0000002	83.5252	84.1573	83.8329	1.2918e-01	1.9001e+00
2	TFM000001	87.4401	88.4898	87.9458	2.5936e-01	1.9002e+00
3	TIN000001	86.9973	87.4190	87.1806	1.2912e-01	1.9002e+00
4	TRV000001	87.7520	88.4860	88.0936	1.9261e-01	1.9002e+00
5	TSR000001	130.3257	132.2438	131.2246	5.2983e-01	1.9025e+00
6	TAO020136	72.8630	74.6725	73.6827	4.6726e-01	1.9000e+00
7	TAO050136	213.0646	214.3007	213.7329	2.8296e-01	1.9139e+00
8	TAO070136	223.3035	228.9276	225.4390	9.6030e-01	1.9162e+00
9	TAO080136	133.4003	135.1102	134.1396	3.3509e-01	1.9028e+00
10	TAO090136	258.3138	259.4279	258.9130	2.6872e-01	1.9239e+00
11	TAO100136	261.5568	263.4109	262.2412	4.2816e-01	1.9247e+00
12	TAO105136	268.2841	269.4878	268.7231	2.8422e-01	1.9264e+00
13	TAO110136	190.9881	208.4924	200.4266	3.7045e+00	1.9114e+00
14	TAO115136	271.0782	273.1083	272.0696	5.0551e-01	1.9273e+00
15	TAO120136	285.1337	286.1422	285.6269	1.8971e-01	1.9311e+00
16	TAO125136	164.4123	165.4996	164.9794	2.4682e-01	1.9061e+00
17	TAO130136	279.4313	280.5210	279.8608	2.6017e-01	1.9294e+00
18	TAO120048	109.7182	110.7500	110.1741	2.5182e-01	1.9011e+00
19	TAO130048	275.5790	276.4984	276.0145	1.9190e-01	1.9284e+00
20	TAO120224	282.5840	283.5926	283.1582	2.1825e-01	1.9304e+00
21	TAO130224	271.3044	272.6762	271.8622	3.1073e-01	1.9273e+00
22	TAO120312	275.8713	276.8849	276.4113	2.2650e-01	1.9285e+00
23	TAO130312	272.2268	273.0571	272.6675	1.9281e-01	1.9275e+00
24	TRT020000	194.4634	196.0176	195.2504	3.9444e-01	1.9105e+00
25	TRT070000	238.2822	239.5147	238.8835	2.7716e-01	1.9191e+00
26	TRT100000	266.2819	268.0363	267.3915	3.4415e-01	1.9261e+00
27	TRT120000	275.3937	276.6822	275.9808	2.5419e-01	1.9284e+00
28	TRT125000	95.8642	96.5926	96.1617	1.7354e-01	1.9005e+00
29	TRT130000	273.2855	273.9308	273.5454	1.7637e-01	1.9277e+00
30	EMPTY	39.3761	40.0646	39.7755	2.1655e-01	1.9011e+00
31	TAF050136	142.7799	144.2836	143.5716	3.6095e-01	1.9036e+00
32	TAF070136	168.4567	170.9101	169.7893	5.5189e-01	1.9067e+00
33	TAF080136	249.0549	250.9141	249.9338	4.4883e-01	1.9217e+00
34	TAF090136	93.8148	94.9639	94.4017	2.8981e-01	1.9004e+00
35	TAF100136	205.3120	207.5271	206.1926	4.5954e-01	1.9125e+00
36	TAF105136	210.7029	213.2678	211.7691	6.0797e-01	1.9135e+00
37	TAF110136	217.3607	219.6425	218.1009	4.5576e-01	1.9147e+00
38	TAF115136	224.2040	225.8158	224.8280	3.7423e-01	1.9161e+00
39	TAF120136	266.4738	268.3173	267.4006	4.0511e-01	1.9261e+00
40	TAF125136	237.2571	239.1245	238.1560	4.3222e-01	1.9190e+00
41	TAF130136	241.1812	243.1502	241.9521	4.2326e-01	1.9198e+00
42	TAF120048	224.3290	227.0987	225.6377	4.9954e-01	1.9162e+00
43	TAF130048	236.4146	238.2030	237.2555	4.0267e-01	1.9188e+00
44	TAF120224	225.7050	228.3576	226.4767	5.0419e-01	1.9164e+00
45	TAF130224	234.3385	235.9505	235.1067	3.6658e-01	1.9183e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1308	1.9202e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0555	1.0324e-01	1.9011e+00
48	TAI130048	275.9154	277.1124	276.5065	2.9528e-01	1.9285e+00
49	TAI130136	284.0597	285.2491	284.5883	2.5699e-01	1.9308e+00
50	TAI130224	280.1147	281.2192	280.7129	2.7596e-01	1.9297e+00
51	TAI130312	276.7604	278.3262	277.6429	3.2450e-01	1.9288e+00
52	TRR130000	84.2778	86.0616	85.2870	4.3681e-01	1.9002e+00
53	TSI000001	61.6625	62.4132	61.9777	2.1043e-01	1.9000e+00
54	TSI000002	74.8607	78.1377	76.1874	6.6572e-01	1.9000e+00
55	TSO000001	59.4815	60.4529	59.9803	2.0789e-01	1.9001e+00
56	TSO000002	76.6165	77.4651	76.9199	1.8929e-01	1.9000e+00
57	TAF020136	104.9265	106.9049	106.0076	4.1804e-01	1.9009e+00
58	TAF120312	221.4330	224.0974	222.7411	6.1540e-01	1.9157e+00
59	TAF130312	239.6658	241.7316	240.8804	5.0391e-01	1.9196e+00
60	EMPTY	4.0332	4.0527	4.0417	5.1078e-03	0.0000e+00
61	EMPTY	4.0137	4.0283	4.0206	3.1335e-03	0.0000e+00
62	EMPTY	3.9941	4.0039	4.0002	2.8862e-03	0.0000e+00
63	EMPTY	3.9844	3.9941	3.9912	2.6100e-03	0.0000e+00
64	EMPTY	1.9238	1.9287	1.9251	2.1635e-03	0.0000e+00
65	EMPTY	1.9336	1.9434	1.9393	2.0598e-03	0.0000e+00
66	EMPTY	1.9434	1.9531	1.9481	1.2041e-03	0.0000e+00
67	EMPTY	1.9580	1.9629	1.9590	1.9730e-03	0.0000e+00
68	EMPTY	1.9629	1.9678	1.9650	2.4484e-03	0.0000e+00
69	EMPTY	1.9678	1.9775	1.9755	2.6267e-03	0.0000e+00
70	EMPTY	1.9775	1.9873	1.9826	1.3811e-03	0.0000e+00
71	EMPTY	1.9971	2.0020	1.9972	6.9053e-04	0.0000e+00
72	EMPTY	1.9971	2.0068	2.0046	2.6488e-03	0.0000e+00
73	EMPTY	2.0117	2.0166	2.0165	6.9053e-04	0.0000e+00
74	EMPTY	2.0264	2.0264	2.0264	0.0000e+00	0.0000e+00
75	EMPTY	2.0361	2.0410	2.0362	6.9053e-04	0.0000e+00
76	EMPTY	2.0410	2.0459	2.0427	2.3365e-03	0.0000e+00
77	EMPTY	2.0557	2.0605	2.0558	6.9053e-04	0.0000e+00
78	EMPTY	2.0703	2.0801	2.0705	1.3811e-03	0.0000e+00
79	EMPTY	2.0850	2.0898	2.0854	1.4797e-03	0.0000e+00
80	PAN020136	-17.5387	-17.2335	-17.4288	7.0903e-02	8.7109e-01
81	PAN050136	-33.3736	-32.7633	-33.1265	1.5380e-01	1.6820e+00
82	PAN070136	-22.8233	-15.5754	-21.7979	1.4153e+00	8.7171e-01
83	PAN080136	-13.9558	-8.9204	-10.0694	9.6805e-01	8.7036e-01
84	PAN090136	-11.8783	-3.7911	-10.4913	2.0069e+00	8.7040e-01
85	PAN100136	-12.2670	-9.1390	-10.1979	1.0018e+00	8.7037e-01
86	PAN105136	-5.8709	-4.5739	-5.0348	2.3272e-01	8.7009e-01
87	PAN110136	-6.0777	-4.3230	-5.0218	3.3535e-01	8.7009e-01
88	PAN115136	-5.6523	-3.5924	-5.0740	3.2990e-01	8.7009e-01
89	PAN120136	-5.0698	-4.3068	-4.7249	1.5509e-01	8.7008e-01
90	PAN125136	-4.9642	-4.2775	-4.6880	1.1828e-01	8.7008e-01
91	PAN130136	-5.3881	-5.0066	-5.2233	8.2084e-02	8.7010e-01
92	PAN120048	-11.1138	-9.8168	-10.5554	1.9585e-01	8.7040e-01
93	PAN130048	-9.8945	-9.4368	-9.6931	1.0312e-01	8.7034e-01
94	PAN120224	-9.5425	-8.9322	-9.2740	1.5661e-01	8.7031e-01
95	PAN130224	-10.3772	-9.9958	-10.2063	8.3803e-02	8.7037e-01
96	PAN120312	-10.3685	-8.8426	-9.7657	3.3211e-01	8.7034e-01
97	PAN130312	-10.2174	-9.3782	-9.9382	1.3224e-01	8.7035e-01
98	PAB000136	40.4112	40.5943	40.5100	4.5645e-02	5.8878e-01
99	PAB100136	43.9386	44.1217	44.0228	4.6573e-02	5.9035e-01
100	PAB125136	44.8946	45.0320	44.9697	4.2138e-02	5.9080e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2028	40.3249	40.2492	5.9853e-02	7.5672e-01
102	PRV000001	19.4744	19.8406	19.6893	6.3165e-02	7.5161e-01
103	PSR000001	45.0597	45.3038	45.1720	4.1561e-02	7.5845e-01
104	PFM000001	1.5493	1.8240	1.7050	6.7328e-02	5.0002e-01
105	PAN000136	-133.6226	-131.3338	-132.5148	4.4440e-01	4.9311e+00
106	PFM000002	1.6105	1.6609	1.6277	1.2451e-02	2.0004e-01
107	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	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	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	102.2198	102.6104	102.3877	1.1168e-01	1.0166e+00
113	VPW000002	119.2421	119.6327	119.3788	1.0625e-01	1.0813e+00
114	VPW000003	147.0365	147.4271	147.2475	1.0320e-01	1.1986e+00
115	VPW000004	104.8640	105.6453	105.1805	1.4167e-01	1.0268e+00
116	VPW000005	139.6522	140.2381	139.9530	1.7739e-01	1.1667e+00
117	VPW000006	147.6750	148.0657	147.8820	1.3329e-01	1.2014e+00
118	IPW000001	543.5024	549.3595	545.9233	1.0103e+00	9.1766e+00
119	IPW000002	1304.2736	1310.1273	1307.0446	1.6297e+00	1.3124e+01
120	IPW000003	1327.9498	1333.7999	1330.9530	1.2588e+00	1.3273e+01
121	IPW000004	378.2395	380.6809	379.6458	4.1432e-01	3.6049e+00
122	IPW000005	252.5851	253.5616	252.9854	3.2250e-01	2.8274e+00
123	IPW000006	262.7329	264.1978	263.3187	3.4173e-01	2.8857e+00
124	EMPTY	-0.0244	-0.0098	-0.0155	3.6500e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0112	2.6562e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0115	3.5238e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0153	3.1211e-03	0.0000e+00
128	IHT000001	128.5231	130.8669	129.7731	5.1448e-01	4.3005e+00
129	IHT000002	132.1815	134.5252	133.5135	4.8116e-01	4.3119e+00
130	IHT000003	132.5045	134.6530	133.7505	4.9895e-01	4.3126e+00
131	IHT000004	130.6002	133.3346	131.8853	5.4117e-01	4.3069e+00
132	IHT000005	129.2668	131.4153	130.2316	4.5917e-01	4.3019e+00
133	IHT000006	123.9971	126.1456	125.0909	4.9284e-01	4.2866e+00
134	IHT000007	130.9946	133.3384	132.1509	5.0662e-01	4.3077e+00
135	IHT000008	129.7701	131.7233	130.7349	4.4888e-01	4.3034e+00
136	IHT000009	130.1495	132.4932	131.1924	5.2735e-01	4.3048e+00
137	IHT000010	-40.2982	-38.1498	-39.1498	5.6171e-01	4.1186e+00
138	IHT000011	130.1119	132.2603	131.2212	5.6557e-01	4.3049e+00
139	IHT000012	127.9222	130.0706	128.9730	5.2332e-01	4.2981e+00
140	IHT000013	91.0156	92.9688	92.1211	4.7287e-01	4.2022e+00
141	IHT000014	127.1710	129.7101	128.3467	5.0915e-01	4.2962e+00
142	IHT000015	94.6214	96.9651	95.8362	5.2391e-01	4.2105e+00
143	IHT000016	88.3263	90.6701	89.4826	4.8942e-01	4.1965e+00
144	IHT000017	106.2425	108.3909	107.3089	5.8555e-01	4.2381e+00
145	IHT000018	107.3543	109.8933	108.2684	6.2694e-01	4.2405e+00
146	IHT000019	103.4781	105.8218	104.5991	5.4649e-01	4.2313e+00
147	IHT000020	106.1974	108.7365	107.2794	5.5972e-01	4.2380e+00
148	IHT000021	-2.4226	0.5071	-1.2195	6.4399e-01	4.1000e+00
149	IHT000022	92.2739	94.8130	93.3169	5.2290e-01	4.2049e+00
150	IHT000023	104.1692	106.3176	105.2551	5.3693e-01	4.2329e+00
151	IHT000024	69.3773	71.7210	70.4280	5.0976e-01	4.1600e+00
152	IHT000025	104.5485	106.8923	105.3805	5.2469e-01	4.2333e+00
153	IHT000026	105.1307	107.6698	106.1463	5.7589e-01	4.2352e+00
154	IHT000027	89.7987	92.1424	90.9119	5.2237e-01	4.1996e+00
155	IHT000028	91.1396	93.8739	92.4716	5.7003e-01	4.2030e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0105	107.3543	106.0418	5.3531e-01	4.2349e+00
157	IHT000030	107.2078	109.3562	108.2742	5.4277e-01	4.2406e+00
158	IHT000031	105.6415	107.9853	106.7314	5.3538e-01	4.2366e+00
159	IHT000032	106.9373	109.2811	108.0545	5.7864e-01	4.2400e+00
160	IHT000033	106.9599	109.1083	108.0185	5.4260e-01	4.2399e+00
161	IHT000034	93.7425	96.0862	94.7112	5.2787e-01	4.2080e+00
162	IHT000035	123.7230	126.2620	124.8988	5.4030e-01	4.2860e+00
163	IHT000036	92.2138	94.5575	93.2529	5.0754e-01	4.2047e+00

Velocity 1 = 3.3998 (ft/sec) (+/- 14.8051 %)
 Velocity 2 = 3.3354 (ft/sec) (+/- 5.7560 %)
 Pressure drop = -4.7845 (psi)
 T_{sat} in = 267.6696 (deg F) T_{sat} out = 274.0264 (deg F)
 P_{hi} inner = 99.4046 (kBtu/hr-ft²) (+/- 1.4166 %)
 P_{hi} outer = 100.7603 (kBtu/hr-ft²) (+/- 1.5416 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft²)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	83.3996	84.0349	83.6876	1.9020e-01	1.9001e+00
1	TRF0000002	83.7360	84.1573	83.8919	1.3331e-01	1.9001e+00
2	TFM0000001	87.7547	88.5938	88.1140	1.8961e-01	1.9002e+00
3	TIN0000001	87.1029	87.7344	87.3997	1.4062e-01	1.9002e+00
4	TRV0000001	87.9610	88.6949	88.3912	1.9421e-01	1.9002e+00
5	TSR0000001	131.5373	134.0605	132.8925	6.8339e-01	1.9027e+00
6	TAO020136	73.8208	74.9911	74.3979	2.9321e-01	1.9000e+00
7	TAO050136	212.8744	213.9225	213.4183	2.9428e-01	1.9138e+00
8	TAO070136	221.6788	225.6885	224.3742	9.1667e-01	1.9160e+00
9	TAO080136	133.5040	137.0191	135.9289	9.5265e-01	1.9029e+00
10	TAO090136	258.7779	259.8922	259.2549	2.6121e-01	1.9240e+00
11	TAO100136	261.9278	263.5041	262.5641	3.9350e-01	1.9248e+00
12	TAO105136	268.0062	269.3957	268.7974	3.0468e-01	1.9264e+00
13	TAO110136	143.4235	164.4690	151.6219	4.7696e+00	1.9045e+00
14	TAO115136	270.4317	273.0175	271.7007	5.3507e-01	1.9272e+00
15	TAO120136	285.2254	286.2342	285.6602	1.8604e-01	1.9311e+00
16	TAO125136	165.3012	166.1896	165.7061	2.1126e-01	1.9062e+00
17	TAO130136	279.4318	280.3401	279.9928	2.1050e-01	1.9295e+00
18	TAO120048	109.2038	110.2355	109.7747	2.6130e-01	1.9011e+00
19	TAO130048	275.8545	276.5897	276.1068	1.8458e-01	1.9284e+00
20	TAO120224	282.7675	283.8668	283.2795	2.5800e-01	1.9304e+00
21	TAO130224	271.4876	272.9486	272.0462	3.3386e-01	1.9273e+00
22	TAO120312	275.7792	277.2540	276.5627	3.4034e-01	1.9285e+00
23	TAO130312	272.5959	273.5159	272.9623	1.7907e-01	1.9276e+00
24	TRT020000	194.4639	196.0171	195.1768	3.3840e-01	1.9105e+00
25	TRT070000	238.7566	239.9881	239.3267	2.8281e-01	1.9192e+00
26	TRT100000	266.9286	268.4045	267.5028	3.3199e-01	1.9261e+00
27	TRT120000	275.7621	276.8660	276.3710	2.5681e-01	1.9285e+00
28	TRT125000	93.9975	94.9339	94.5621	1.9739e-01	1.9004e+00
29	TRT130000	273.2855	274.0235	273.7041	1.5929e-01	1.9278e+00
30	EMPTY	39.3761	40.2940	39.8168	2.2159e-01	1.9011e+00
31	TAF050136	143.2815	145.0837	144.1328	4.4055e-01	1.9037e+00
32	TAF070136	169.1439	172.0849	170.4331	6.1918e-01	1.9068e+00
33	TAF080136	248.9654	251.2829	250.4728	4.8742e-01	1.9218e+00
34	TAF090136	92.8755	93.9215	93.4173	2.6159e-01	1.9004e+00
35	TAF100136	205.5047	208.0077	206.4662	5.1258e-01	1.9125e+00
36	TAF105136	211.2757	213.3640	212.0627	4.6555e-01	1.9135e+00
37	TAF110136	217.2678	219.2610	218.2841	4.0186e-01	1.9148e+00
38	TAF115136	224.3961	226.0040	225.0672	3.6429e-01	1.9161e+00
39	TAF120136	266.5684	268.4082	267.4714	3.7455e-01	1.9261e+00
40	TAF125136	237.7255	239.7815	238.5678	4.9604e-01	1.9190e+00
41	TAF130136	241.4631	243.0563	242.3574	3.3185e-01	1.9199e+00
42	TAF120048	224.7107	227.5756	225.7979	5.4530e-01	1.9163e+00
43	TAF130048	236.6025	238.7673	237.5232	4.3759e-01	1.9188e+00
44	TAF120224	225.6104	228.3576	226.8560	5.7020e-01	1.9165e+00
45	TAF130224	234.6232	236.3296	235.3760	3.7270e-01	1.9183e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0940	1.8043e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0463	9.0838e-02	1.9011e+00
48	TAI130048	276.0075	277.2963	276.5473	3.0886e-01	1.9285e+00
49	TAI130136	284.1513	285.0664	284.6365	2.0922e-01	1.9308e+00
50	TAI130224	280.0224	281.4029	280.6357	2.8305e-01	1.9297e+00
51	TAI130312	277.0367	278.4190	277.7610	2.8592e-01	1.9289e+00
52	TRR130000	82.0742	83.3342	82.6656	2.6405e-01	1.9001e+00
53	TSI000001	61.9838	62.6271	62.2436	1.6790e-01	1.9000e+00
54	TSI000002	74.5423	76.0266	75.3079	3.5747e-01	1.9000e+00
55	TSO000001	59.4815	60.3449	59.8851	2.0322e-01	1.9001e+00
56	TSO000002	76.5105	77.2538	76.8990	1.9826e-01	1.9000e+00
57	TAF020136	104.9262	107.1128	106.0656	4.9357e-01	1.9009e+00
58	TAF120312	221.6238	224.4786	222.9430	6.0727e-01	1.9157e+00
59	TAF130312	240.2295	242.5752	241.4289	5.3396e-01	1.9197e+00
60	EMPTY	4.0430	4.0625	4.0516	4.6855e-03	0.0000e+00
61	EMPTY	4.0186	4.0381	4.0299	3.6165e-03	0.0000e+00
62	EMPTY	3.9990	4.0137	4.0095	4.0685e-03	0.0000e+00
63	EMPTY	3.9941	4.0039	3.9996	3.5072e-03	0.0000e+00
64	EMPTY	1.9287	1.9336	1.9323	2.1635e-03	0.0000e+00
65	EMPTY	1.9434	1.9482	1.9469	2.2146e-03	0.0000e+00
66	EMPTY	1.9531	1.9580	1.9543	2.1065e-03	0.0000e+00
67	EMPTY	1.9629	1.9678	1.9660	2.3675e-03	0.0000e+00
68	EMPTY	1.9678	1.9727	1.9719	1.8082e-03	0.0000e+00
69	EMPTY	1.9775	1.9873	1.9824	1.3951e-03	0.0000e+00
70	EMPTY	1.9824	1.9971	1.9893	2.7902e-03	0.0000e+00
71	EMPTY	2.0020	2.0068	2.0042	2.4583e-03	0.0000e+00
72	EMPTY	2.0068	2.0215	2.0112	2.4662e-03	0.0000e+00
73	EMPTY	2.0215	2.0264	2.0232	2.3675e-03	0.0000e+00
74	EMPTY	2.0313	2.0361	2.0317	1.4797e-03	0.0000e+00
75	EMPTY	2.0410	2.0459	2.0427	2.3365e-03	0.0000e+00
76	EMPTY	2.0459	2.0557	2.0501	1.9754e-03	0.0000e+00
77	EMPTY	2.0557	2.0654	2.0612	2.2080e-03	0.0000e+00
78	EMPTY	2.0752	2.0801	2.0770	2.3675e-03	0.0000e+00
79	EMPTY	2.0850	2.0947	2.0935	2.3778e-03	0.0000e+00
80	PAN020136	-17.5387	-17.2335	-17.4029	7.5966e-02	8.7109e-01
81	PAN050136	-33.8314	-33.0685	-33.3035	1.6944e-01	1.6821e+00
82	PAN070136	-22.0604	-14.8888	-20.8855	1.5757e+00	8.7157e-01
83	PAN080136	-13.9558	-9.5307	-10.5363	1.0313e+00	8.7040e-01
84	PAN090136	-13.1753	-3.7148	-10.4913	2.4258e+00	8.7040e-01
85	PAN100136	-12.2670	-9.2153	-10.1018	9.6257e-01	8.7037e-01
86	PAN105136	-5.4132	-4.5739	-5.0683	2.1035e-01	8.7009e-01
87	PAN110136	-6.0014	-4.4756	-5.0432	2.7277e-01	8.7009e-01
88	PAN115136	-6.1101	-4.5079	-5.2190	2.6314e-01	8.7010e-01
89	PAN120136	-4.9935	-4.2305	-4.6257	1.9109e-01	8.7008e-01
90	PAN125136	-4.9642	-4.2775	-4.6056	1.3808e-01	8.7008e-01
91	PAN130136	-5.3881	-5.0829	-5.2203	8.1562e-02	8.7010e-01
92	PAN120048	-11.0375	-10.1220	-10.6057	1.8663e-01	8.7040e-01
93	PAN130048	-9.8945	-9.2079	-9.6580	1.2640e-01	8.7033e-01
94	PAN120224	-9.6188	-8.1692	-9.2251	2.6310e-01	8.7031e-01
95	PAN130224	-10.3772	-9.9958	-10.1743	1.0295e-01	8.7037e-01
96	PAN120312	-13.6491	-7.7745	-9.6849	9.7155e-01	8.7034e-01
97	PAN130312	-10.1411	-9.5308	-9.8756	1.2450e-01	8.7035e-01
98	PAB000136	40.0908	40.3654	40.2024	5.7873e-02	5.8864e-01
99	PAB100136	43.6640	43.8928	43.7491	5.8498e-02	5.9022e-01
100	PAB125136	44.5742	44.8031	44.6896	5.6437e-02	5.9066e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8366	40.0808	39.9172	7.6452e-02	7.5661e-01
102	PRV000001	19.7186	19.8406	19.7259	2.9284e-02	7.5162e-01
103	PSR000001	44.6935	44.9376	44.8619	7.7558e-02	7.5834e-01
104	PFM000001	1.5493	1.8240	1.6995	7.5723e-02	5.0002e-01
105	PAN000136	-133.6226	-131.3338	-132.4599	5.2487e-01	4.9311e+00
106	PFM000002	1.5938	1.6777	1.6340	1.5535e-02	2.0004e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	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	102.2198	102.4151	102.2979	9.6655e-02	1.0163e+00
113	VPW000002	119.2421	119.6327	119.3553	1.1223e-01	1.0812e+00
114	VPW000003	147.0365	147.4271	147.2358	1.0799e-01	1.1985e+00
115	VPW000004	105.0593	105.4500	105.2234	9.9512e-02	1.0270e+00
116	VPW000005	139.6522	140.0428	139.8905	1.2658e-01	1.1664e+00
117	VPW000006	147.2844	147.8703	147.5695	1.4342e-01	1.2000e+00
118	IPW000001	564.9782	570.8353	569.0781	1.3230e+00	9.2640e+00
119	IPW000002	1275.0045	1282.8096	1278.9458	1.5006e+00	1.2950e+01
120	IPW000003	1302.5999	1310.3999	1306.4998	1.5758e+00	1.3120e+01
121	IPW000004	383.6106	385.0755	384.4310	3.6165e-01	3.6364e+00
122	IPW000005	252.5851	253.5616	252.9756	2.4161e-01	2.8274e+00
123	IPW000006	259.3149	261.2681	260.6917	3.5141e-01	2.8708e+00
124	EMPTY	-0.0244	-0.0098	-0.0182	3.9508e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0116	2.7709e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0125	3.9656e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0147	3.6232e-03	0.0000e+00
128	IHT000001	128.7184	131.0622	129.7301	5.9016e-01	4.3003e+00
129	IHT000002	132.3768	134.9158	133.4823	5.7536e-01	4.3118e+00
130	IHT000003	132.5045	135.0436	133.7115	5.4203e-01	4.3125e+00
131	IHT000004	130.6002	132.9440	131.8736	5.4138e-01	4.3069e+00
132	IHT000005	129.0715	131.4153	130.1847	5.1637e-01	4.3017e+00
133	IHT000006	123.8018	126.3409	125.0635	5.1024e-01	4.2865e+00
134	IHT000007	130.7993	133.5337	132.0884	5.0223e-01	4.3075e+00
135	IHT000008	129.3795	131.7233	130.6529	4.7554e-01	4.3031e+00
136	IHT000009	129.9542	132.2979	131.1963	5.1864e-01	4.3048e+00
137	IHT000010	-40.1029	-37.5639	-39.1263	5.6082e-01	4.1186e+00
138	IHT000011	129.9166	132.2603	130.9673	5.2481e-01	4.3041e+00
139	IHT000012	127.7269	129.8753	128.7152	4.9820e-01	4.2973e+00
140	IHT000013	91.2109	93.1641	92.1797	4.4110e-01	4.2023e+00
141	IHT000014	127.3663	129.3194	128.3389	4.5075e-01	4.2962e+00
142	IHT000015	95.0120	96.7698	95.8909	4.7227e-01	4.2106e+00
143	IHT000016	88.3263	90.4747	89.4943	4.8083e-01	4.1965e+00
144	IHT000017	105.2659	108.3909	107.0003	7.7889e-01	4.2373e+00
145	IHT000018	106.7683	109.6980	108.2528	6.4958e-01	4.2405e+00
146	IHT000019	103.4781	105.8218	104.5991	5.1268e-01	4.2313e+00
147	IHT000020	106.1974	108.5412	107.2091	5.1703e-01	4.2379e+00
148	IHT000021	-2.4226	0.3118	-1.2781	6.2516e-01	4.1000e+00
149	IHT000022	92.2739	94.4223	93.2309	5.0724e-01	4.2047e+00
150	IHT000023	104.1692	106.5129	105.1613	5.2176e-01	4.2327e+00
151	IHT000024	69.1820	71.7210	70.3577	4.7431e-01	4.1599e+00
152	IHT000025	104.1579	106.6970	105.3454	5.1273e-01	4.2332e+00
153	IHT000026	104.7401	107.6698	106.0448	5.1515e-01	4.2349e+00
154	IHT000027	89.7987	92.5330	90.8612	5.3403e-01	4.1995e+00
155	IHT000028	91.1396	94.4599	92.4326	6.3121e-01	4.2029e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8152	108.1355	106.0223	6.2352e-01	4.2349e+00
157	IHT000030	107.2078	110.3328	108.2117	6.1385e-01	4.2404e+00
158	IHT000031	105.6415	109.1572	106.6845	6.0696e-01	4.2365e+00
159	IHT000032	106.9373	110.2576	108.0428	6.0568e-01	4.2400e+00
160	IHT000033	106.9599	110.0849	107.9756	5.9189e-01	4.2398e+00
161	IHT000034	93.7425	95.8909	94.7268	4.6515e-01	4.2080e+00
162	IHT000035	123.9183	126.0667	124.8480	4.5942e-01	4.2859e+00
163	IHT000036	92.2138	94.3622	93.3349	4.5645e-01	4.2049e+00

Velocity 1 = 0.005300 (ft/sec)

Velocity 2 = 0.006400 (ft/sec)

Pressure Drop = 0.001900 (psi)

Tsat in = 0.454926 (deg F) Tsat out = 0.378906 (deg F)

Phi inner = 1.759499 (kBtu/hr-ft2) Phi outer = 0.197502 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1440	0.1724
1	TRF000002	0.0590	0.0704
2	TFM000001	0.1682	0.1913
3	TIN000001	0.2191	0.2513
4	TRV000001	0.2976	0.3378
5	TSR000001	1.6679	1.2710
6	TAO020136	0.7152	0.9707
7	TAO050136	0.3146	0.1472
8	TAO070136	1.0648	0.4723
9	TAO080136	1.7893	1.3339
10	TAO090136	0.3419	0.1321
11	TAO100136	0.3229	0.1231
12	TAO105136	0.0743	0.0276
13	TAO110136	48.8047	24.3504
14	TAO115136	0.3689	0.1356
15	TAO120136	0.0333	0.0117
16	TAO125136	0.7267	0.4405
17	TAO130136	0.1320	0.0472
18	TAO120048	0.3994	0.3625
19	TAO130048	0.0923	0.0334
20	TAO120224	0.1213	0.0428
21	TAO130224	0.1840	0.0677
22	TAO120312	0.1514	0.0548
23	TAO130312	0.2948	0.1081
24	TRT020000	0.0736	0.0377
25	TRT070000	0.4432	0.1855
26	TRT100000	0.1113	0.0416
27	TRT12C000	0.3902	0.1414
28	TRT125000	1.5996	1.6634
29	TRT130000	0.1587	0.0580
30	EMPTY	0.0413	0.1038
31	TAF050136	0.5612	0.3909
32	TAF070136	0.6438	0.3792
33	TAF080136	0.5390	0.2157
34	TAF090136	0.9844	1.0428
35	TAF100136	0.2736	0.1327
36	TAF105136	0.2936	0.1386
37	TAF110136	0.1832	0.0840
38	TAF115136	0.2392	0.1064
39	TAF120136	0.0708	0.0265
40	TAF125136	0.4118	0.1729
41	TAF130136	0.4053	0.1675
42	TAF120048	0.1602	0.0710
43	TAF130048	0.2677	0.1128
44	TAF120224	0.3793	0.1675
45	TAF130224	0.2693	0.1145

#	Name	Abs Diff	%Diff
46	EMPTY	0.0368	0.0965
47	EMPTY	0.0092	0.0230
48	TAI130048	0.0408	0.0148
49	TAI130136	0.0482	0.0169
50	TAI130224	0.0772	0.0275
51	TAI130312	0.1181	0.0425
52	TRR130000	2.6214	3.0736
53	TSI000001	0.2659	0.4290
54	TSI000002	0.8795	1.1544
55	TSO000001	0.0952	0.1587
56	TSO000002	0.0209	0.0272
57	TAF020136	0.0580	0.0547
58	TAF120312	0.2019	0.0906
59	TAF130312	0.5485	0.2277
60	EMPTY	0.0099	0.2449
61	EMPTY	0.0093	0.2313
62	EMPTY	0.0093	0.2325
63	EMPTY	0.0084	0.2105
64	EMPTY	0.0072	0.3740
65	EMPTY	0.0076	0.3919
66	EMPTY	0.0062	0.3183
67	EMPTY	0.0070	0.3573
68	EMPTY	0.0069	0.3511
69	EMPTY	0.0069	0.3493
70	EMPTY	0.0067	0.3379
71	EMPTY	0.0070	0.3505
72	EMPTY	0.0066	0.3292
73	EMPTY	0.0067	0.3323
74	EMPTY	0.0053	0.2615
75	EMPTY	0.0065	0.3192
76	EMPTY	0.0074	0.3623
77	EMPTY	0.0054	0.2627
78	EMPTY	0.0065	0.3139
79	EMPTY	0.0081	0.3884
80	PAN020136	0.0259	0.1486
81	PAN050136	0.1770	0.5343
82	PAN070136	0.9124	4.1857
83	PAN080136	0.4669	4.6368
84	PAN090136	0.0000	0.0000
85	PAN100136	0.0961	0.9423
86	PAN105136	0.0335	0.6654
87	PAN110136	0.0214	0.4261
88	PAN115136	0.1450	2.8577
89	PAN120136	0.0992	2.0995
90	PAN125136	0.0824	1.7577
91	PAN130136	0.0030	0.0574
92	PAN120048	0.0503	0.4765
93	PAN130048	0.0351	0.3621
94	PAN120224	0.0489	0.5273
95	PAN130224	0.0320	0.3135
96	PAN120312	0.0808	0.8274
97	PAN130312	0.0626	0.6299
98	PAB000136	0.3076	0.7593
99	PAB100136	0.2737	0.6217
100	PAB125136	0.2801	0.6229

#	Name	Abs Diff	%Diff
101	PIN000001	0.3320	0.8249
102	PRV000001	0.0366	0.1859
103	PSR000001	0.3101	0.6865
104	PFM000001	0.0055	0.3226
105	PAN000136	0.0549	0.0414
106	PFM000002	0.0063	0.3870
107	EMPTY	0.0001	2.1277
108	EMPTY	0.0000	0.0000
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0898	0.0877
113	VPW000002	0.0235	0.0197
114	VPW000003	0.0117	0.0079
115	VPW000004	0.0429	0.0408
116	VPW000005	0.0625	0.0447
117	VPW000006	0.3125	0.2113
118	IPW000001	23.1548	4.2414
119	IPW000002	28.0988	2.1498
120	IPW000003	24.4532	1.8373
121	IPW000004	4.7852	1.2604
122	IPW000005	0.0098	0.0039
123	IPW000006	2.6270	0.9976
124	EMPTY	0.0027	17.4194
125	EMPTY	0.0004	3.5714
126	EMPTY	0.0010	8.6957
127	EMPTY	0.0006	3.9216
128	IHT000001	0.0430	0.0331
129	IHT000002	0.0312	0.0234
130	IHT000003	0.0390	0.0292
131	IHT000004	0.0117	0.0089
132	IHT000005	0.0469	0.0360
133	IHT000006	0.0274	0.0219
134	IHT000007	0.0625	0.0473
135	IHT000008	0.0820	0.0627
136	IHT000009	0.0039	0.0030
137	IHT000010	0.0235	0.0600
138	IHT000011	0.2539	0.1935
139	IHT000012	0.2578	0.1999
140	IHT000013	0.0586	0.0636
141	IHT000014	0.0078	0.0061
142	IHT000015	0.0547	0.0571
143	IHT000016	0.0117	0.0131
144	IHT000017	0.3086	0.2876
145	IHT000018	0.0156	0.0144
146	IHT000019	0.0000	0.0000
147	IHT000020	0.0703	0.0655
148	IHT000021	0.0586	4.8053
149	IHT000022	0.0860	0.0922
150	IHT000023	0.0938	0.0891
151	IHT000024	0.0703	0.0998
152	IHT000025	0.0351	0.0333
153	IHT000026	0.1015	0.0956
154	IHT000027	0.0507	0.0558
155	IHT000028	0.0390	0.0422

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0195	0.0184
157	IHT000030	0.0625	0.0577
158	IHT000031	0.0469	0.0439
159	IHT000032	0.0117	0.0108
160	IHT000033	0.0429	0.0397
161	IHT000034	0.0156	0.0165
162	IHT000035	0.0508	0.0407
163	IHT000036	0.0820	0.0879

Velocity 1 = 3.5617 (ft/sec) (+/- 13.4748 %)
Velocity 2 = 3.5346 (ft/sec) (+/- 5.1672 %)
Pressure drop = -4.7587 (psi)
Tsats in = 267.5282 (deg F) Tsats out = 273.8388 (deg F)
Phi inner = 100.7997 (kBtu/hr-ft2) (+/- 1.4126 %)
Phi outer = 100.8296 (kBtu/hr-ft2) (+/- 1.5430 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	83.3996	84.0349	83.7215	1.9249e-01	1.9001e+00
1	TRF0000002	83.7360	84.1573	83.9214	1.3215e-01	1.9001e+00
2	TFM0000001	87.7547	88.5953	88.2252	1.7766e-01	1.9002e+00
3	TIN0000001	87.3129	87.8400	87.4902	1.4344e-01	1.9002e+00
4	TRV0000001	88.0660	88.8004	88.5021	1.9320e-01	1.9002e+00
5	TSR0000001	132.9500	134.6649	133.7338	4.0899e-01	1.9027e+00
6	TAO020136	74.2469	75.8419	74.8849	3.3143e-01	1.9000e+00
7	TAO050136	207.3513	208.5921	208.0726	2.7858e-01	1.9128e+00
8	TAO070136	215.8358	218.8084	216.8949	6.4538e-01	1.9145e+00
9	TAO080136	134.9092	136.1189	135.3852	2.6586e-01	1.9029e+00
10	TAO090136	253.0157	254.0420	253.5568	2.2762e-01	1.9226e+00
11	TAO100136	254.3141	255.8971	255.0441	4.4463e-01	1.9229e+00
12	TAO105136	260.9536	262.6270	261.6975	3.6324e-01	1.9246e+00
13	TAO110136	-77.8075	-28.6697	-58.9464	1.4727e+01	1.9112e+00
14	TAO115136	264.5089	266.6403	265.3618	3.9658e-01	1.9255e+00
15	TAO120136	279.9043	280.9157	280.3753	1.7479e-01	1.9296e+00
16	TAO125136	162.5358	163.6251	162.9480	2.6916e-01	1.9058e+00
17	TAO130136	273.0834	274.3586	273.6892	2.7162e-01	1.9277e+00
18	TAO120048	109.2025	110.3386	109.8098	3.1240e-01	1.9011e+00
19	TAO130048	268.9636	269.7954	269.2562	1.7030e-01	1.9266e+00
20	TAO120224	276.8933	278.1818	277.3096	2.5575e-01	1.9287e+00
21	TAO130224	264.6220	266.3676	265.4367	3.9776e-01	1.9256e+00
22	TAO120312	269.5952	271.3524	270.4611	3.6113e-01	1.9269e+00
23	TAO130312	265.7767	266.5179	266.1766	1.8454e-01	1.9258e+00
24	TRT020000	190.5723	191.9360	191.3713	3.0792e-01	1.9099e+00
25	TRT070000	232.7730	234.2944	233.4236	3.0512e-01	1.9179e+00
26	TRT100000	260.2739	261.4793	260.8005	2.8603e-01	1.9244e+00
27	TRT120000	269.4977	270.5127	270.0481	2.3305e-01	1.9268e+00
28	TRT125000	94.9319	95.7657	95.2780	2.0004e-01	1.9004e+00
29	TRT130000	265.5475	268.5924	267.4853	8.5953e-01	1.9261e+00
30	EMPTY	39.6057	40.2940	39.8765	2.1088e-01	1.9011e+00
31	TAF050136	140.7754	142.1823	141.5113	3.4952e-01	1.9034e+00
32	TAF070136	165.4125	167.7708	166.6249	5.2367e-01	1.9063e+00
33	TAF080136	234.5141	248.9649	242.1482	3.8470e+00	1.9199e+00
34	TAF090136	92.6667	94.0252	93.5406	2.7479e-01	1.9004e+00
35	TAF100136	199.9061	202.9983	200.9901	6.4202e-01	1.9115e+00
36	TAF105136	205.4663	207.6638	206.2280	4.6786e-01	1.9125e+00
37	TAF110136	211.6470	214.2223	212.3267	4.8147e-01	1.9136e+00
38	TAF115136	217.8433	220.5061	218.9586	4.8148e-01	1.9149e+00
39	TAF120136	260.4796	262.8820	261.7038	4.6750e-01	1.9246e+00
40	TAF125136	230.4218	232.9560	231.3587	5.2236e-01	1.9175e+00
41	TAF130136	234.2324	235.6427	234.8336	3.8281e-01	1.9182e+00
42	TAF120048	217.7193	220.7871	219.3614	5.4153e-01	1.9150e+00
43	TAF130048	229.8086	232.1723	230.5161	4.8633e-01	1.9173e+00
44	TAF120224	219.5335	221.5318	220.5536	5.0734e-01	1.9152e+00
45	TAF130224	227.9675	230.2525	228.6115	4.5010e-01	1.9169e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1675	1.7875e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	40.0279	1.4921e-01	1.9011e+00
48	TAI130048	271.0327	272.9689	272.0693	4.0037e-01	1.9273e+00
49	TAI130136	278.4771	279.5794	278.8998	2.4934e-01	1.9292e+00
50	TAI130224	273.8426	275.1362	274.5561	3.0333e-01	1.9280e+00
51	TAI130312	270.5777	272.1494	271.5353	3.3866e-01	1.9272e+00
52	TRR130000	72.0569	73.4320	72.7118	3.3437e-01	1.9000e+00
53	TSI000001	61.5558	62.5204	61.9849	2.0327e-01	1.9000e+00
54	TSI000002	74.0129	75.7095	74.8062	3.9662e-01	1.9000e+00
55	TSO000001	59.3729	60.2370	59.8137	2.4073e-01	1.9001e+00
56	TSO000002	75.8743	76.7240	76.2950	1.9415e-01	1.9000e+00
57	TAF020136	104.6130	106.0717	105.3133	3.7836e-01	1.9008e+00
58	TAF120312	215.9959	218.3831	216.8787	6.3336e-01	1.9145e+00
59	TAF130312	232.9845	235.2474	234.2862	5.8986e-01	1.9181e+00
60	EMPTY	3.8574	3.8770	3.8679	4.5217e-03	0.0000e+00
61	EMPTY	3.8428	3.8525	3.8489	3.5307e-03	0.0000e+00
62	EMPTY	3.8281	3.8330	3.8307	2.4642e-03	0.0000e+00
63	EMPTY	3.8184	3.8281	3.8224	2.1364e-03	0.0000e+00
64	EMPTY	1.8506	1.8555	1.8543	2.1065e-03	0.0000e+00
65	EMPTY	1.8652	1.8750	1.8701	9.8648e-04	0.0000e+00
66	EMPTY	1.8750	1.8799	1.8796	1.1714e-03	0.0000e+00
67	EMPTY	1.8848	1.8945	1.8899	1.5314e-03	0.0000e+00
68	EMPTY	1.8945	1.8994	1.8982	2.1065e-03	0.0000e+00
69	EMPTY	1.8994	1.9092	1.9088	1.9331e-03	0.0000e+00
70	EMPTY	1.9141	1.9189	1.9165	2.4662e-03	0.0000e+00
71	EMPTY	1.9287	1.9434	1.9330	2.5420e-03	0.0000e+00
72	EMPTY	1.9385	1.9434	1.9386	6.9053e-04	0.0000e+00
73	EMPTY	1.9482	1.9580	1.9530	1.2041e-03	0.0000e+00
74	EMPTY	1.9580	1.9629	1.9615	2.2146e-03	0.0000e+00
75	EMPTY	1.9727	1.9775	1.9728	6.9053e-04	0.0000e+00
76	EMPTY	1.9775	1.9824	1.9799	2.4642e-03	0.0000e+00
77	EMPTY	1.9922	1.9922	1.9922	0.0000e+00	0.0000e+00
78	EMPTY	2.0068	2.0117	2.0073	1.4797e-03	0.0000e+00
79	EMPTY	2.0215	2.0313	2.0262	1.3811e-03	0.0000e+00
80	PAN020136	-17.3098	-17.0046	-17.1893	8.5944e-02	8.7106e-01
81	PAN050136	-32.9159	-32.3055	-32.5985	1.5971e-01	1.6820e+00
82	PAN070136	-22.3656	-16.7198	-21.6484	1.1591e+00	8.7168e-01
83	PAN080136	-13.8032	-9.1493	-10.0724	1.1118e+00	8.7036e-01
84	PAN090136	-11.4205	-3.4097	-10.4958	1.7805e+00	8.7040e-01
85	PAN100136	-12.1908	-9.4442	-10.3673	7.3474e-01	8.7039e-01
86	PAN105136	-5.4895	-3.8873	-4.8822	3.3592e-01	8.7009e-01
87	PAN110136	-5.7726	-4.2467	-4.9913	3.2863e-01	8.7009e-01
88	PAN115136	-6.4152	-4.5842	-5.1579	3.8910e-01	8.7010e-01
89	PAN120136	-5.2987	-2.7810	-4.6654	4.5575e-01	8.7008e-01
90	PAN125136	-4.8116	-3.9724	-4.4317	1.9829e-01	8.7007e-01
91	PAN130136	-5.5407	-4.9304	-5.2844	1.1302e-01	8.7010e-01
92	PAN120048	-11.4190	-8.3672	-10.3936	5.4237e-01	8.7039e-01
93	PAN130048	-9.8183	-8.9027	-9.5451	1.8047e-01	8.7033e-01
94	PAN120224	-9.6951	-8.3218	-9.1732	2.9663e-01	8.7030e-01
95	PAN130224	-10.5298	-9.6143	-10.1529	1.6487e-01	8.7037e-01
96	PAN120312	-10.2922	-9.4529	-9.7932	1.8638e-01	8.7034e-01
97	PAN130312	-10.2174	-9.3019	-9.7764	2.1150e-01	8.7034e-01
98	PAB000136	39.9992	40.1823	40.1072	4.6939e-02	5.8860e-01
99	PAB100136	43.4809	43.7097	43.6255	6.0192e-02	5.9017e-01
100	PAB125136	44.4369	44.6657	44.5513	5.2520e-02	5.9060e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7146	40.0808	39.9978	9.3715e-02	7.5664e-01
102	PRV000001	19.5965	19.8406	19.7283	4.1561e-02	7.5162e-01
103	PSR000001	44.6935	44.8156	44.7643	6.0861e-02	7.5830e-01
104	PFM000001	1.7324	2.0071	1.8698	7.2231e-02	5.0002e-01
105	PAN000136	-132.7071	-130.4183	-131.7458	5.0865e-01	4.9310e+00
106	PFM000002	1.7951	1.8790	1.8408	2.0351e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	0.0022	3.5854e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0021	2.6267e-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	101.8292	102.6104	102.3213	1.3229e-01	1.0164e+00
113	VPW000002	119.0467	119.6327	119.2967	1.0470e-01	1.0809e+00
114	VPW000003	147.0365	147.4271	147.2007	1.0705e-01	1.1984e+00
115	VPW000004	104.8640	105.6453	105.1492	1.3788e-01	1.0267e+00
116	VPW000005	139.4569	140.4334	139.9179	2.0790e-01	1.1666e+00
117	VPW000006	147.4797	148.0657	147.6749	1.6269e-01	1.2005e+00
118	IPW000001	543.5024	551.3118	546.6262	1.6735e+00	9.1792e+00
119	IPW000002	1296.4685	1306.2249	1301.1121	2.2608e+00	1.3087e+01
120	IPW000003	1324.0499	1329.8999	1326.3119	1.4400e+00	1.3244e+01
121	IPW000004	382.1458	383.1223	382.5755	3.0628e-01	3.6242e+00
122	IPW000005	253.0734	254.5381	253.8936	4.1193e-01	2.8325e+00
123	IPW000006	262.2446	263.7095	263.0062	4.0864e-01	2.8839e+00
124	EMPTY	-0.0244	-0.0098	-0.0186	4.1853e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0122	3.0003e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0148	3.6858e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0146	2.7902e-03	0.0000e+00
128	IHT000001	127.9372	131.6481	129.8239	6.6686e-01	4.3006e+00
129	IHT000002	131.5955	135.3065	133.5604	6.0799e-01	4.3121e+00
130	IHT000003	131.9186	135.2389	133.7896	5.8937e-01	4.3128e+00
131	IHT000004	130.0143	133.1393	131.9400	6.3627e-01	4.3071e+00
132	IHT000005	128.4856	131.8059	130.2863	6.2302e-01	4.3020e+00
133	IHT000006	123.2159	126.7315	125.1182	6.7521e-01	4.2867e+00
134	IHT000007	130.4087	133.5337	132.1274	6.3626e-01	4.3076e+00
135	IHT000008	129.1842	132.3092	130.6919	6.2644e-01	4.3033e+00
136	IHT000009	129.9542	132.8839	131.2276	6.0263e-01	4.3049e+00
137	IHT000010	-40.2982	-37.5639	-39.0756	5.8101e-01	4.1186e+00
138	IHT000011	129.9166	132.8463	131.0415	6.0175e-01	4.3043e+00
139	IHT000012	127.9222	130.2659	128.8597	5.7858e-01	4.2977e+00
140	IHT000013	91.0156	93.5547	92.2070	5.2830e-01	4.2024e+00
141	IHT000014	127.1710	129.7101	128.3897	5.2134e-01	4.2963e+00
142	IHT000015	94.8167	96.7698	95.8675	4.5488e-01	4.2106e+00
143	IHT000016	88.7169	90.4747	89.5334	4.6970e-01	4.1966e+00
144	IHT000017	104.8753	109.3675	107.3402	1.0028e+00	4.2382e+00
145	IHT000018	106.9636	109.8933	108.4207	6.6288e-01	4.2409e+00
146	IHT000019	103.4781	105.8218	104.7398	5.2676e-01	4.2317e+00
147	IHT000020	106.0021	108.3458	107.2638	5.5553e-01	4.2380e+00
148	IHT000021	-2.6179	0.1164	-1.3093	6.7802e-01	4.1000e+00
149	IHT000022	92.2739	94.6176	93.3169	5.4478e-01	4.2049e+00
150	IHT000023	104.3645	106.7083	105.2316	5.0093e-01	4.2329e+00
151	IHT000024	69.5726	71.7210	70.4671	4.5693e-01	4.1601e+00
152	IHT000025	104.3532	106.8923	105.4470	4.9756e-01	4.2334e+00
153	IHT000026	104.7401	107.2792	106.1385	5.0588e-01	4.2352e+00
154	IHT000027	89.4080	91.9471	90.9315	4.7021e-01	4.1996e+00
155	IHT000028	91.3349	94.6552	92.4248	7.0596e-01	4.2029e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6199	108.3308	106.0301	7.0398e-01	4.2349e+00
157	IHT000030	107.0125	110.3328	108.2508	6.7613e-01	4.2405e+00
158	IHT000031	105.4462	108.7665	106.6767	7.0061e-01	4.2365e+00
159	IHT000032	106.7420	110.2576	107.9920	7.2114e-01	4.2398e+00
160	IHT000033	106.7646	110.2802	107.9756	6.9475e-01	4.2398e+00
161	IHT000034	93.5472	96.4768	94.5901	5.7806e-01	4.2077e+00
162	IHT000035	123.5277	126.6527	124.7933	5.7078e-01	4.2857e+00
163	IHT000036	92.4091	94.7528	93.2607	5.3198e-01	4.2047e+00

Velocity 1 = 3.5395 (ft/sec) (+/- 13.6459 %)
Velocity 2 = 3.5337 (ft/sec) (+/- 5.1697 %)
Pressure drop = -4.7616 (psi)
Tsat in = 267.7877 (deg F) Tsat out = 274.0525 (deg F)
Phi inner = 99.7120 (kBtu/hr-ft2) (+/- 1.4157 %)
Phi outer = 100.1245 (kBtu/hr-ft2) (+/- 1.5444 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	83.3996	84.0349	83.7427	1.9082e-01	1.9001e+00
1	TRF000002	83.7360	84.1573	83.9425	1.4427e-01	1.9001e+00
2	TFM000001	87.7547	88.5953	88.1960	2.0010e-01	1.9002e+00
3	TIN000001	87.1024	87.7346	87.3555	1.5043e-01	1.9002e+00
4	TRV000001	88.0660	89.0087	88.5900	2.0616e-01	1.9002e+00
5	TSR000001	133.3554	135.2701	134.5522	4.4588e-01	1.9028e+00
6	TAO020136	74.4591	76.0544	75.1613	3.7882e-01	1.9000e+00
7	TAO050136	206.7780	208.0216	207.4927	3.0691e-01	1.9127e+00
8	TAO070136	214.1079	217.0826	215.4288	6.6823e-01	1.9142e+00
9	TAO080136	132.4952	133.6059	132.9723	2.4398e-01	1.9027e+00
10	TAO090136	252.9229	253.9487	253.3820	2.6285e-01	1.9225e+00
11	TAO100136	253.6641	255.7106	254.8804	4.5899e-01	1.9229e+00
12	TAO105136	260.5816	262.0698	261.4410	3.4107e-01	1.9245e+00
13	TAO110136	-74.5733	-51.7438	-64.0961	4.3791e+00	1.9121e+00
14	TAO115136	264.8797	266.1773	265.3953	3.6793e-01	1.9255e+00
15	TAO120136	279.8129	280.7320	280.2285	2.4937e-01	1.9295e+00
16	TAO125136	162.3381	163.6246	162.9679	2.8044e-01	1.9058e+00
17	TAO130136	273.0834	274.1803	273.5333	2.4653e-01	1.9277e+00
18	TAO120048	111.3672	112.6036	112.0306	3.0088e-01	1.9012e+00
19	TAO130048	268.6884	269.6101	269.1422	1.8728e-01	1.9265e+00
20	TAO120224	276.5255	277.6298	277.1700	2.5824e-01	1.9287e+00
21	TAO130224	264.5284	266.5461	265.2975	4.2154e-01	1.9255e+00
22	TAO120312	269.7802	270.9820	270.3170	3.0289e-01	1.9268e+00
23	TAO130312	265.5920	266.6093	266.0290	2.2039e-01	1.9257e+00
24	TRT020000	190.1826	192.1306	191.2077	4.5852e-01	1.9099e+00
25	TRT070000	232.5827	233.9133	233.2446	2.8675e-01	1.9179e+00
26	TRT100000	259.5324	261.1087	260.5044	3.1589e-01	1.9243e+00
27	TRT120000	269.4055	270.6056	269.9337	2.7356e-01	1.9267e+00
28	TRT125000	97.0043	97.8367	97.3955	2.2669e-01	1.9005e+00
29	TRT130000	265.6390	268.4092	267.4706	7.9345e-01	1.9261e+00
30	EMPTY	39.6057	40.0646	39.8489	2.0427e-01	1.9011e+00
31	TAF050136	140.6756	141.8821	141.2949	3.1659e-01	1.9034e+00
32	TAF070136	165.0219	167.1835	166.2674	4.0044e-01	1.9062e+00
33	TAF080136	232.1699	248.5000	241.1928	4.1915e+00	1.9196e+00
34	TAF090136	95.2755	96.5272	95.8721	2.6984e-01	1.9005e+00
35	TAF100136	199.5202	202.9988	200.6731	7.0598e-01	1.9115e+00
36	TAF105136	204.9930	207.6589	206.0146	4.9604e-01	1.9124e+00
37	TAF110136	211.2653	214.5090	212.1741	5.9767e-01	1.9136e+00
38	TAF115136	217.9388	221.1705	218.7152	5.9666e-01	1.9148e+00
39	TAF120136	260.6664	262.8820	261.6117	4.3938e-01	1.9246e+00
40	TAF125136	230.1416	232.1145	231.0363	5.3166e-01	1.9174e+00
41	TAF130136	233.5715	235.1720	234.5099	3.6308e-01	1.9181e+00
42	TAF120048	217.9102	220.5002	219.4265	5.9202e-01	1.9150e+00
43	TAF130048	229.1472	231.9819	230.4707	4.5034e-01	1.9173e+00
44	TAF120224	219.3432	222.1005	220.4319	5.5888e-01	1.9152e+00
45	TAF130224	227.7770	229.3013	228.4248	3.4739e-01	1.9168e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1491	2.1086e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	40.0279	1.5624e-01	1.9011e+00
48	TAI130048	271.0316	272.8773	272.0287	4.1346e-01	1.9273e+00
49	TAI130136	277.9275	279.0297	278.6690	2.4745e-01	1.9291e+00
50	TAI130224	273.8432	274.8591	274.3678	2.8639e-01	1.9279e+00
51	TAI130312	270.5772	271.9642	271.2655	3.3722e-01	1.9271e+00
52	TRR130000	69.4039	70.9974	70.0798	3.3143e-01	1.9000e+00
53	TSI000001	61.5558	62.4143	61.9551	2.1450e-01	1.9000e+00
54	TSI000002	74.8617	78.0349	75.7757	5.3896e-01	1.9000e+00
55	TSO000001	59.1568	60.1284	59.6710	2.1086e-01	1.9001e+00
56	TSO000002	75.6622	76.5115	76.0321	2.0260e-01	1.9000e+00
57	TAF020136	104.5078	106.0709	105.2382	3.8244e-01	1.9008e+00
58	TAF120312	215.3272	218.3831	216.9514	6.5085e-01	1.9145e+00
59	TAF130312	232.7964	235.4366	234.0602	5.8225e-01	1.9180e+00
60	EMPTY	3.8525	3.8770	3.8625	6.3135e-03	0.0000e+00
61	EMPTY	3.8330	3.8525	3.8428	4.4117e-03	0.0000e+00
62	EMPTY	3.8184	3.8281	3.8247	3.5908e-03	0.0000e+00
63	EMPTY	3.8086	3.8232	3.8163	3.1335e-03	0.0000e+00
64	EMPTY	1.8506	1.8555	1.8523	2.3675e-03	0.0000e+00
65	EMPTY	1.8652	1.8701	1.8678	2.4642e-03	0.0000e+00
66	EMPTY	1.8750	1.8799	1.8768	2.3675e-03	0.0000e+00
67	EMPTY	1.8848	1.8945	1.8896	9.8648e-04	0.0000e+00
68	EMPTY	1.8896	1.8994	1.8958	2.3778e-03	0.0000e+00
69	EMPTY	1.8994	1.9141	1.9076	2.6908e-03	0.0000e+00
70	EMPTY	1.9141	1.9189	1.9144	1.1714e-03	0.0000e+00
71	EMPTY	1.9287	1.9336	1.9296	1.8950e-03	0.0000e+00
72	EMPTY	1.9336	1.9434	1.9383	1.3811e-03	0.0000e+00
73	EMPTY	1.9482	1.9531	1.9513	2.3941e-03	0.0000e+00
74	EMPTY	1.9580	1.9629	1.9589	1.8950e-03	0.0000e+00
75	EMPTY	1.9678	1.9727	1.9722	1.4797e-03	0.0000e+00
76	EMPTY	1.9775	1.9824	1.9781	1.6028e-03	0.0000e+00
77	EMPTY	1.9873	1.9922	1.9921	6.9053e-04	0.0000e+00
78	EMPTY	1.9971	2.0117	2.0068	1.7086e-03	0.0000e+00
79	EMPTY	2.0215	2.0264	2.0256	1.8082e-03	0.0000e+00
80	PAN020136	-17.3098	-17.0046	-17.1847	7.1901e-02	8.7106e-01
81	PAN050136	-33.2211	-32.6107	-32.9159	1.2710e-01	1.6820e+00
82	PAN070136	-21.9841	-14.5073	-21.3920	1.3609e+00	8.7164e-01
83	PAN080136	-13.8795	-9.5307	-10.0221	8.1097e-01	8.7036e-01
84	PAN090136	-11.3442	-3.0282	-10.2624	1.9561e+00	8.7038e-01
85	PAN100136	-12.1908	-9.5968	-10.3368	7.0504e-01	8.7038e-01
86	PAN105136	-5.6421	-4.2688	-4.9386	3.1637e-01	8.7009e-01
87	PAN110136	-6.4592	-3.8652	-5.1027	4.2501e-01	8.7009e-01
88	PAN115136	-7.0256	-3.5924	-5.1244	5.3011e-01	8.7009e-01
89	PAN120136	-5.6801	-3.2387	-4.6639	4.3170e-01	8.7008e-01
90	PAN125136	-5.0405	-3.5146	-4.4546	3.3750e-01	8.7007e-01
91	PAN130136	-5.4644	-4.7778	-5.2447	1.4915e-01	8.7010e-01
92	PAN120048	-11.1901	-8.6724	-10.3677	4.4280e-01	8.7039e-01
93	PAN130048	-9.8945	-8.7501	-9.5176	1.8523e-01	8.7033e-01
94	PAN120224	-10.0766	-6.5671	-9.0542	6.2116e-01	8.7029e-01
95	PAN130224	-10.3772	-9.5380	-10.0827	1.8238e-01	8.7037e-01
96	PAN120312	-13.7254	-8.6900	-9.8878	9.6175e-01	8.7035e-01
97	PAN130312	-10.1411	-8.3864	-9.6971	3.2467e-01	8.7034e-01
98	PAB000136	40.1823	40.3654	40.2821	4.5013e-02	5.8868e-01
99	PAB100136	43.6640	43.8928	43.7885	4.8972e-02	5.9024e-01
100	PAB125136	44.6200	44.8488	44.7088	4.6619e-02	5.9067e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9587	40.2028	40.1052	7.3986e-02	7.5667e-01
102	PRV000001	19.7186	19.8406	19.7503	5.4088e-02	7.5162e-01
103	PSR000001	44.8156	45.0597	44.9156	5.3409e-02	7.5836e-01
104	PFM000001	1.7324	2.0071	1.8460	7.2961e-02	5.0002e-01
105	PAN000136	-132.7071	-130.8760	-131.8282	4.0142e-01	4.9310e+00
106	PFM000002	1.7951	1.8790	1.8397	1.9653e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	0.0021	3.9570e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0014	2.2146e-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	102.0245	102.4151	102.2276	1.0410e-01	1.0160e+00
113	VPW000002	119.0467	119.6327	119.2655	1.0907e-01	1.0808e+00
114	VPW000003	147.0365	147.4271	147.2319	1.2478e-01	1.1985e+00
115	VPW000004	105.0593	105.2546	105.1375	9.6655e-02	1.0267e+00
116	VPW000005	139.6522	140.2381	139.9100	1.3917e-01	1.1665e+00
117	VPW000006	147.6750	148.2610	147.9679	1.4895e-01	1.2018e+00
118	IPW000001	559.1212	566.9306	564.1583	1.5322e+00	9.2452e+00
119	IPW000002	1267.1995	1275.0045	1270.8679	1.7470e+00	1.2900e+01
120	IPW000003	1308.4498	1312.3499	1309.8535	1.1171e+00	1.3141e+01
121	IPW000004	382.1458	384.0989	383.0540	4.5217e-01	3.6273e+00
122	IPW000005	252.0969	253.5616	252.8682	2.8056e-01	2.8268e+00
123	IPW000006	260.7798	262.2446	261.5120	3.5908e-01	2.8754e+00
124	EMPTY	-0.0293	-0.0098	-0.0195	3.9459e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0129	3.2359e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0153	3.4187e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	2.8334e-03	0.0000e+00
128	IHT000001	128.7184	131.0622	129.8551	5.3480e-01	4.3007e+00
129	IHT000002	132.5721	134.5252	133.5760	5.0225e-01	4.3121e+00
130	IHT000003	132.6998	135.0436	133.7779	5.2828e-01	4.3127e+00
131	IHT000004	130.9908	133.1393	131.9048	5.1212e-01	4.3070e+00
132	IHT000005	129.2668	131.4153	130.2824	4.8648e-01	4.3020e+00
133	IHT000006	124.1925	126.1456	125.0869	4.9299e-01	4.2866e+00
134	IHT000007	130.9946	133.3384	132.1431	5.5051e-01	4.3077e+00
135	IHT000008	129.5748	131.9186	130.6646	5.2658e-01	4.3032e+00
136	IHT000009	130.3448	132.2979	131.1924	5.4478e-01	4.3048e+00
137	IHT000010	-40.2982	-37.7592	-39.0990	5.4962e-01	4.1186e+00
138	IHT000011	130.1119	132.4557	131.3033	5.4283e-01	4.3051e+00
139	IHT000012	127.9222	130.2659	129.0863	5.3519e-01	4.2984e+00
140	IHT000013	91.2109	93.1641	92.1094	4.8488e-01	4.2022e+00
141	IHT000014	127.3663	129.5147	128.4170	4.8631e-01	4.2964e+00
142	IHT000015	95.0120	96.9651	95.8245	4.9968e-01	4.2105e+00
143	IHT000016	88.5216	90.4747	89.5021	4.9362e-01	4.1966e+00
144	IHT000017	105.4613	109.1722	107.2425	8.7848e-01	4.2379e+00
145	IHT000018	107.1590	109.6980	108.3699	5.7318e-01	4.2408e+00
146	IHT000019	103.8687	105.6265	104.7280	4.0434e-01	4.2316e+00
147	IHT000020	106.3927	108.3458	107.2287	4.3052e-01	4.2379e+00
148	IHT000021	-2.4226	-0.0789	-1.3132	5.6281e-01	4.1000e+00
149	IHT000022	92.4692	94.2270	93.2505	4.4117e-01	4.2047e+00
150	IHT000023	104.3645	106.1223	105.1809	4.5453e-01	4.2328e+00
151	IHT000024	69.5726	71.3304	70.4515	4.2909e-01	4.1601e+00
152	IHT000025	104.3532	106.5017	105.4470	5.1297e-01	4.2334e+00
153	IHT000026	105.3260	107.2792	106.1385	4.7574e-01	4.2352e+00
154	IHT000027	89.9940	91.9471	90.9510	4.6059e-01	4.1997e+00
155	IHT000028	91.1396	93.6786	92.3076	5.2717e-01	4.2026e+00

Test: Aug16_07		sum2	Date: Thu Aug 16 21:46:49 1990		Page: 4	
#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8152	107.1590	105.9363	5.4506e-01	4.2346e+00
157	IHT000030	107.0125	109.5515	108.0946	5.5693e-01	4.2401e+00
158	IHT000031	105.4462	107.9853	106.5830	5.2302e-01	4.2363e+00
159	IHT000032	106.7420	109.2811	107.9413	5.2794e-01	4.2397e+00
160	IHT000033	106.7646	109.1083	107.8584	5.1599e-01	4.2395e+00
161	IHT000034	93.9378	95.8909	94.6058	4.3241e-01	4.2077e+00
162	IHT000035	123.9183	126.0667	124.8558	4.5335e-01	4.2859e+00
163	IHT000036	92.4091	94.7528	93.2763	4.8030e-01	4.2048e+00

Test: Aug16_07 dif Date: Thu Aug 16 21:46:49 1990 Page: 1

Velocity 1 = 0.022200 (ft/sec)

Velocity 2 = 0.000900 (ft/sec)

Pressure Drop = 0.002900 (psi)

Tsat in = 0.259491 (deg F) Tsat out = 0.213684 (deg F)

Phi inner = 1.087700 (kBtu/hr-ft2) Phi outer = 0.705101 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0212	0.0253
1	TRF000002	0.0211	0.0251
2	TFM000001	0.0292	0.0331
3	TIN000001	0.1347	0.1540
4	TRV000001	0.0879	0.0993
5	TSR000001	0.8184	0.6120
6	TAO020136	0.2764	0.3691
7	TAO050136	0.5799	0.2787
8	TAO070136	1.4661	0.6759
9	TAO080136	2.4129	1.7822
10	TAO090136	0.1748	0.0689
11	TAO100136	0.1637	0.0642
12	TAO105136	0.2565	0.0980
13	TAO110136	5.1497	8.7362
14	TAO115136	0.0335	0.0126
15	TAO120136	0.1468	0.0524
16	TAO125136	0.0199	0.0122
17	TAO130136	0.1559	0.0570
18	TAO120048	2.2208	2.0224
19	TAO130048	0.1140	0.0423
20	TAO120224	0.1396	0.0503
21	TAO130224	0.1392	0.0524
22	TAO120312	0.1441	0.0533
23	TAO130312	0.1476	0.0555
24	TRT020000	0.1636	0.0855
25	TRT070000	0.1790	0.0767
26	TRT100000	0.2961	0.1135
27	TRT120000	0.1144	0.0424
28	TRT125000	2.1175	2.2224
29	TRT130000	0.0147	0.0055
30	EMPTY	0.0276	0.0692
31	TAF050136	0.2164	0.1529
32	TAF070136	0.3575	0.2146
33	TAF080136	0.9554	0.3946
34	TAF090136	2.3315	2.4925
35	TAF100136	0.3170	0.1577
36	TAF105136	0.2134	0.1035
37	TAF110136	0.1526	0.0719
38	TAF115136	0.2434	0.1112
39	TAF120136	0.0921	0.0352
40	TAF125136	0.3224	0.1394
41	TAF130136	0.3237	0.1378
42	TAF120048	0.0651	0.0297
43	TAF130048	0.0454	0.0197
44	TAF120224	0.1217	0.0552
45	TAF130224	0.1867	0.0817

#	Name	Abs Diff	%Diff
46	EMPTY	0.0184	0.0482
47	EMPTY	0.0000	0.0000
48	TAI130048	0.0406	0.0149
49	TAI130136	0.2308	0.0828
50	TAI130224	0.1883	0.0686
51	TAI130312	0.2698	0.0994
52	TRR130000	2.6320	3.6198
53	TSI000001	0.0298	0.0481
54	TSI000002	0.9695	1.2960
55	TSO000001	0.1427	0.2386
56	TSO000002	0.2629	0.3446
57	TAF020136	0.0751	0.0713
58	TAF120312	0.0727	0.0335
59	TAF130312	0.2260	0.0965
60	EMPTY	0.0054	0.1396
61	EMPTY	0.0061	0.1585
62	EMPTY	0.0060	0.1566
63	EMPTY	0.0061	0.1596
64	EMPTY	0.0020	0.1079
65	EMPTY	0.0023	0.1230
66	EMPTY	0.0028	0.1490
67	EMPTY	0.0003	0.0159
68	EMPTY	0.0024	0.1264
69	EMPTY	0.0012	0.0629
70	EMPTY	0.0021	0.1096
71	EMPTY	0.0034	0.1759
72	EMPTY	0.0003	0.0155
73	EMPTY	0.0017	0.0870
74	EMPTY	0.0026	0.1326
75	EMPTY	0.0006	0.0304
76	EMPTY	0.0018	0.0909
77	EMPTY	0.0001	0.0050
78	EMPTY	0.0005	0.0249
79	EMPTY	0.0006	0.0296
80	PAN020136	0.0046	0.0268
81	PAN050136	0.3174	0.9737
82	PAN070136	0.2564	1.1844
83	PAN080136	0.0503	0.4994
84	PAN090136	0.2334	2.2237
85	PAN100136	0.0305	0.2942
86	PAN105136	0.0564	1.1552
87	PAN110136	0.1114	2.2319
88	PAN115136	0.0335	0.6495
89	PAN120136	0.0015	0.0322
90	PAN125136	0.0229	0.5167
91	PAN130136	0.0397	0.7513
92	PAN120048	0.0259	0.2492
93	PAN130048	0.0275	0.2881
94	PAN120224	0.1190	1.2973
95	PAN130224	0.0702	0.6914
96	PAN120312	0.0946	0.9660
97	PAN130312	0.0793	0.8111
98	PAB000136	0.1749	0.4361
99	PAB100136	0.1630	0.3736
100	PAB125136	0.1575	0.3535

#	Name	Abs Diff	%Diff
101	PIN000001	0.1074	0.2685
102	PRV000001	0.0220	0.1115
103	PSR000001	0.1513	0.3380
104	PFM000001	0.0238	1.2729
105	PAN000136	0.0824	0.0625
106	PFM000002	0.0011	0.0598
107	EMPTY	0.0001	4.5455
108	EMPTY	0.0000	0.0000
109	EMPTY	0.0007	33.3333
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0937	0.0916
113	VPW000002	0.0312	0.0262
114	VPW000003	0.0312	0.0212
115	VPW000004	0.0117	0.0111
116	VPW000005	0.0079	0.0056
117	VPW000006	0.2930	0.1984
118	IPW000001	17.5321	3.2073
119	IPW000002	30.2441	2.3245
120	IPW000003	16.4584	1.2409
121	IPW000004	0.4785	0.1251
122	IPW000005	1.0254	0.4039
123	IPW000006	1.4942	0.5681
124	EMPTY	0.0009	4.8387
125	EMPTY	0.0007	5.7377
126	EMPTY	0.0005	3.3784
127	EMPTY	0.0015	10.2740
128	IHT000001	0.0312	0.0240
129	IHT000002	0.0156	0.0117
130	IHT000003	0.0117	0.0087
131	IHT000004	0.0352	0.0267
132	IHT000005	0.0039	0.0030
133	IHT000006	0.0313	0.0250
134	IHT000007	0.0157	0.0119
135	IHT000008	0.0273	0.0209
136	IHT000009	0.0352	0.0268
137	IHT000010	0.0234	0.0599
138	IHT000011	0.2618	0.1998
139	IHT000012	0.2266	0.1759
140	IHT000013	0.0976	0.1059
141	IHT000014	0.0273	0.0213
142	IHT000015	0.0430	0.0449
143	IHT000016	0.0313	0.0350
144	IHT000017	0.0977	0.0910
145	IHT000018	0.0508	0.0469
146	IHT000019	0.0118	0.0113
147	IHT000020	0.0351	0.0327
148	IHT000021	0.0039	0.2979
149	IHT000022	0.0664	0.0712
150	IHT000023	0.0507	0.0482
151	IHT000024	0.0156	0.0221
152	IHT000025	0.0000	0.0000
153	IHT000026	0.0000	0.0000
154	IHT000027	0.0195	0.0214
155	IHT000028	0.1172	0.1268

#	Name	Abs Diff	%Diff
156	IHT0000029	0.0938	0.0885
157	IHT0000030	0.1562	0.1443
158	IHT0000031	0.0937	0.0878
159	IHT0000032	0.0507	0.0469
160	IHT0000033	0.1172	0.1085
161	IHT0000034	0.0157	0.0166
162	IHT0000035	0.0625	0.0501
163	IHT0000036	0.0156	0.0167

Velocity 1 = 20.0019 (ft/sec) (+/- 1.7203 %)
Velocity 2 = 13.4163 (ft/sec) (+/- 1.7033 %)
Pressure drop = 8.2827 (psi)
Tsats in = 267.6479 (deg F) Tsats out = 254.9053 (deg F)
Phi inner = 300.3860 (kBtu/hr-ft2) (+/- 1.2350 %)
Phi outer = 299.1744 (kBtu/hr-ft2) (+/- 1.2638 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.2466	84.8816	84.5514	1.7713e-01	1.9001e+00
1	TRF000002	84.5785	84.9996	84.7596	1.2038e-01	1.9001e+00
2	TFM000001	88.0743	88.9125	88.4532	2.0194e-01	1.9002e+00
3	TIN000001	87.3136	88.0505	87.6192	1.3819e-01	1.9002e+00
4	TRV000001	89.1166	89.8498	89.4750	1.8918e-01	1.9003e+00
5	TSR000001	146.2043	148.8986	147.7344	5.1511e-01	1.9041e+00
6	TAO020136	134.0649	136.3969	135.2757	5.0107e-01	1.9029e+00
7	TAO050136	158.9321	161.0056	159.8002	5.1346e-01	1.9054e+00
8	TAO070136	153.1863	156.6906	154.1064	7.6343e-01	1.9048e+00
9	TAO080136	147.5187	149.4119	148.1394	3.7793e-01	1.9041e+00
10	TAO090136	183.8513	185.4095	184.5158	4.0595e-01	1.9088e+00
11	TAO100136	177.9450	180.0967	178.7648	6.2445e-01	1.9080e+00
12	TAO105136	182.2267	184.0854	183.0191	4.3838e-01	1.9086e+00
13	TAO110136	96.6946	97.4212	97.0698	1.8380e-01	1.9005e+00
14	TAO115136	183.2232	184.2978	183.8196	2.6356e-01	1.9087e+00
15	TAO120136	199.7277	201.1766	200.4018	3.3028e-01	1.9114e+00
16	TAO125136	183.1452	186.4526	184.4016	7.7551e-01	1.9088e+00
17	TAO130136	189.7914	191.0412	190.4240	2.4710e-01	1.9097e+00
18	TAO120048	106.3155	107.3496	106.9043	2.7885e-01	1.9009e+00
19	TAO130048	198.6215	199.4877	199.1313	2.2392e-01	1.9112e+00
20	TAO120224	198.1959	199.3554	198.6698	2.6782e-01	1.9111e+00
21	TAO130224	182.8546	184.9830	183.7165	3.7984e-01	1.9087e+00
22	TAO120312	194.3823	195.7396	194.9893	2.7763e-01	1.9105e+00
23	TAO130312	197.7150	198.8729	198.1884	2.6872e-01	1.9110e+00
24	TRT020000	155.9629	157.1611	156.5959	2.5323e-01	1.9050e+00
25	TRT070000	180.4033	181.3875	180.8389	2.4196e-01	1.9083e+00
26	TRT100000	199.7987	200.8572	200.3007	2.6212e-01	1.9114e+00
27	TRT120000	196.6526	197.4267	197.0573	1.8313e-01	1.9108e+00
28	TRT125000	99.7010	100.4272	100.1469	1.5427e-01	1.9006e+00
29	TRT130000	202.5708	203.2456	202.8659	1.8070e-01	1.9119e+00
30	EMPTY	39.3761	40.0646	39.7158	2.0862e-01	1.9011e+00
31	TAF050136	114.1354	115.4679	114.7687	2.6803e-01	1.9013e+00
32	TAF070136	125.5058	127.1279	126.3842	3.2871e-01	1.9021e+00
33	TAF080136	176.9772	178.7307	177.7087	4.3279e-01	1.9078e+00
34	TAF090136	93.6098	94.7593	94.2055	2.6705e-01	1.9004e+00
35	TAF100136	141.5823	143.1933	142.3297	3.4312e-01	1.9035e+00
36	TAF105136	144.2026	145.5991	144.9433	3.6262e-01	1.9038e+00
37	TAF110136	148.2564	149.6540	148.8289	2.9286e-01	1.9042e+00
38	TAF115136	151.6758	152.9718	152.2726	2.7205e-01	1.9046e+00
39	TAF120136	172.5318	175.3658	173.7107	5.7954e-01	1.9072e+00
40	TAF125136	157.2686	158.7490	157.8755	3.5995e-01	1.9052e+00
41	TAF130136	159.3483	160.7362	159.9330	2.9454e-01	1.9054e+00
42	TAF120048	159.9585	161.3566	160.6273	3.1141e-01	1.9055e+00
43	TAF130048	166.8567	168.1399	167.2616	2.5716e-01	1.9064e+00
44	TAF120224	151.9725	153.2700	152.6056	3.0550e-01	1.9046e+00
45	TAF130224	156.5373	157.7377	157.1517	2.7851e-01	1.9051e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0572	2.1190e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.5414	1.0413e-01	1.9011e+00
48	TAI130048	190.6486	192.0080	191.5089	3.2928e-01	1.9099e+00
49	TAI130136	197.6197	198.4879	198.0961	1.8743e-01	1.9110e+00
50	TAI130224	201.2187	202.2816	201.7268	3.0178e-01	1.9117e+00
51	TAI130312	188.2844	189.5510	188.8519	2.5185e-01	1.9095e+00
52	TRR130000	114.2273	115.7652	115.0127	4.0207e-01	1.9014e+00
53	TSI000001	59.2043	59.9559	59.6229	1.9193e-01	1.9001e+00
54	TSI000002	83.0954	84.8822	84.2459	3.6309e-01	1.9001e+00
55	TSO000001	57.2075	58.0731	57.6512	2.0986e-01	1.9001e+00
56	TSO000002	70.0298	70.8825	70.3432	2.0031e-01	1.9000e+00
57	TAF020136	95.0850	96.9747	96.0911	4.4482e-01	1.9005e+00
58	TAF120312	156.7106	158.3031	157.6003	4.0242e-01	1.9052e+00
59	TAF130312	167.4669	169.8306	168.3442	5.6169e-01	1.9065e+00
60	EMPTY	2.1826	2.2070	2.1956	5.5463e-03	0.0000e+00
61	EMPTY	2.1826	2.1973	2.1925	3.4863e-03	0.0000e+00
62	EMPTY	2.1826	2.1973	2.1905	3.1023e-03	0.0000e+00
63	EMPTY	2.1875	2.1973	2.1931	2.6118e-03	0.0000e+00
64	EMPTY	1.1328	1.1426	1.1375	1.3811e-03	0.0000e+00
65	EMPTY	1.1523	1.1621	1.1569	1.5314e-03	0.0000e+00
66	EMPTY	1.1670	1.1719	1.1681	2.0432e-03	0.0000e+00
67	EMPTY	1.1816	1.1865	1.1851	2.2603e-03	0.0000e+00
68	EMPTY	1.1914	1.1963	1.1957	1.6028e-03	0.0000e+00
69	EMPTY	1.2061	1.2109	1.2104	1.4797e-03	0.0000e+00
70	EMPTY	1.2207	1.2256	1.2215	1.8082e-03	0.0000e+00
71	EMPTY	1.2402	1.2451	1.2407	1.4797e-03	0.0000e+00
72	EMPTY	1.2500	1.2549	1.2508	1.8082e-03	0.0000e+00
73	EMPTY	1.2646	1.2744	1.2683	2.5743e-03	0.0000e+00
74	EMPTY	1.2744	1.2842	1.2799	2.1249e-03	0.0000e+00
75	EMPTY	1.2891	1.2988	1.2946	1.9754e-03	0.0000e+00
76	EMPTY	1.3037	1.3086	1.3069	2.3365e-03	0.0000e+00
77	EMPTY	1.3184	1.3281	1.3231	1.2041e-03	0.0000e+00
78	EMPTY	1.3379	1.3477	1.3427	1.2041e-03	0.0000e+00
79	EMPTY	1.3574	1.3623	1.3616	1.7115e-03	0.0000e+00
80	PAN020136	10.1560	30.2976	22.4485	4.5382e+00	8.7181e-01
81	PAN050136	34.8331	58.6369	45.4533	5.7148e+00	1.6838e+00
82	PAN070136	18.6043	45.6886	31.1775	7.0718e+00	8.7348e-01
83	PAN080136	5.8043	35.7116	22.0687	6.2971e+00	8.7175e-01
84	PAN090136	11.6965	41.6038	27.1964	6.9758e+00	8.7265e-01
85	PAN100136	3.5258	28.5502	18.9601	6.1214e+00	8.7129e-01
86	PAN105136	-0.2252	16.7884	7.7826	3.5602e+00	8.7022e-01
87	PAN110136	1.7805	19.3281	10.5330	4.1824e+00	8.7040e-01
88	PAN115136	0.6038	14.7945	10.1207	3.2202e+00	8.7037e-01
89	PAN120136	-3.4676	15.6822	6.5696	4.2552e+00	8.7016e-01
90	PAN125136	-4.1250	21.8150	10.7569	5.2964e+00	8.7042e-01
91	PAN130136	5.9797	27.4183	15.3837	5.2457e+00	8.7085e-01
92	PAN120048	1.0932	30.0849	19.5472	5.7341e+00	8.7137e-01
93	PAN130048	21.3860	41.2987	28.5851	5.5441e+00	8.7293e-01
94	PAN120224	3.8852	27.9941	17.2779	5.6499e+00	8.7107e-01
95	PAN130224	9.0777	36.8487	19.1073	6.8219e+00	8.7131e-01
96	PAN120312	2.7541	27.9311	16.7144	5.3084e+00	8.7100e-01
97	PAN130312	17.1721	33.2701	24.4597	4.1784e+00	8.7215e-01
98	PAB000136	39.7703	40.5485	40.1878	1.8419e-01	5.8864e-01
99	PAB100136	33.5474	34.2340	33.9612	1.6071e-01	5.8618e-01
100	PAB125136	32.0315	33.0843	32.3849	2.3706e-01	5.8562e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.1042	40.8132	39.9831	3.6245e-01	7.5663e-01
102	PRV0000001	19.5965	19.7186	19.6844	5.5366e-02	7.5161e-01
103	PSR0000001	29.4347	29.8009	29.6324	8.1384e-02	7.5365e-01
104	PFM0000001	60.8755	62.0657	61.5603	2.8127e-01	5.2315e-01
105	PAN000136	215.1933	242.2014	229.3107	6.4089e+00	4.9533e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0096	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-0.5225	-7.3491	1.8712e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0052	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW0000001	177.0245	177.4151	177.1963	1.0907e-01	1.3366e+00
113	VPW0000002	206.9374	207.5233	207.2499	1.1161e-01	1.4840e+00
114	VPW0000003	255.6303	256.2162	256.0482	1.2484e-01	1.7367e+00
115	VPW0000004	182.0125	182.4031	182.1493	1.2633e-01	1.3603e+00
116	VPW0000005	242.1913	243.1678	242.6288	2.0336e-01	1.6659e+00
117	VPW0000006	257.4407	257.8313	257.6319	1.2156e-01	1.7452e+00
118	IPW0000001	939.8282	945.6852	942.7570	1.1329e+00	1.1004e+01
119	IPW0000002	2217.4678	2223.3215	2220.0439	1.2738e+00	1.9318e+01
120	IPW0000003	2267.8499	2271.7498	2270.6575	1.2557e+00	1.9682e+01
121	IPW0000004	652.1653	653.6301	652.7808	3.5307e-01	5.5312e+00
122	IPW0000005	432.7429	434.6958	433.6412	4.2264e-01	3.9668e+00
123	IPW0000006	449.7446	451.6978	450.8283	3.8574e-01	4.0847e+00
124	EMPTY	-0.0244	-0.0098	-0.0176	3.9459e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0122	3.0003e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0134	3.3901e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.4400e-03	0.0000e+00
128	IHT0000001	220.7106	223.0544	221.8825	5.4676e-01	4.6619e+00
129	IHT0000002	227.4940	229.8377	228.4941	5.1394e-01	4.6937e+00
130	IHT0000003	229.1842	231.3326	230.0280	5.0600e-01	4.7012e+00
131	IHT0000004	224.9361	227.6705	226.0495	5.3123e-01	4.6819e+00
132	IHT0000005	222.4309	225.1653	223.5362	5.8475e-01	4.6698e+00
133	IHT0000006	216.3799	218.9190	217.4346	5.7453e-01	4.6409e+00
134	IHT0000007	225.7212	227.6743	226.6898	4.6515e-01	4.6850e+00
135	IHT0000008	223.1295	225.2779	224.1256	4.9639e-01	4.6726e+00
136	IHT0000009	223.7042	225.8526	224.7119	4.7737e-01	4.6754e+00
137	IHT0000010	55.0143	57.3580	56.1314	5.7323e-01	4.1382e+00
138	IHT0000011	224.0572	226.4010	225.1003	5.4905e-01	4.6773e+00
139	IHT0000012	220.1097	222.4534	221.1018	5.5079e-01	4.6582e+00
140	IHT0000013	158.5938	161.1328	160.0000	5.3379e-01	4.4011e+00
141	IHT0000014	219.9444	221.8976	220.9444	5.4625e-01	4.6574e+00
142	IHT0000015	164.1526	166.6917	165.2504	5.5648e-01	4.4205e+00
143	IHT0000016	152.7794	155.1232	153.9161	4.9235e-01	4.3794e+00
144	IHT0000017	183.3909	185.7347	184.6371	5.4375e-01	4.4966e+00
145	IHT0000018	184.5027	187.2371	186.2098	5.8235e-01	4.5030e+00
146	IHT0000019	179.0640	181.9937	180.6422	6.8554e-01	4.4803e+00
147	IHT0000020	184.1271	187.0568	185.7677	6.7428e-01	4.5012e+00
148	IHT0000021	-3.3992	0.1164	-1.4070	8.6541e-01	4.1000e+00
149	IHT0000022	158.8754	161.6098	160.2973	6.6032e-01	4.4022e+00
150	IHT0000023	180.3411	183.4661	181.7472	6.8799e-01	4.4848e+00
151	IHT0000024	144.9632	147.5023	146.1430	6.4592e-01	4.3527e+00
152	IHT0000025	179.5486	181.8923	180.7126	6.6376e-01	4.4806e+00
153	IHT0000026	181.6932	184.2323	182.9980	6.2570e-01	4.4899e+00
154	IHT0000027	155.0331	157.7674	156.4706	6.4448e-01	4.3884e+00
155	IHT0000028	156.9599	160.4755	158.8232	6.8369e-01	4.3969e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.2058	183.9168	182.2020	6.4993e-01	4.4866e+00
157	IHT000030	183.7703	187.0906	185.6923	6.4761e-01	4.5009e+00
158	IHT000031	181.2275	184.3525	183.0830	6.7109e-01	4.4902e+00
159	IHT000032	183.4998	186.6248	185.4179	7.0883e-01	4.4998e+00
160	IHT000033	183.3271	186.6474	185.3545	7.0905e-01	4.4995e+00
161	IHT000034	161.3206	163.6644	162.7465	5.7352e-01	4.4112e+00
162	IHT000035	213.1761	215.9105	214.3987	6.5532e-01	4.6267e+00
163	IHT000036	159.4013	161.7450	160.7138	5.6226e-01	4.4037e+00

Velocity 1 = 19.9822 (ft/sec) (+/- 1.7205 %)
 Velocity 2 = 13.4153 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 8.2883 (psi)
 Tsat in = 267.5582 (deg F) Tsat out = 254.6420 (deg F)
 Phi inner = 297.2672 (kBtu/hr-ft2) (+/- 1.2361 %)
 Phi outer = 299.3825 (kBtu/hr-ft2) (+/- 1.2631 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	84.2466	84.8816	84.6022	1.9798e-01	1.9001e+00
1	TRF0000002	84.5785	84.9996	84.7722	1.3342e-01	1.9001e+00
2	TFM0000001	87.1297	87.8657	87.4874	1.9426e-01	1.9002e+00
3	TIN0000001	86.2609	86.8928	86.5563	1.4277e-01	1.9002e+00
4	TRV0000001	87.7580	89.2235	88.3579	3.1503e-01	1.9002e+00
5	TSR0000001	147.4020	151.5856	150.5263	8.7722e-01	1.9044e+00
6	TAO020136	136.0927	138.8256	137.5870	5.7634e-01	1.9031e+00
7	TAO050136	158.1444	160.0213	158.9450	4.2990e-01	1.9053e+00
8	TAO070136	151.8820	155.7912	153.1461	8.5925e-01	1.9047e+00
9	TAO080136	145.6278	147.9193	146.5527	4.8033e-01	1.9039e+00
10	TAO090136	182.6823	184.6311	183.5988	4.4632e-01	1.9087e+00
11	TAO100136	176.8676	179.3150	177.7809	6.5785e-01	1.9078e+00
12	TAO105136	181.4440	183.4008	182.2581	4.8843e-01	1.9085e+00
13	TAO110136	97.0028	97.9381	97.4274	1.8517e-01	1.9005e+00
14	TAO115136	182.3448	183.4190	182.8371	2.8139e-01	1.9086e+00
15	TAO120136	198.8579	200.1134	199.5234	2.6962e-01	1.9113e+00
16	TAO125136	182.1719	186.9408	183.8311	1.0431e+00	1.9087e+00
17	TAO130136	188.7361	190.0846	189.3004	2.5577e-01	1.9096e+00
18	TAO120048	107.4510	108.4853	107.8279	2.7346e-01	1.9010e+00
19	TAO130048	197.7538	198.7182	198.2482	2.3831e-01	1.9110e+00
20	TAO120224	197.0367	198.1979	197.5208	2.5316e-01	1.9109e+00
21	TAO130224	181.9825	183.4373	182.5316	3.2321e-01	1.9085e+00
22	TAO120312	193.2178	194.8675	193.8705	3.0567e-01	1.9103e+00
23	TAO130312	196.8486	198.1022	197.3501	2.7723e-01	1.9109e+00
24	TRT020000	155.2641	156.4624	155.8193	2.4883e-01	1.9050e+00
25	TRT070000	179.5160	180.4030	180.0090	2.3545e-01	1.9081e+00
26	TRT100000	198.9310	199.9923	199.4445	2.7363e-01	1.9113e+00
27	TRT120000	195.8793	196.6547	196.2864	1.9566e-01	1.9107e+00
28	TRT125000	100.6298	101.4598	100.9793	1.8470e-01	1.9006e+00
29	TRT130000	201.7055	202.4771	201.9840	2.0092e-01	1.9117e+00
30	EMPTY	39.3761	40.2940	39.7801	2.2506e-01	1.9011e+00
31	TAF050136	112.9064	113.9321	113.4729	2.7110e-01	1.9013e+00
32	TAF070136	124.7976	126.4206	125.2766	3.0044e-01	1.9021e+00
33	TAF080136	175.8114	178.0513	176.7496	4.7615e-01	1.9077e+00
34	TAF090136	94.8615	96.0093	95.3796	2.4943e-01	1.9004e+00
35	TAF100136	140.5732	142.3883	141.2916	3.5451e-01	1.9034e+00
36	TAF105136	143.2067	144.7047	143.8582	3.1505e-01	1.9037e+00
37	TAF110136	147.1587	148.6563	147.7774	3.0612e-01	1.9041e+00
38	TAF115136	150.6790	151.8767	151.1429	3.0490e-01	1.9044e+00
39	TAF120136	171.4544	173.9012	172.6996	5.2445e-01	1.9071e+00
40	TAF125136	155.7889	157.9626	156.7138	4.3264e-01	1.9051e+00
41	TAF130136	158.2589	159.3499	158.7859	2.6856e-01	1.9053e+00
42	TAF120048	158.7590	160.9566	159.4943	4.0049e-01	1.9054e+00
43	TAF130048	165.4735	166.9561	166.1977	3.0297e-01	1.9062e+00
44	TAF120224	150.9748	152.1733	151.4389	2.8439e-01	1.9045e+00
45	TAF130224	155.3359	156.4373	155.9368	2.7354e-01	1.9050e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	2.0903e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5276	1.1925e-01	1.9011e+00
48	TAI130048	190.0654	191.4258	190.6529	3.3123e-01	1.9098e+00
49	TAI130136	196.6542	197.5241	197.1690	2.0882e-01	1.9109e+00
50	TAI130224	200.1545	201.4117	200.7543	3.1389e-01	1.9115e+00
51	TAI130312	187.3100	188.4805	187.8370	2.7293e-01	1.9093e+00
52	TRR130000	114.3307	115.8651	115.0477	3.5760e-01	1.9014e+00
53	TSI000001	59.3107	60.0639	59.6939	1.7534e-01	1.9001e+00
54	TSI000002	83.3052	84.6732	84.0507	3.1360e-01	1.9001e+00
55	TSO000001	57.2080	58.0725	57.6144	1.9483e-01	1.9001e+00
56	TSO000002	69.7101	70.6700	70.2645	2.1659e-01	1.9000e+00
57	TAF020136	94.0334	96.0301	94.9756	4.8071e-01	1.9004e+00
58	TAF120312	155.6137	157.5071	156.5430	4.3473e-01	1.9050e+00
59	TAF130312	166.4817	168.9458	167.3728	5.1252e-01	1.9064e+00
60	EMPTY	2.1582	2.1826	2.1717	5.1788e-03	0.0000e+00
61	EMPTY	2.1631	2.1777	2.1692	3.7963e-03	0.0000e+00
62	EMPTY	2.1631	2.1729	2.1665	3.0003e-03	0.0000e+00
63	EMPTY	2.1631	2.1777	2.1707	2.9856e-03	0.0000e+00
64	EMPTY	1.1182	1.1328	1.1273	2.3428e-03	0.0000e+00
65	EMPTY	1.1377	1.1523	1.1462	2.5743e-03	0.0000e+00
66	EMPTY	1.1572	1.1719	1.1589	2.8946e-03	0.0000e+00
67	EMPTY	1.1719	1.1768	1.1748	2.4164e-03	0.0000e+00
68	EMPTY	1.1816	1.1914	1.1858	2.2080e-03	0.0000e+00
69	EMPTY	1.1963	1.2012	1.2000	2.1065e-03	0.0000e+00
70	EMPTY	1.2109	1.2158	1.2110	6.9053e-04	0.0000e+00
71	EMPTY	1.2256	1.2354	1.2306	1.2041e-03	0.0000e+00
72	EMPTY	1.2402	1.2451	1.2416	2.2146e-03	0.0000e+00
73	EMPTY	1.2549	1.2646	1.2586	2.3261e-03	0.0000e+00
74	EMPTY	1.2646	1.2744	1.2696	1.2041e-03	0.0000e+00
75	EMPTY	1.2842	1.2891	1.2845	1.1714e-03	0.0000e+00
76	EMPTY	1.2939	1.2988	1.2975	2.2146e-03	0.0000e+00
77	EMPTY	1.3135	1.3184	1.3136	6.9053e-04	0.0000e+00
78	EMPTY	1.3281	1.3379	1.3328	1.3811e-03	0.0000e+00
79	EMPTY	1.3477	1.3525	1.3524	6.9053e-04	0.0000e+00
80	PAN020136	14.8099	29.6110	22.8406	3.9454e+00	8.7187e-01
81	PAN050136	35.4435	57.7213	45.6394	5.4254e+00	1.6839e+00
82	PAN070136	18.3754	41.8739	29.0581	7.3553e+00	8.7303e-01
83	PAN080136	5.4229	37.1612	21.9970	7.1902e+00	8.7174e-01
84	PAN090136	10.6284	44.0452	26.1146	8.1431e+00	8.7245e-01
85	PAN100136	5.5094	32.4412	18.7129	7.0749e+00	8.7126e-01
86	PAN105136	2.3688	18.3142	10.0348	3.9452e+00	8.7036e-01
87	PAN110136	1.4754	17.9548	9.2314	3.5873e+00	8.7031e-01
88	PAN115136	-1.3798	15.0996	8.2683	3.2251e+00	8.7025e-01
89	PAN120136	1.2626	16.8266	8.2634	4.2017e+00	8.7025e-01
90	PAN125136	-2.1413	24.4853	12.0173	5.6909e+00	8.7052e-01
91	PAN130136	5.3693	27.6472	15.3760	5.5505e+00	8.7085e-01
92	PAN120048	6.8153	31.3056	22.6966	5.4645e+00	8.7185e-01
93	PAN130048	13.3751	40.5358	24.1463	4.7846e+00	8.7209e-01
94	PAN120224	5.5637	23.1876	15.2942	4.1446e+00	8.7084e-01
95	PAN130224	9.7644	33.4918	19.2370	5.6473e+00	8.7133e-01
96	PAN120312	3.8985	22.8957	15.5684	4.3627e+00	8.7087e-01
97	PAN130312	20.0713	36.1693	25.8559	3.4811e+00	8.7240e-01
98	PAB000136	39.7245	40.5485	40.1273	1.9066e-01	5.8861e-01
99	PAB100136	33.5474	34.1425	33.9025	1.4012e-01	5.8616e-01
100	PAB125136	31.9399	32.9928	32.2393	2.1634e-01	5.8557e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.1042	40.5690	39.8488	3.6350e-01	7.5659e-01
102	PRV000001	19.4744	19.5965	19.5794	4.2787e-02	7.5160e-01
103	PSR000001	29.4347	29.8009	29.6324	1.1799e-01	7.5365e-01
104	PFM000001	60.4177	62.3403	61.4486	4.3252e-01	5.2307e-01
105	PAN000136	214.2778	239.9125	229.4664	5.5271e+00	4.9533e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0096	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-2.4072	-7.4047	1.8599e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0056	1.7115e-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	177.0245	177.4151	177.2276	1.1133e-01	1.3367e+00
113	VPW000002	207.1327	207.5233	207.2421	1.0559e-01	1.4840e+00
114	VPW000003	255.8256	256.2162	256.0130	1.1811e-01	1.7366e+00
115	VPW000004	181.8171	182.4031	182.1571	1.1027e-01	1.3604e+00
116	VPW000005	242.7772	243.9491	243.2499	2.7364e-01	1.6692e+00
117	VPW000006	257.2454	257.6360	257.5421	1.0617e-01	1.7447e+00
118	IPW000001	959.3517	967.1610	963.2950	1.8705e+00	1.1114e+01
119	IPW000002	2194.0525	2201.8577	2199.4768	1.5415e+00	1.9171e+01
120	IPW000003	2242.4998	2250.2998	2245.8931	1.8398e+00	1.9504e+01
121	IPW000004	656.0715	658.0247	656.9897	4.5890e-01	5.5622e+00
122	IPW000005	432.7429	436.1605	434.3051	6.2384e-01	3.9714e+00
123	IPW000006	446.8149	448.7681	447.7912	5.0301e-01	4.0638e+00
124	EMPTY	-0.0293	-0.0098	-0.0199	4.0482e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	3.1644e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0146	3.4173e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	3.3029e-03	0.0000e+00
128	IHT000001	220.1247	223.2497	221.8591	6.3704e-01	4.6618e+00
129	IHT000002	227.2987	229.4471	228.5175	5.5742e-01	4.6938e+00
130	IHT000003	228.9889	231.1373	230.1100	5.5075e-01	4.7016e+00
131	IHT000004	225.1315	227.0846	226.0807	5.5805e-01	4.6820e+00
132	IHT000005	222.6262	224.5793	223.5714	5.3577e-01	4.6699e+00
133	IHT000006	216.3799	218.5284	217.5205	5.4727e-01	4.6413e+00
134	IHT000007	225.7212	227.6743	226.8851	4.9750e-01	4.6859e+00
135	IHT000008	223.3248	225.2779	224.2702	4.4531e-01	4.6733e+00
136	IHT000009	223.7042	225.8526	224.7783	5.1486e-01	4.6757e+00
137	IHT000010	54.4283	57.7486	56.2603	6.5541e-01	4.1384e+00
138	IHT000011	223.4713	226.5963	225.1276	6.6291e-01	4.6774e+00
139	IHT000012	219.5237	222.6487	221.1175	6.7700e-01	4.6582e+00
140	IHT000013	158.5938	161.3281	160.1211	6.3710e-01	4.4016e+00
141	IHT000014	219.5538	223.0694	221.5811	6.9686e-01	4.6605e+00
142	IHT000015	163.7620	166.8870	165.3207	6.0295e-01	4.4208e+00
143	IHT000016	152.5841	155.3185	153.9513	5.6359e-01	4.3795e+00
144	IHT000017	183.0003	186.1253	184.3753	7.2968e-01	4.4955e+00
145	IHT000018	184.3074	188.0183	186.1864	7.0132e-01	4.5029e+00
146	IHT000019	179.4546	181.9937	180.6070	5.6806e-01	4.4802e+00
147	IHT000020	184.5177	187.6427	185.6778	5.8449e-01	4.5008e+00
148	IHT000021	-3.0086	0.7024	-1.3797	7.7986e-01	4.1000e+00
149	IHT000022	159.0708	161.8051	160.4223	6.0598e-01	4.4027e+00
150	IHT000023	180.7317	183.2708	181.8019	5.8293e-01	4.4850e+00
151	IHT000024	144.9632	147.5023	146.1859	5.4076e-01	4.3528e+00
152	IHT000025	179.5486	181.6970	180.7516	5.2846e-01	4.4807e+00
153	IHT000026	181.6932	184.2323	182.9784	5.9200e-01	4.4898e+00
154	IHT000027	155.4237	157.7674	156.5644	5.7637e-01	4.3888e+00
155	IHT000028	157.1552	160.2802	158.7724	6.5440e-01	4.3967e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.4012	183.7215	182.1278	6.4157e-01	4.4863e+00
157	IHT000030	184.1609	187.4812	185.6141	6.2410e-01	4.5006e+00
158	IHT000031	181.6181	184.7431	183.0361	6.0978e-01	4.4900e+00
159	IHT000032	184.0858	187.4061	185.4374	6.4094e-01	4.4999e+00
160	IHT000033	183.9130	187.2333	185.3623	6.3514e-01	4.4995e+00
161	IHT000034	161.5159	164.6409	162.7660	5.2940e-01	4.4113e+00
162	IHT000035	213.3714	216.6917	214.9026	5.4585e-01	4.6291e+00
163	IHT000036	159.4013	162.1357	160.7373	5.1654e-01	4.4038e+00

Velocity 1 = 0.019699 (ft/sec)

Velocity 2 = 0.000999 (ft/sec)

Pressure Drop = 0.005600 (psi)

Tsat in = 0.089691 (deg F) Tsat out = 0.263306 (deg F)

Phi inner = 3.118774 (kBtu/hr-ft2) Phi outer = 0.208099 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0508	0.0601
1	TRF000002	0.0126	0.0149
2	TFM000001	0.9658	1.0919
3	TIN000001	1.0629	1.2131
4	TRV000001	1.1171	1.2485
5	TSR000001	2.7919	1.8898
6	TAO020136	2.3113	1.7086
7	TAO050136	0.8544	0.5347
8	TAO070136	0.9603	0.6231
9	TAO080136	1.5867	1.0711
10	TAO090136	0.9170	0.4970
11	TAO100136	0.9839	0.5504
12	TAO105136	0.7610	0.4158
13	TAO110136	0.3576	0.3684
14	TAO115136	0.9825	0.5345
15	TAO120136	0.8784	0.4383
16	TAO125136	0.5705	0.3094
17	TAO130136	1.1236	0.5900
18	TAO120048	0.9236	0.8640
19	TAO130048	0.8831	0.4435
20	TAO120224	1.1490	0.5783
21	TAO130224	1.1849	0.6450
22	TAO120312	1.1188	0.5738
23	TAO130312	0.8383	0.4230
24	TRT020000	0.7766	0.4959
25	TRT070000	0.8299	0.4589
26	TRT100000	0.8562	0.4275
27	TRT120000	0.7709	0.3912
28	TRT125000	0.8324	0.8312
29	TRT130000	0.8819	0.4347
30	EMPTY	0.0643	0.1619
31	TAF050136	1.2958	1.1291
32	TAF070136	1.1076	0.8764
33	TAF080136	0.9591	0.5397
34	TAF090136	1.1741	1.2463
35	TAF100136	1.0381	0.7294
36	TAF105136	1.0851	0.7486
37	TAF110136	1.0515	0.7065
38	TAF115136	1.1297	0.7419
39	TAF120136	1.0111	0.5821
40	TAF125136	1.1617	0.7358
41	TAF130136	1.1471	0.7172
42	TAF120048	1.1330	0.7054
43	TAF130048	1.0639	0.6361
44	TAF120224	1.1667	0.7645
45	TAF130224	1.2149	0.7731

#	Name	Abs Diff	%Diff
46	EMPTY	0.0552	0.1450
47	EMPTY	0.0138	0.0349
48	TAI130048	0.8560	0.4470
49	TAI130136	0.9271	0.4680
50	TAI130224	0.9725	0.4821
51	TAI130312	1.0149	0.5374
52	TRR130000	0.0350	0.0304
53	TSI000001	0.0710	0.1191
54	TSI000002	0.1952	0.2317
55	TSO000001	0.0368	0.0638
56	TSO000002	0.0787	0.1119
57	TAF020136	1.1155	1.1609
58	TAF120312	1.0573	0.6709
59	TAF130312	0.9714	0.5770
60	EMPTY	0.0239	1.0885
61	EMPTY	0.0233	1.0627
62	EMPTY	0.0240	1.0956
63	EMPTY	0.0224	1.0214
64	EMPTY	0.0102	0.8967
65	EMPTY	0.0107	0.9249
66	EMPTY	0.0092	0.7876
67	EMPTY	0.0103	0.8691
68	EMPTY	0.0099	0.8280
69	EMPTY	0.0104	0.8592
70	EMPTY	0.0105	0.8596
71	EMPTY	0.0101	0.8141
72	EMPTY	0.0092	0.7355
73	EMPTY	0.0097	0.7648
74	EMPTY	0.0103	0.8047
75	EMPTY	0.0101	0.7802
76	EMPTY	0.0094	0.7193
77	EMPTY	0.0095	0.7180
78	EMPTY	0.0099	0.7373
79	EMPTY	0.0092	0.6757
80	PAN020136	0.3921	1.7467
81	PAN050136	0.1861	0.4094
82	PAN070136	2.1194	6.7979
83	PAN080136	0.0717	0.3249
84	PAN090136	1.0818	3.9777
85	PAN100136	0.2472	1.3038
86	PAN105136	2.2522	28.9389
87	PAN110136	1.3016	12.3574
88	PAN115136	1.8524	18.3031
89	PAN120136	1.6938	25.7824
90	PAN125136	1.2604	11.7171
91	PAN130136	0.0077	0.0501
92	PAN120048	3.1494	16.1118
93	PAN130048	4.4388	15.5284
94	PAN120224	1.9837	11.4811
95	PAN130224	0.1297	0.6788
96	PAN120312	1.1460	6.8564
97	PAN130312	1.3962	5.7082
98	PAB000136	0.0605	0.1505
99	PAB100136	0.0586	0.1726
100	PAB125136	0.1456	0.4496

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1343	0.3359
102	PRV000001	0.1050	0.5334
103	PSR000001	0.0000	0.0000
104	PFM000001	0.1117	0.1814
105	PAN000136	0.1557	0.0679
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0000	0.0000
108	EMPTY	0.0556	0.7566
109	EMPTY	0.0004	7.6923
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	50.0000
112	VPW000001	0.0313	0.0177
113	VPW000002	0.0078	0.0038
114	VPW000003	0.0352	0.0137
115	VPW000004	0.0078	0.0043
116	VPW000005	0.6211	0.2560
117	VPW000006	0.0898	0.0348
118	IPW000001	20.5380	2.1785
119	IPW000002	20.5671	0.9264
120	IPW000003	24.7644	1.0906
121	IPW000004	4.2089	0.6448
122	IPW000005	0.6639	0.1531
123	IPW000006	3.0371	0.6737
124	EMPTY	0.0023	13.0682
125	EMPTY	0.0014	11.4754
126	EMPTY	0.0012	8.9552
127	EMPTY	0.0001	0.5952
128	IHT000001	0.0234	0.0105
129	IHT000002	0.0234	0.0102
130	IHT000003	0.0820	0.0356
131	IHT000004	0.0312	0.0138
132	IHT000005	0.0352	0.0157
133	IHT000006	0.0859	0.0395
134	IHT000007	0.1953	0.0862
135	IHT000008	0.1446	0.0645
136	IHT000009	0.0664	0.0296
137	IHT000010	0.1289	0.2296
138	IHT000011	0.0273	0.0121
139	IHT000012	0.0157	0.0071
140	IHT000013	0.1211	0.0757
141	IHT000014	0.6367	0.2882
142	IHT000015	0.0703	0.0425
143	IHT000016	0.0352	0.0229
144	IHT000017	0.2618	0.1418
145	IHT000018	0.0234	0.0126
146	IHT000019	0.0352	0.0195
147	IHT000020	0.0899	0.0484
148	IHT000021	0.0273	1.9403
149	IHT000022	0.1250	0.0780
150	IHT000023	0.0547	0.0301
151	IHT000024	0.0429	0.0293
152	IHT000025	0.0390	0.0216
153	IHT000026	0.0196	0.0107
154	IHT000027	0.0938	0.0600
155	IHT000028	0.0508	0.0320

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0742	0.0407
157	IHT000030	0.0782	0.0421
158	IHT000031	0.0469	0.0256
159	IHT000032	0.0195	0.0105
160	IHT000033	0.0078	0.0042
161	IHT000034	0.0195	0.0120
162	IHT000035	0.5039	0.2350
163	IHT000036	0.0235	0.0146

Velocity 1 = 16.0395 (ft/sec) (+/- 1.7874 %)
Velocity 2 = 13.4129 (ft/sec) (+/- 1.7033 %)
Pressure drop = 3.5668 (psi)
Tsat in = 267.7524 (deg F) Tsat out = 262.5088 (deg F)
Phi inner = 300.1738 (kBtu/hr-ft2) (+/- 1.2351 %)
Phi outer = 299.0793 (kBtu/hr-ft2) (+/- 1.2639 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.2466	85.0931	84.6361	1.6756e-01	1.9001e+00
1	TRF000002	84.5785	84.9996	84.8648	1.1847e-01	1.9001e+00
2	TFM000001	84.9267	85.8734	85.3685	2.0364e-01	1.9002e+00
3	TIN000001	84.1529	84.8915	84.4698	1.3977e-01	1.9001e+00
4	TRV000001	86.0874	86.9245	86.4972	1.8081e-01	1.9002e+00
5	TSR000001	150.8882	152.3804	151.5935	3.0217e-01	1.9045e+00
6	TAO020136	138.9264	141.8546	140.5103	5.3799e-01	1.9033e+00
7	TAO050136	170.1424	172.6877	170.9118	5.7244e-01	1.9068e+00
8	TAO070136	163.1752	167.8456	165.0490	1.1162e+00	1.9061e+00
9	TAO080136	194.2979	195.6468	194.7733	3.3045e-01	1.9105e+00
10	TAO090136	200.4076	202.2358	201.0666	4.2316e-01	1.9115e+00
11	TAO100136	193.8050	194.9657	194.3080	3.0791e-01	1.9104e+00
12	TAO105136	198.9599	200.4105	199.4283	2.8873e-01	1.9113e+00
13	TAO110136	96.4880	97.3196	96.8996	1.8512e-01	1.9005e+00
14	TAO115136	201.1832	202.2440	201.6846	2.3303e-01	1.9116e+00
15	TAO120136	219.6792	220.5376	220.1446	2.2678e-01	1.9151e+00
16	TAO125136	201.6317	207.1992	203.4302	1.1907e+00	1.9120e+00
17	TAO130136	209.1983	210.0536	209.6026	2.3334e-01	1.9131e+00
18	TAO120048	108.5872	109.7231	109.1407	2.8498e-01	1.9010e+00
19	TAO130048	219.5470	220.6866	220.3211	2.2152e-01	1.9152e+00
20	TAO120224	216.2408	217.5771	217.0305	2.8847e-01	1.9145e+00
21	TAO130224	201.0176	202.3540	201.6646	3.1174e-01	1.9116e+00
22	TAO120312	214.1270	215.4669	214.9041	2.9791e-01	1.9141e+00
23	TAO130312	217.9159	218.9636	218.2856	2.0228e-01	1.9148e+00
24	TRT020000	166.8031	167.9913	167.5239	2.5547e-01	1.9064e+00
25	TRT070000	196.9599	197.8371	197.3580	2.2064e-01	1.9109e+00
26	TRT100000	220.3459	221.2015	220.6280	2.0402e-01	1.9152e+00
27	TRT120000	217.1892	218.0469	217.6199	2.0868e-01	1.9146e+00
28	TRT125000	100.0121	100.7386	100.3439	1.9293e-01	1.9006e+00
29	TRT130000	222.9924	223.6577	223.3347	1.8183e-01	1.9158e+00
30	EMPTY	39.3761	40.2940	39.7526	2.0082e-01	1.9011e+00
31	TAF050136	117.6121	119.0411	118.4372	3.2073e-01	1.9016e+00
32	TAF070136	131.5702	133.5866	132.6162	4.7878e-01	1.9026e+00
33	TAF080136	192.0822	194.1045	192.9760	5.5040e-01	1.9102e+00
34	TAF090136	96.0079	96.9470	96.4214	2.8322e-01	1.9005e+00
35	TAF100136	152.1258	154.0254	153.0860	4.2462e-01	1.9046e+00
36	TAF105136	155.5128	157.7813	156.5278	4.5664e-01	1.9050e+00
37	TAF110136	160.5731	161.9586	161.1632	3.2147e-01	1.9056e+00
38	TAF115136	164.5694	166.5432	165.2324	3.7897e-01	1.9061e+00
39	TAF120136	189.6511	192.8389	191.0272	6.5577e-01	1.9098e+00
40	TAF125136	171.2080	172.7725	172.0326	3.9631e-01	1.9070e+00
41	TAF130136	173.8353	175.6000	174.6557	3.1622e-01	1.9074e+00
42	TAF120048	174.6671	176.7410	175.5879	3.8769e-01	1.9075e+00
43	TAF130048	183.0476	184.5113	183.6531	3.3150e-01	1.9087e+00
44	TAF120224	164.7790	166.6548	165.6637	3.9795e-01	1.9062e+00
45	TAF130224	170.5757	172.3577	171.2845	4.2682e-01	1.9069e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1078	2.1906e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7113	1.2451e-01	1.9011e+00
48	TAI130048	212.2390	214.0573	213.1580	4.1894e-01	1.9138e+00
49	TAI130136	219.3438	220.1042	219.7395	1.9712e-01	1.9150e+00
50	TAI130224	222.7190	224.1488	223.3975	3.4312e-01	1.9158e+00
51	TAI130312	208.7917	210.0404	209.4028	2.8704e-01	1.9130e+00
52	TRR130000	122.8003	124.6331	123.6639	4.0285e-01	1.9019e+00
53	TSI000001	59.5261	60.1702	59.7927	1.5531e-01	1.9001e+00
54	TSI000002	83.3067	84.5689	83.8912	3.3271e-01	1.9001e+00
55	TSO000001	57.3157	57.9643	57.5579	1.6865e-01	1.9001e+00
56	TSO000002	71.3079	72.0538	71.6446	1.9882e-01	1.9000e+00
57	TAF020136	94.7697	96.8692	95.7022	5.7567e-01	1.9004e+00
58	TAF120312	170.5824	172.8487	171.7220	4.2840e-01	1.9070e+00
59	TAF130312	183.7357	185.5865	184.5271	3.7214e-01	1.9088e+00
60	EMPTY	2.5830	2.6025	2.5926	5.0262e-03	0.0000e+00
61	EMPTY	2.5830	2.5928	2.5869	4.0673e-03	0.0000e+00
62	EMPTY	2.5684	2.5879	2.5800	3.2554e-03	0.0000e+00
63	EMPTY	2.5732	2.5879	2.5814	3.0309e-03	0.0000e+00
64	EMPTY	1.2988	1.3135	1.3081	2.4662e-03	0.0000e+00
65	EMPTY	1.3232	1.3281	1.3258	2.4642e-03	0.0000e+00
66	EMPTY	1.3379	1.3428	1.3380	6.9053e-04	0.0000e+00
67	EMPTY	1.3477	1.3574	1.3525	9.8648e-04	0.0000e+00
68	EMPTY	1.3574	1.3672	1.3620	1.5314e-03	0.0000e+00
69	EMPTY	1.3721	1.3867	1.3770	1.9730e-03	0.0000e+00
70	EMPTY	1.3867	1.3965	1.3873	1.8821e-03	0.0000e+00
71	EMPTY	1.4014	1.4063	1.4058	1.4797e-03	0.0000e+00
72	EMPTY	1.4111	1.4209	1.4160	9.8648e-04	0.0000e+00
73	EMPTY	1.4307	1.4355	1.4310	1.1714e-03	0.0000e+00
74	EMPTY	1.4404	1.4502	1.4439	2.4244e-03	0.0000e+00
75	EMPTY	1.4551	1.4600	1.4582	2.3675e-03	0.0000e+00
76	EMPTY	1.4600	1.4746	1.4688	2.3531e-03	0.0000e+00
77	EMPTY	1.4795	1.4844	1.4842	9.6655e-04	0.0000e+00
78	EMPTY	1.4990	1.5039	1.5011	2.4344e-03	0.0000e+00
79	EMPTY	1.5186	1.5234	1.5191	1.6028e-03	0.0000e+00
80	PAN020136	-5.4842	15.8018	7.4689	4.4677e+00	8.7020e-01
81	PAN050136	4.7733	33.3073	14.2460	6.3984e+00	1.6804e+00
82	PAN070136	-0.6981	28.8277	15.2824	7.0519e+00	8.7084e-01
83	PAN080136	-2.0539	19.4610	7.5118	6.3732e+00	8.7020e-01
84	PAN090136	3.6857	28.3286	13.7839	6.1563e+00	8.7068e-01
85	PAN100136	-12.1145	11.9944	2.2395	6.1284e+00	8.7002e-01
86	PAN105136	-5.4132	13.2788	4.7400	4.7132e+00	8.7008e-01
87	PAN110136	-5.3148	15.8186	6.1506	4.7225e+00	8.7014e-01
88	PAN115136	-2.6005	15.7100	5.2150	3.7896e+00	8.7010e-01
89	PAN120136	-6.8245	11.9438	-1.1178	5.8341e+00	8.7000e-01
90	PAN125136	1.8260	32.4961	14.1551	6.8481e+00	8.7072e-01
91	PAN130136	-3.0230	12.3884	6.7625	3.8256e+00	8.7016e-01
92	PAN120048	-8.9013	38.7061	13.5093	8.9565e+00	8.7066e-01
93	PAN130048	-1.9600	35.7292	17.4156	6.8731e+00	8.7109e-01
94	PAN120224	-5.0412	22.8824	10.4785	6.1202e+00	8.7039e-01
95	PAN130224	-8.6225	18.2330	9.1647	5.3133e+00	8.7030e-01
96	PAN120312	-6.7826	18.7758	6.2148	7.2038e+00	8.7014e-01
97	PAN130312	1.7607	27.0140	14.0364	6.4256e+00	8.7071e-01
98	PAB000136	39.9076	40.5943	40.2583	1.5820e-01	5.8867e-01
99	PAB100136	37.4384	38.0335	37.7890	1.4699e-01	5.8764e-01
100	PAB125136	36.6549	37.1584	36.8554	1.0701e-01	5.8727e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.2263	40.8132	40.1247	3.3340e-01	7.5668e-01
102	PRV0000001	19.5965	19.7186	19.6063	3.3453e-02	7.5160e-01
103	PSR0000001	34.9279	35.1720	35.0280	5.8828e-02	7.5510e-01
104	PFM0000001	38.8113	40.2761	39.5144	2.4359e-01	5.0967e-01
105	PAN000136	82.4418	108.5344	98.7474	4.9076e+00	4.9262e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0088	1.9730e-03	0.0000e+00
108	EMPTY	-10.0000	-1.1523	-5.8017	3.1244e+00	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	0.0002	9.6655e-04	0.0000e+00
112	VPW0000001	177.0245	177.6104	177.3135	1.1995e-01	1.3371e+00
113	VPW0000002	207.1327	207.5233	207.3241	9.2456e-02	1.4844e+00
114	VPW0000003	256.0209	256.6068	256.1888	1.4770e-01	1.3775e+00
115	VPW0000004	182.0125	182.5984	182.2821	1.2409e-01	1.3610e+00
116	VPW0000005	242.5819	243.3631	242.9570	1.9666e-01	1.6677e+00
117	VPW0000006	257.2454	258.0266	257.7882	1.5926e-01	1.7460e+00
118	IPW0000001	932.0189	945.6852	940.6484	3.9065e+00	1.0992e+01
119	IPW0000002	2215.5164	2225.2727	2218.4824	2.1679e+00	1.9307e+01
120	IPW0000003	2261.9998	2273.7000	2267.6157	2.0712e+00	1.9660e+01
121	IPW0000004	651.1887	654.1184	652.4097	7.8454e-01	5.5285e+00
122	IPW0000005	432.2547	435.1841	433.6021	7.4182e-01	3.9666e+00
123	IPW0000006	449.7446	451.2095	450.4279	4.0673e-01	4.0819e+00
124	EMPTY	-0.0244	-0.0098	-0.0185	3.3146e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0125	2.6396e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0140	3.6924e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.6911e-03	0.0000e+00
128	IHT0000001	220.7106	222.8591	221.6521	5.2747e-01	4.6608e+00
129	IHT0000002	227.4940	229.2518	228.2831	4.7508e-01	4.6927e+00
130	IHT0000003	228.9889	231.1373	230.0241	4.6897e-01	4.7012e+00
131	IHT0000004	225.1315	227.0846	225.9518	4.6522e-01	4.6814e+00
132	IHT0000005	222.6262	224.5793	223.4659	4.4860e-01	4.6694e+00
133	IHT0000006	216.3799	218.5284	217.3760	4.8848e-01	4.6406e+00
134	IHT0000007	225.7212	227.8696	226.6390	4.5720e-01	4.6847e+00
135	IHT0000008	223.1295	225.2779	224.0592	4.9215e-01	4.6723e+00
136	IHT0000009	223.5089	225.8526	224.4893	5.2865e-01	4.6743e+00
137	IHT0000010	55.2096	57.3580	56.1978	4.8232e-01	4.1383e+00
138	IHT0000011	224.0572	226.4010	225.1510	5.1750e-01	4.6775e+00
139	IHT0000012	220.1097	222.2581	221.1253	5.0992e-01	4.6583e+00
140	IHT0000013	159.1797	161.3281	160.1797	4.6961e-01	4.4018e+00
141	IHT0000014	219.9444	222.2882	221.1826	5.3468e-01	4.6586e+00
142	IHT0000015	164.3479	166.4964	165.3441	4.8848e-01	4.4208e+00
143	IHT0000016	152.9747	155.1232	154.0138	4.8719e-01	4.3797e+00
144	IHT0000017	183.1956	185.3441	184.5003	5.1515e-01	4.4960e+00
145	IHT0000018	185.0886	187.8230	186.2450	5.3936e-01	4.5032e+00
146	IHT0000019	179.2593	181.6031	180.5992	6.0362e-01	4.4801e+00
147	IHT0000020	184.5177	186.6662	185.5802	5.7067e-01	4.5004e+00
148	IHT0000021	-2.8132	-0.0789	-1.3601	6.9717e-01	4.1000e+00
149	IHT0000022	159.0708	161.4145	160.2153	5.5385e-01	4.4019e+00
150	IHT0000023	180.3411	182.8801	181.7042	5.4030e-01	4.4846e+00
151	IHT0000024	144.9632	146.9163	146.1000	4.9235e-01	4.3525e+00
152	IHT0000025	179.5486	181.8923	180.7047	5.3792e-01	4.4806e+00
153	IHT0000026	181.4979	184.2323	182.8495	5.5501e-01	4.4893e+00
154	IHT0000027	155.2284	157.7674	156.4159	5.5781e-01	4.3882e+00
155	IHT0000028	157.1552	159.6942	158.5615	5.8793e-01	4.3959e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.7918	183.1355	181.9325	6.0278e-01	4.4855e+00
157	IHT000030	184.1609	186.3094	185.3251	6.0997e-01	4.4994e+00
158	IHT000031	181.4228	183.5712	182.6455	5.6194e-01	4.4884e+00
159	IHT000032	183.8905	186.0389	185.0429	5.5838e-01	4.4982e+00
160	IHT000033	183.9130	186.0615	184.9756	5.7067e-01	4.4980e+00
161	IHT000034	161.5159	163.4690	162.5590	4.4224e-01	4.4105e+00
162	IHT000035	212.9808	215.3245	214.2308	4.6522e-01	4.6260e+00
163	IHT000036	159.4013	161.7450	160.4638	4.3074e-01	4.4028e+00

Velocity 1 = 16.0049 (ft/sec) (+/- 1.7884 %)
Velocity 2 = 13.4127 (ft/sec) (+/- 1.7033 %)
Pressure drop = 3.5621 (psi)
Tsat in = 267.7117 (deg F) Tsat out = 262.7009 (deg F)
Phi inner = 299.8629 (kBtu/hr-ft2) (+/- 1.2352 %)
Phi outer = 299.3635 (kBtu/hr-ft2) (+/- 1.2636 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.0349	84.8816	84.6149	2.0421e-01	1.9001e+00
1	TRF000002	84.5785	84.9996	84.8522	1.4265e-01	1.9001e+00
2	TFM000001	84.7172	85.5583	85.1794	2.1755e-01	1.9002e+00
3	TIN000001	84.2579	84.7865	84.5035	1.3893e-01	1.9001e+00
4	TRV000001	85.9802	86.7158	86.3547	1.9556e-01	1.9002e+00
5	TSR000001	151.5836	153.0770	152.3092	4.1630e-01	1.9046e+00
6	TAO020136	138.4205	140.4415	139.3991	5.0278e-01	1.9032e+00
7	TAO050136	169.9478	172.5911	171.0682	6.0452e-01	1.9069e+00
8	TAO070136	163.3751	168.3411	165.2159	1.1688e+00	1.9061e+00
9	TAO080136	194.2979	195.6468	194.7308	2.8616e-01	1.9105e+00
10	TAO090136	200.4060	202.1409	201.2281	3.7444e-01	1.9116e+00
11	TAO100136	193.8050	195.5452	194.5014	4.6658e-01	1.9104e+00
12	TAO105136	198.9604	200.1202	199.5366	2.8170e-01	1.9113e+00
13	TAO110136	95.9695	96.6971	96.3706	1.6826e-01	1.9005e+00
14	TAO115136	201.2796	202.1476	201.7000	2.4713e-01	1.9116e+00
15	TAO120136	219.9640	220.7281	220.3617	2.1131e-01	1.9152e+00
16	TAO125136	199.7059	207.9655	204.5004	2.2359e+00	1.9121e+00
17	TAO130136	209.1092	210.3388	209.7043	2.6282e-01	1.9131e+00
18	TAO120048	109.7211	110.8565	110.3736	3.3811e-01	1.9011e+00
19	TAO130048	219.5470	220.7810	220.3893	2.2919e-01	1.9152e+00
20	TAO120224	216.9067	217.9579	217.4843	2.6354e-01	1.9146e+00
21	TAO130224	201.0146	202.2625	201.5613	2.6671e-01	1.9116e+00
22	TAO120312	213.8404	215.5625	214.8887	3.3027e-01	1.9141e+00
23	TAO130312	218.1061	218.9636	218.4985	2.1291e-01	1.9148e+00
24	TRT020000	166.7038	168.0901	167.5120	2.6265e-01	1.9064e+00
25	TRT070000	197.0586	198.2260	197.5527	2.4228e-01	1.9109e+00
26	TRT100000	219.7769	221.1075	220.6583	2.7351e-01	1.9152e+00
27	TRT120000	217.4731	218.3333	217.8027	2.3062e-01	1.9147e+00
28	TRT125000	98.3560	99.1881	98.7980	1.8943e-01	1.9006e+00
29	TRT130000	222.9935	223.9423	223.4142	2.0758e-01	1.9158e+00
30	EMPTY	39.3761	40.2940	39.7755	2.4008e-01	1.9011e+00
31	TAF050136	117.5115	119.3474	118.4166	3.9980e-01	1.9016e+00
32	TAF070136	131.5702	133.3857	132.5556	4.2556e-01	1.9026e+00
33	TAF080136	191.9856	194.0075	192.9836	5.0815e-01	1.9102e+00
34	TAF090136	96.4244	97.3633	96.8836	2.7845e-01	1.9005e+00
35	TAF100136	152.3263	154.2251	153.2539	4.3919e-01	1.9047e+00
36	TAF105136	156.0023	157.8807	156.6618	4.4087e-01	1.9051e+00
37	TAF110136	160.5713	162.4529	161.3687	4.2057e-01	1.9056e+00
38	TAF115136	164.6673	166.8380	165.2915	4.1761e-01	1.9061e+00
39	TAF120136	190.0373	192.0669	190.9538	4.9436e-01	1.9098e+00
40	TAF125136	171.3049	173.5505	172.2471	4.1943e-01	1.9070e+00
41	TAF130136	174.2269	175.6000	174.8280	3.1805e-01	1.9074e+00
42	TAF120048	174.7654	177.0372	175.6670	4.1686e-01	1.9075e+00
43	TAF130048	183.1458	185.1932	183.8363	3.6756e-01	1.9087e+00
44	TAF120224	165.2728	166.4583	165.8374	2.9469e-01	1.9062e+00
45	TAF130224	170.6747	172.5550	171.5064	3.8250e-01	1.9069e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.9168	38.0848	2.4530e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6653	1.2960e-01	1.9011e+00
48	TAI130048	212.7182	214.4391	213.4907	3.4380e-01	1.9138e+00
49	TAI130136	219.4384	220.5793	220.0547	2.3927e-01	1.9151e+00
50	TAI130224	223.2902	224.7196	223.9081	3.3956e-01	1.9159e+00
51	TAI130312	209.2711	210.3287	209.7369	2.7262e-01	1.9131e+00
52	TRR130000	123.6132	125.1400	124.2369	3.6624e-01	1.9020e+00
53	TSI000001	59.5245	60.3844	59.9512	1.6949e-01	1.9001e+00
54	TSI000002	83.0949	84.4631	83.8953	3.1675e-01	1.9001e+00
55	TSO000001	57.0992	57.8567	57.5449	1.7836e-01	1.9001e+00
56	TSO000002	71.2009	72.0538	71.6446	2.2719e-01	1.9000e+00
57	TAF020136	94.8741	96.5548	95.6435	4.6639e-01	1.9004e+00
58	TAF120312	170.8772	173.2424	171.8008	4.8546e-01	1.9070e+00
59	TAF130312	184.0277	185.3919	184.6906	3.4819e-01	1.9088e+00
60	EMPTY	2.5879	2.6025	2.5961	3.8762e-03	0.0000e+00
61	EMPTY	2.5830	2.5928	2.5897	2.5894e-03	0.0000e+00
62	EMPTY	2.5781	2.5879	2.5829	1.5566e-03	0.0000e+00
63	EMPTY	2.5830	2.5879	2.5834	1.3381e-03	0.0000e+00
64	EMPTY	1.3037	1.3135	1.3086	9.8648e-04	0.0000e+00
65	EMPTY	1.3232	1.3281	1.3270	2.1065e-03	0.0000e+00
66	EMPTY	1.3379	1.3428	1.3383	1.3381e-03	0.0000e+00
67	EMPTY	1.3525	1.3574	1.3527	9.6655e-04	0.0000e+00
68	EMPTY	1.3623	1.3672	1.3625	9.6655e-04	0.0000e+00
69	EMPTY	1.3721	1.3818	1.3770	9.8648e-04	0.0000e+00
70	EMPTY	1.3867	1.3916	1.3871	1.3381e-03	0.0000e+00
71	EMPTY	1.4063	1.4160	1.4064	1.3811e-03	0.0000e+00
72	EMPTY	1.4111	1.4209	1.4160	9.8648e-04	0.0000e+00
73	EMPTY	1.4307	1.4355	1.4315	1.8950e-03	0.0000e+00
74	EMPTY	1.4404	1.4453	1.4438	2.2603e-03	0.0000e+00
75	EMPTY	1.4551	1.4600	1.4591	1.8950e-03	0.0000e+00
76	EMPTY	1.4648	1.4697	1.4695	9.6655e-04	0.0000e+00
77	EMPTY	1.4795	1.4893	1.4843	1.2041e-03	0.0000e+00
78	EMPTY	1.4990	1.5039	1.5021	2.3675e-03	0.0000e+00
79	EMPTY	1.5088	1.5234	1.5204	2.9413e-03	0.0000e+00
80	PAN020136	-2.2036	20.5320	7.7039	5.0078e+00	8.7021e-01
81	PAN050136	4.4682	30.2555	16.4768	6.0422e+00	1.6805e+00
82	PAN070136	-1.2321	27.4544	12.8990	6.6623e+00	8.7060e-01
83	PAN080136	-4.4190	21.4446	7.9360	6.5624e+00	8.7023e-01
84	PAN090136	0.4050	26.6502	14.3439	5.2302e+00	8.7074e-01
85	PAN100136	-10.2834	13.3677	5.6010	5.1389e+00	8.7011e-01
86	PAN105136	-6.6339	10.9137	2.3535	4.5491e+00	8.7002e-01
87	PAN110136	-6.8407	19.6333	5.3404	6.0853e+00	8.7010e-01
88	PAN115136	-4.3553	17.6173	6.1534	5.1785e+00	8.7014e-01
89	PAN120136	-6.7482	6.4506	-2.1752	4.3506e+00	8.7002e-01
90	PAN125136	-2.7517	26.3163	11.5901	6.6591e+00	8.7048e-01
91	PAN130136	-0.2001	28.0286	10.3590	6.0589e+00	8.7039e-01
92	PAN120048	-2.7215	25.3547	14.8612	7.2134e+00	8.7079e-01
93	PAN130048	3.2280	33.0589	15.7143	7.4614e+00	8.7089e-01
94	PAN120224	2.2830	19.4492	12.6407	3.6234e+00	8.7057e-01
95	PAN130224	-3.8160	18.0041	6.5478	4.7571e+00	8.7015e-01
96	PAN120312	-7.0115	19.2336	7.7956	5.7885e+00	8.7022e-01
97	PAN130312	1.9133	32.6598	14.4362	6.7033e+00	8.7075e-01
98	PAB000136	39.9076	40.6401	40.2308	1.8343e-01	5.8866e-01
99	PAB100136	37.3468	38.0335	37.6865	1.3563e-01	5.8760e-01
100	PAB125136	36.6549	38.1655	36.9753	2.6142e-01	5.8732e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.2263	40.6911	40.0515	4.0790e-01	7.5665e-01
102	PRV0000001	19.7186	19.7186	19.7186	1.9267e-06	7.5162e-01
103	PSR0000001	34.8058	35.1720	35.0426	7.1520e-02	7.5510e-01
104	PFM0000001	38.8113	40.0015	39.3441	2.7664e-01	5.0958e-01
105	PAN000136	80.6108	111.2809	98.6192	6.5529e+00	4.9262e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0090	1.8082e-03	0.0000e+00
108	EMPTY	-10.0000	-0.6396	-5.1242	3.1045e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0052	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0049	-0.0001	1.2041e-03	0.0000e+00
112	VPW0000001	177.0245	177.6104	177.3370	1.2478e-01	1.3373e+00
113	VPW0000002	207.1327	207.5233	207.3866	9.8648e-02	1.4847e+00
114	VPW0000003	256.0209	256.6068	256.2786	1.2124e-01	1.7380e+00
115	VPW0000004	182.0125	182.5984	182.3173	1.1272e-01	1.3611e+00
116	VPW0000005	242.3866	243.5584	243.0273	2.3689e-01	1.6680e+00
117	VPW0000006	257.6360	258.2219	257.9288	1.3811e-01	1.7467e+00
118	IPW0000001	941.7806	949.5900	945.8805	1.6382e+00	1.1020e+01
119	IPW0000002	2211.6140	2221.3704	2217.3501	2.8539e+00	1.9299e+01
120	IPW0000003	2261.9998	2269.7998	2264.8862	2.1664e+00	1.9641e+01
121	IPW0000004	651.6770	654.6067	652.8198	1.0834e+00	5.5315e+00
122	IPW0000005	431.7664	434.2076	432.8893	5.6016e-01	3.9617e+00
123	IPW0000006	448.2798	450.7212	449.3049	5.3352e-01	4.0742e+00
124	EMPTY	-0.0244	-0.0098	-0.0175	3.8321e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0134	3.3901e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0137	3.4173e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0176	3.1195e-03	0.0000e+00
128	IHT0000001	220.3200	223.2497	221.6013	5.9733e-01	4.6605e+00
129	IHT0000002	226.9080	230.0330	228.2519	6.3090e-01	4.6925e+00
130	IHT0000003	228.7936	231.5280	230.0592	6.1287e-01	4.7014e+00
131	IHT0000004	224.7408	227.2799	225.9323	5.9090e-01	4.6813e+00
132	IHT0000005	222.2356	224.5793	223.3878	5.6255e-01	4.6691e+00
133	IHT0000006	216.1846	218.5284	217.3291	5.3235e-01	4.6404e+00
134	IHT0000007	225.3306	227.8696	226.6390	5.6669e-01	4.6847e+00
135	IHT0000008	222.9342	225.2779	224.0749	5.4442e-01	4.6724e+00
136	IHT0000009	223.3135	225.6573	224.4619	5.2592e-01	4.6742e+00
137	IHT0000010	55.2096	57.9440	56.1314	5.7864e-01	4.1382e+00
138	IHT0000011	224.2525	226.2057	225.0885	5.0692e-01	4.6772e+00
139	IHT0000012	220.1097	222.2581	221.1370	4.7484e-01	4.6583e+00
140	IHT0000013	158.9844	161.5234	160.0977	5.1031e-01	4.4015e+00
141	IHT0000014	219.9444	222.4835	221.1826	6.0052e-01	4.6586e+00
142	IHT0000015	164.1526	166.3011	165.2035	4.7497e-01	4.4203e+00
143	IHT0000016	152.7794	154.7326	153.7520	4.6100e-01	4.3788e+00
144	IHT0000017	182.8050	185.9300	184.1996	7.7726e-01	4.4948e+00
145	IHT0000018	184.5027	187.4324	186.0067	6.6175e-01	4.5022e+00
146	IHT0000019	179.4546	181.9937	180.5875	4.9756e-01	4.4801e+00
147	IHT0000020	184.7130	187.0568	185.6231	5.0007e-01	4.5006e+00
148	IHT0000021	-2.6179	0.1164	-1.3601	5.9472e-01	4.1000e+00
149	IHT0000022	159.0708	161.4145	160.2466	5.0914e-01	4.4020e+00
150	IHT0000023	180.9270	183.2708	181.8331	4.9404e-01	4.4851e+00
151	IHT0000024	145.3538	147.1116	146.2133	4.2682e-01	4.3529e+00
152	IHT0000025	179.9392	181.6970	180.8415	4.5658e-01	4.4811e+00
153	IHT0000026	182.2792	184.2323	183.1386	4.2499e-01	4.4904e+00
154	IHT0000027	155.6190	157.7674	156.5448	4.6322e-01	4.3887e+00
155	IHT0000028	157.3505	160.4755	158.9638	7.1986e-01	4.3974e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	180.9871	183.9168	182.3817	7.2007e-01	4.4873e+00
157	IHT0000030	184.3562	187.0906	185.8134	7.2781e-01	4.5014e+00
158	IHT0000031	181.8134	184.5478	183.2587	7.0587e-01	4.4909e+00
159	IHT0000032	184.2811	187.0155	185.5546	6.7915e-01	4.5003e+00
160	IHT0000033	184.3036	186.8427	185.5107	6.6227e-01	4.5002e+00
161	IHT0000034	161.9065	163.8597	162.8754	5.0986e-01	4.4117e+00
162	IHT0000035	213.7620	215.9105	214.7190	5.7892e-01	4.6282e+00
163	IHT0000036	159.9872	162.1357	160.9052	5.0725e-01	4.4044e+00

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Velocity 1 = 0.034599 (ft/sec)

Velocity 2 = 0.000200 (ft/sec)

Pressure Drop = 0.004700 (psi)

Tsat in = 0.040710 (deg F) Tsat out = 0.192108 (deg F)

Phi inner = 0.310883 (kBtu/hr-ft2) Phi outer = 0.284180 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0212	0.0251
1	TRF000002	0.0126	0.0148
2	TFM000001	0.1891	0.2215
3	TIN000001	0.0337	0.0399
4	TRV000001	0.1425	0.1647
5	TSR000001	0.7157	0.4721
6	TAO020136	1.1112	0.7908
7	TAO050136	0.1564	0.0915
8	TAO070136	0.1669	0.1011
9	TAO080136	0.0425	0.0218
10	TAO090136	0.1615	0.0803
11	TAO100136	0.1934	0.0995
12	TAO105136	0.1083	0.0543
13	TAO110136	0.5290	0.5459
14	TAO115136	0.0154	0.0076
15	TAO120136	0.2171	0.0986
16	TAO125136	1.0702	0.5261
17	TAO130136	0.1017	0.0485
18	TAO120048	1.2329	1.1296
19	TAO130048	0.0682	0.0310
20	TAO120224	0.4538	0.2091
21	TAO130224	0.1033	0.0512
22	TAO120312	0.0154	0.0072
23	TAO130312	0.2129	0.0975
24	TRT020000	0.0119	0.0071
25	TRT070000	0.1947	0.0987
26	TRT100000	0.0303	0.0137
27	TRT120000	0.1828	0.0840
28	TRT125000	1.5459	1.5406
29	TRT130000	0.0795	0.0356
30	EMPTY	0.0229	0.0576
31	TAF050136	0.0206	0.0174
32	TAF070136	0.0606	0.0457
33	TAF080136	0.0076	0.0039
34	TAF090136	0.4622	0.4794
35	TAF100136	0.1679	0.1097
36	TAF105136	0.1340	0.0856
37	TAF110136	0.2055	0.1275
38	TAF115136	0.0591	0.0358
39	TAF120136	0.0734	0.0384
40	TAF125136	0.2145	0.1247
41	TAF130136	0.1723	0.0987
42	TAF120048	0.0791	0.0450
43	TAF130048	0.1832	0.0998
44	TAF120224	0.1737	0.1049
45	TAF130224	0.2219	0.1295

#	Name	Abs Diff	%Diff
46	EMPTY	0.0230	0.0604
47	EMPTY	0.0460	0.1158
48	TAI130048	0.3327	0.1561
49	TAI130136	0.3152	0.1434
50	TAI130224	0.5106	0.2286
51	TAI130312	0.3341	0.1595
52	TRR130000	0.5730	0.4634
53	TSI000001	0.1585	0.2651
54	TSI000002	0.0041	0.0049
55	TSO000001	0.0130	0.0226
56	TSO000002	0.0000	0.0000
57	TAF020136	0.0587	0.0613
58	TAF120312	0.0788	0.0459
59	TAF130312	0.1635	0.0886
60	EMPTY	0.0035	0.1350
61	EMPTY	0.0028	0.1082
62	EMPTY	0.0029	0.1124
63	EMPTY	0.0020	0.0775
64	EMPTY	0.0005	0.0382
65	EMPTY	0.0012	0.0905
66	EMPTY	0.0003	0.0224
67	EMPTY	0.0002	0.0148
68	EMPTY	0.0005	0.0367
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0002	0.0144
71	EMPTY	0.0006	0.0427
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0005	0.0349
74	EMPTY	0.0001	0.0069
75	EMPTY	0.0009	0.0617
76	EMPTY	0.0007	0.0477
77	EMPTY	0.0001	0.0067
78	EMPTY	0.0010	0.0666
79	EMPTY	0.0013	0.0856
80	PAN020136	0.2350	3.1464
81	PAN050136	2.2308	15.6591
82	PAN070136	2.3834	15.5957
83	PAN080136	0.4242	5.6471
84	PAN090136	0.5600	4.0627
85	PAN100136	3.3615	150.1005
86	PAN105136	2.3865	50.3481
87	PAN110136	0.8102	13.1727
88	PAN115136	0.9384	17.9942
89	PAN120136	1.0574	94.5965
90	PAN125136	2.5650	18.1207
91	PAN130136	3.5965	53.1830
92	PAN120048	1.3519	10.0072
93	PAN130048	1.7013	9.7688
94	PAN120224	2.1622	20.6346
95	PAN130224	2.6169	28.5541
96	PAN120312	1.5808	25.4361
97	PAN130312	0.3998	2.8483
98	PAB000136	0.0275	0.0683
99	PAB100136	0.1025	0.2712
100	PAB125136	0.1199	0.3253

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0732	0.1824
102	PRV000001	0.1123	0.5728
103	PSR000001	0.0146	0.0417
104	PFM000001	0.1703	0.4310
105	PAN000136	0.1282	0.1298
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	2.2727
108	EMPTY	0.6775	11.6776
109	EMPTY	0.0001	1.9608
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	150.0000
112	VPW000001	0.0235	0.0133
113	VPW000002	0.0625	0.0301
114	VPW000003	0.0898	0.0350
115	VPW000004	0.0352	0.0193
116	VPW000005	0.0703	0.0289
117	VPW000006	0.1406	0.0545
118	IPW000001	5.2321	0.5562
119	IPW000002	1.1323	0.0510
120	IPW000003	2.7295	0.1204
121	IPW000004	0.4101	0.0629
122	IPW000005	0.7128	0.1644
123	IPW000006	1.1230	0.2493
124	EMPTY	0.0010	5.4054
125	EMPTY	0.0009	7.2000
126	EMPTY	0.0003	2.1429
127	EMPTY	0.0010	6.0241
128	IHT000001	0.0508	0.0229
129	IHT000002	0.0312	0.0137
130	IHT000003	0.0351	0.0153
131	IHT000004	0.0195	0.0086
132	IHT000005	0.0781	0.0349
133	IHT000006	0.0469	0.0216
134	IHT000007	0.0000	0.0000
135	IHT000008	0.0157	0.0070
136	IHT000009	0.0274	0.0122
137	IHT000010	0.0664	0.1182
138	IHT000011	0.0625	0.0278
139	IHT000012	0.0117	0.0053
140	IHT000013	0.0820	0.0512
141	IHT000014	0.0000	0.0000
142	IHT000015	0.1406	0.0850
143	IHT000016	0.2618	0.1700
144	IHT000017	0.3007	0.1630
145	IHT000018	0.2383	0.1279
146	IHT000019	0.0117	0.0065
147	IHT000020	0.0429	0.0231
148	IHT000021	0.0000	0.0000
149	IHT000022	0.0313	0.0195
150	IHT000023	0.1289	0.0709
151	IHT000024	0.1133	0.0775
152	IHT000025	0.1368	0.0757
153	IHT000026	0.2891	0.1581
154	IHT000027	0.1289	0.0824
155	IHT000028	0.4023	0.2537

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#	Name	Abs Diff	%Diff
156	IHT000029	0.4492	0.2469
157	IHT000030	0.4883	0.2635
158	IHT000031	0.6132	0.3357
159	IHT000032	0.5117	0.2765
160	IHT000033	0.5351	0.2893
161	IHT000034	0.3164	0.1946
162	IHT000035	0.4882	0.2279
163	IHT000036	0.4414	0.2751

Velocity 1 = 14.0479 (ft/sec) (+/- 1.8647 %)
 Velocity 2 = 13.4129 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 1.4642 (psi)
 T_{sat} in = 267.5922 (deg F) T_{sat} out = 265.6233 (deg F)
 P_{hi} inner = 299.0550 (kBtu/hr-ft²) (+/- 1.2355 %)
 P_{hi} outer = 301.6075 (kBtu/hr-ft²) (+/- 1.2624 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft²)

	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.2466	84.8816	84.6234	1.7257e-01	1.9001e+00
1	TRF000002	84.5785	85.2100	84.8859	1.2907e-01	1.9001e+00
2	TFM000001	85.0315	85.8734	85.3979	1.8305e-01	1.9002e+00
3	TIN000001	84.4696	84.9973	84.7186	1.3276e-01	1.9001e+00
4	TRV000001	86.1901	87.0301	86.5474	2.3754e-01	1.9002e+00
5	TSR000001	145.5041	153.3761	150.0425	2.6700e+00	1.9043e+00
6	TAO020136	140.0376	141.7534	140.7486	3.8855e-01	1.9034e+00
7	TAO050136	179.4166	181.8493	180.5998	5.3048e-01	1.9082e+00
8	TAO070136	172.8949	177.4342	174.8149	9.6782e-01	1.9074e+00
9	TAO080136	207.1411	208.1911	207.6429	2.2543e-01	1.9127e+00
10	TAO090136	213.6341	215.1611	214.2034	3.6162e-01	1.9140e+00
11	TAO100136	207.1942	208.4409	207.7921	3.3804e-01	1.9127e+00
12	TAO105136	212.4406	213.5913	213.0084	3.1019e-01	1.9137e+00
13	TAO110136	96.5923	97.3190	96.9120	1.6355e-01	1.9005e+00
14	TAO115136	215.3940	217.0188	216.2962	3.6124e-01	1.9144e+00
15	TAO120136	235.2290	236.9274	236.0934	3.6331e-01	1.9185e+00
16	TAO125136	215.3209	224.9151	219.4080	2.0692e+00	1.9150e+00
17	TAO130136	224.9965	226.3093	225.4610	2.1952e-01	1.9162e+00
18	TAO120048	111.7826	112.8122	112.3052	2.6282e-01	1.9012e+00
19	TAO130048	236.6273	237.6616	237.1687	2.2823e-01	1.9187e+00
20	TAO120224	232.3750	233.8857	233.1075	2.8398e-01	1.9178e+00
21	TAO130224	215.6525	217.2634	216.6525	3.2005e-01	1.9144e+00
22	TAO120312	230.4019	231.7283	231.2319	2.8472e-01	1.9174e+00
23	TAO130312	234.2814	235.4118	234.8125	2.2984e-01	1.9182e+00
24	TRT020000	176.1818	177.1655	176.6895	2.4691e-01	1.9077e+00
25	TRT070000	209.8609	211.1149	210.5054	2.6899e-01	1.9133e+00
26	TRT100000	236.0247	237.1544	236.5633	2.8636e-01	1.9186e+00
27	TRT120000	233.4005	234.4396	233.9485	2.4197e-01	1.9180e+00
28	TRT125000	99.2882	99.9120	99.6168	1.7196e-01	1.9006e+00
29	TRT130000	239.1191	239.9647	239.4683	1.7195e-01	1.9193e+00
30	EMPTY	39.3761	40.0646	39.7985	2.1926e-01	1.9011e+00
31	TAF050136	122.4009	124.7407	123.4836	4.9864e-01	1.9019e+00
32	TAF070136	138.4125	140.6175	139.5337	5.9017e-01	1.9033e+00
33	TAF080136	204.7397	207.6019	206.0877	6.9395e-01	1.9124e+00
34	TAF090136	97.2577	98.5071	97.7951	2.5796e-01	1.9005e+00
35	TAF100136	162.1917	164.5723	163.1166	5.7895e-01	1.9058e+00
36	TAF105136	166.2383	168.1970	167.1109	5.2844e-01	1.9063e+00
37	TAF110136	171.3092	173.8606	172.3148	5.2787e-01	1.9070e+00
38	TAF115136	175.8735	177.4407	176.6807	3.1813e-01	1.9077e+00
39	TAF120136	205.4226	211.8183	208.4987	1.5089e+00	1.9129e+00
40	TAF125136	183.7494	185.5887	184.6875	3.8981e-01	1.9088e+00
41	TAF130136	186.8153	188.0796	187.6281	2.4574e-01	1.9093e+00
42	TAF120048	187.5599	189.1253	188.3386	3.6307e-01	1.9094e+00
43	TAF130048	197.0291	198.3828	197.6094	2.9794e-01	1.9109e+00
44	TAF120224	176.7800	178.6414	177.5718	3.6056e-01	1.9078e+00
45	TAF130224	183.2962	184.7685	183.8775	2.9592e-01	1.9087e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	2.1368e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7709	1.2303e-01	1.9011e+00
48	TAI130048	228.6102	230.3135	229.5647	4.1388e-01	1.9171e+00
49	TAI130136	235.6948	236.9175	236.1919	2.5572e-01	1.9185e+00
50	TAI130224	239.5931	241.1957	240.4266	4.4186e-01	1.9195e+00
51	TAI130312	224.3698	226.3658	225.5868	3.9635e-01	1.9162e+00
52	TRR130000	129.0927	130.5099	129.9225	2.8038e-01	1.9024e+00
53	TSI000001	59.5261	60.2781	59.9513	1.7344e-01	1.9001e+00
54	TSI000002	83.9370	85.8283	84.8157	3.7828e-01	1.9001e+00
55	TSO000001	56.7750	57.7485	57.3847	2.0931e-01	1.9001e+00
56	TSO000002	72.3714	73.1172	72.7679	1.9234e-01	1.9000e+00
57	TAF020136	96.5551	99.0708	97.8090	5.6820e-01	1.9005e+00
58	TAF120312	183.3420	184.9049	184.1663	3.2549e-01	1.9088e+00
59	TAF130312	197.8923	199.5329	198.5449	3.5015e-01	1.9111e+00
60	EMPTY	2.9346	2.9492	2.9417	4.9531e-03	0.0000e+00
61	EMPTY	2.9248	2.9395	2.9330	3.6165e-03	0.0000e+00
62	EMPTY	2.9150	2.9297	2.9234	2.7971e-03	0.0000e+00
63	EMPTY	2.9150	2.9248	2.9227	2.6396e-03	0.0000e+00
64	EMPTY	1.4502	1.4648	1.4594	2.3428e-03	0.0000e+00
65	EMPTY	1.4746	1.4795	1.4757	2.0432e-03	0.0000e+00
66	EMPTY	1.4844	1.4893	1.4876	2.3365e-03	0.0000e+00
67	EMPTY	1.4990	1.5039	1.5001	2.0432e-03	0.0000e+00
68	EMPTY	1.5088	1.5137	1.5091	1.1714e-03	0.0000e+00
69	EMPTY	1.5234	1.5234	1.5234	0.0000e+00	0.0000e+00
70	EMPTY	1.5283	1.5381	1.5332	9.8648e-04	0.0000e+00
71	EMPTY	1.5479	1.5527	1.5497	2.3941e-03	0.0000e+00
72	EMPTY	1.5527	1.5625	1.5584	2.0598e-03	0.0000e+00
73	EMPTY	1.5723	1.5771	1.5729	1.7115e-03	0.0000e+00
74	EMPTY	1.5820	1.5869	1.5854	2.2603e-03	0.0000e+00
75	EMPTY	1.5918	1.6016	1.5971	1.6624e-03	0.0000e+00
76	EMPTY	1.6064	1.6113	1.6066	9.6655e-04	0.0000e+00
77	EMPTY	1.6211	1.6260	1.6213	9.6655e-04	0.0000e+00
78	EMPTY	1.6357	1.6406	1.6402	1.3381e-03	0.0000e+00
79	EMPTY	1.6553	1.6602	1.6563	1.9730e-03	0.0000e+00
80	PAN020136	-9.9856	7.0280	-2.2601	4.3746e+00	8.7002e-01
81	PAN050136	-8.1966	16.3700	4.2759	6.8164e+00	1.6800e+00
82	PAN070136	-9.3193	17.6125	3.9177	6.1888e+00	8.7006e-01
83	PAN080136	-8.6152	15.0359	2.3574	5.6140e+00	8.7002e-01
84	PAN090136	-0.2053	20.3941	7.9002	5.0891e+00	8.7022e-01
85	PAN100136	-12.1908	9.0953	-2.8188	6.6654e+00	8.7003e-01
86	PAN105136	-7.7020	13.6603	1.1603	6.8278e+00	8.7000e-01
87	PAN110136	-7.0696	16.3527	6.4299	5.9046e+00	8.7015e-01
88	PAN115136	-7.4071	15.7863	4.2186	5.6239e+00	8.7006e-01
89	PAN120136	-6.7482	8.5868	-2.2835	4.8501e+00	8.7002e-01
90	PAN125136	-0.6917	35.8531	11.8617	1.0358e+01	8.7051e-01
91	PAN130136	3.3857	19.7889	8.5508	3.3066e+00	8.7026e-01
92	PAN120048	-3.1792	45.5726	17.7726	8.9403e+00	8.7113e-01
93	PAN130048	4.0672	30.9990	9.9343	4.9856e+00	8.7035e-01
94	PAN120224	3.2749	31.1985	15.8252	5.8727e+00	8.7090e-01
95	PAN130224	-11.9031	18.4619	3.5952	6.8391e+00	8.7005e-01
96	PAN120312	-8.9189	26.1763	10.3514	6.7634e+00	8.7038e-01
97	PAN130312	-9.2256	22.2075	7.7803	6.3156e+00	8.7022e-01
98	PAB000136	39.7703	40.5485	40.1502	1.9515e-01	5.8862e-01
99	PAB100136	39.0405	39.8645	39.3839	2.2545e-01	5.8830e-01
100	PAB125136	38.6233	39.2641	38.8439	1.2670e-01	5.8807e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2263	40.5690	39.8318	4.2067e-01	7.5658e-01
102	PRV000001	19.7186	19.8406	19.7552	5.6508e-02	7.5162e-01
103	PSR000001	37.1251	37.3693	37.2399	4.5541e-02	7.5576e-01
104	PFM000001	29.8391	30.6631	30.2603	2.0346e-01	5.0569e-01
105	PAN000136	29.3412	52.6872	40.5382	6.0829e+00	4.9210e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0063	2.2146e-03	0.0000e+00
108	EMPTY	-10.0000	-0.5664	-4.0729	2.1112e+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	177.2198	177.6104	177.4698	1.0470e-01	1.3379e+00
113	VPW000002	207.3280	207.7186	207.4804	9.8963e-02	1.4852e+00
114	VPW000003	256.2162	256.6068	256.3919	1.0625e-01	1.7386e+00
115	VPW000004	182.0125	182.5984	182.3563	1.2823e-01	1.3613e+00
116	VPW000005	242.5819	243.5584	243.0859	3.4420e-01	1.6683e+00
117	VPW000006	257.6360	258.0266	257.8936	1.0763e-01	1.7465e+00
118	IPW000001	943.7329	951.5423	948.4966	2.3719e+00	1.1034e+01
119	IPW000002	2235.0291	2244.7854	2238.3853	2.3335e+00	1.9450e+01
120	IPW000003	2252.2498	2261.9998	2256.2666	2.3771e+00	1.9579e+01
121	IPW000004	654.6067	657.0481	655.6421	7.3584e-01	5.5523e+00
122	IPW000005	434.2076	437.1370	435.5940	6.1092e-01	3.9802e+00
123	IPW000006	448.2798	450.7212	449.6662	5.6117e-01	4.0767e+00
124	EMPTY	-0.0293	-0.0146	-0.0206	3.7291e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.3778e-03	0.0000e+00
126	EMPTY	-0.0146	-0.0049	-0.0132	2.4662e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0179	3.2133e-03	0.0000e+00
128	IHT000001	219.5387	222.2731	221.2614	6.4680e-01	4.6589e+00
129	IHT000002	226.1268	228.8612	227.8769	6.2385e-01	4.6907e+00
130	IHT000003	228.0123	230.7467	229.8288	6.4144e-01	4.7002e+00
131	IHT000004	223.9596	226.6940	225.6510	5.7400e-01	4.6799e+00
132	IHT000005	221.4543	224.1887	223.1378	6.0088e-01	4.6679e+00
133	IHT000006	215.5987	218.3331	217.1182	5.8699e-01	4.6394e+00
134	IHT000007	224.9399	227.6743	226.5023	6.1384e-01	4.6841e+00
135	IHT000008	222.3483	225.0826	223.9420	6.0019e-01	4.6717e+00
136	IHT000009	222.7276	225.6573	224.3682	6.7428e-01	4.6738e+00
137	IHT000010	54.6236	57.1627	56.1119	5.0051e-01	4.1382e+00
138	IHT000011	223.8619	225.8150	225.0534	4.6228e-01	4.6771e+00
139	IHT000012	220.1097	222.0628	221.1136	4.9601e-01	4.6582e+00
140	IHT000013	159.3750	161.5234	160.3125	4.7515e-01	4.4023e+00
141	IHT000014	220.1397	222.0929	221.3233	5.4734e-01	4.6592e+00
142	IHT000015	164.1526	166.3011	165.3832	4.8368e-01	4.4210e+00
143	IHT000016	153.1701	154.9279	154.2481	4.5204e-01	4.3806e+00
144	IHT000017	183.9769	186.1253	185.0824	5.1541e-01	4.4984e+00
145	IHT000018	185.4793	187.6277	186.5028	5.3169e-01	4.5043e+00
146	IHT000019	179.4546	181.7984	180.4859	5.2799e-01	4.4797e+00
147	IHT000020	184.1271	186.4708	185.5255	4.9812e-01	4.5002e+00
148	IHT000021	-3.2039	-0.0789	-1.4109	6.5991e-01	4.1000e+00
149	IHT000022	158.6801	161.4145	160.1919	5.5916e-01	4.4018e+00
150	IHT000023	180.3411	182.8801	181.7784	5.3780e-01	4.4849e+00
151	IHT000024	145.1585	147.5023	146.1351	4.8967e-01	4.3526e+00
152	IHT000025	179.9392	182.0876	180.8610	4.5170e-01	4.4812e+00
153	IHT000026	181.8885	184.4276	183.1308	5.3490e-01	4.4904e+00
154	IHT000027	155.4237	157.7674	156.4628	5.0136e-01	4.3884e+00
155	IHT000028	156.9599	160.0849	158.4912	7.4070e-01	4.3957e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.4012	183.5262	181.9403	7.4727e-01	4.4856e+00
157	IHT000030	183.9656	187.0906	185.3251	7.4133e-01	4.4994e+00
158	IHT000031	181.2275	184.3525	182.5283	6.6335e-01	4.4879e+00
159	IHT000032	183.4998	187.0155	185.0585	7.4502e-01	4.4983e+00
160	IHT000033	183.7177	187.0380	185.0107	7.2640e-01	4.4981e+00
161	IHT000034	161.3206	164.0550	162.4535	5.4391e-01	4.4101e+00
162	IHT000035	212.9808	215.5199	214.2542	5.6115e-01	4.6261e+00
163	IHT000036	159.4013	161.7450	160.4951	5.2497e-01	4.4029e+00

Velocity 1 = 14.0103 (ft/sec) (+/- 1.8667 %)
Velocity 2 = 13.4129 (ft/sec) (+/- 1.7033 %)
Pressure drop = 1.4735 (psi)
Tsats in = 267.5527 (deg F) Tsats out = 265.5827 (deg F)
Phi inner = 300.2147 (kBtu/hr-ft2) (+/- 1.2351 %)
Phi outer = 300.6986 (kBtu/hr-ft2) (+/- 1.2631 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.4583	84.8816	84.6953	1.6908e-01	1.9001e+00
1	TRF000002	84.7891	85.2100	84.9280	1.3183e-01	1.9002e+00
2	TFM000001	85.0325	85.8734	85.3877	1.9565e-01	1.9002e+00
3	TIN000001	84.4696	84.9973	84.7503	1.1196e-01	1.9001e+00
4	TRV000001	86.1911	87.0301	86.5834	1.9974e-01	1.9002e+00
5	TSR000001	149.0969	150.8902	149.7488	3.8038e-01	1.9043e+00
6	TAO020136	141.1480	143.1656	141.9656	4.1678e-01	1.9035e+00
7	TAO050136	179.8052	181.7515	180.5711	5.1463e-01	1.9082e+00
8	TAO070136	173.4878	178.1236	175.0774	9.1861e-01	1.9074e+00
9	TAO080136	207.2372	208.6708	207.6225	2.6785e-01	1.9127e+00
10	TAO090136	213.4433	215.1617	214.3506	3.8768e-01	1.9140e+00
11	TAO100136	207.0980	208.4400	207.7253	3.0454e-01	1.9127e+00
12	TAO105136	212.3449	213.7829	212.9721	3.5236e-01	1.9137e+00
13	TAO110136	97.3165	97.9381	97.7115	1.6999e-01	1.9005e+00
14	TAO115136	215.6816	217.0188	216.4129	3.2049e-01	1.9144e+00
15	TAO120136	235.6064	236.9274	236.2539	2.7882e-01	1.9185e+00
16	TAO125136	215.6060	223.3046	219.6650	2.0799e+00	1.9150e+00
17	TAO130136	224.9015	225.9354	225.4751	2.2581e-01	1.9162e+00
18	TAO120048	112.9137	114.0457	113.6032	3.0982e-01	1.9013e+00
19	TAO130048	236.9092	238.0368	237.4037	2.6766e-01	1.9188e+00
20	TAO120224	232.3745	234.1688	233.1436	3.3041e-01	1.9178e+00
21	TAO130224	216.0308	217.3569	216.6815	2.9765e-01	1.9144e+00
22	TAO120312	230.5927	232.1067	231.4573	3.3776e-01	1.9175e+00
23	TAO130312	234.2830	235.5050	234.9651	2.5844e-01	1.9182e+00
24	TRT020000	176.0837	177.7558	177.0220	3.4825e-01	1.9077e+00
25	TRT070000	210.3435	211.3079	210.7697	2.1177e-01	1.9133e+00
26	TRT100000	236.2133	237.6231	236.8286	2.9241e-01	1.9187e+00
27	TRT120000	233.7795	234.6281	234.2070	1.7171e-01	1.9181e+00
28	TRT125000	100.2187	101.2548	100.7636	1.8100e-01	1.9006e+00
29	TRT130000	239.1186	240.0589	239.7295	2.0636e-01	1.9193e+00
30	EMPTY	39.3761	40.2940	39.8443	2.0715e-01	1.9011e+00
31	TAF050136	122.4009	124.7407	123.4820	5.1033e-01	1.9019e+00
32	TAF070136	138.4103	140.8178	139.5202	5.4004e-01	1.9033e+00
33	TAF080136	204.7402	207.6039	206.1437	6.2747e-01	1.9124e+00
34	TAF090136	97.7780	98.8190	98.1635	2.5598e-01	1.9005e+00
35	TAF100136	162.2906	164.6719	163.3369	5.9972e-01	1.9059e+00
36	TAF105136	166.1384	168.4910	167.4112	5.4742e-01	1.9064e+00
37	TAF110136	171.4096	174.0565	172.4270	4.7354e-01	1.9071e+00
38	TAF115136	175.8750	177.9299	176.8474	3.9977e-01	1.9077e+00
39	TAF120136	206.3788	210.8656	208.4709	1.2389e+00	1.9129e+00
40	TAF125136	184.1387	185.5887	184.9454	3.4964e-01	1.9089e+00
41	TAF130136	187.3981	188.6619	187.9099	3.4823e-01	1.9093e+00
42	TAF120048	187.8526	189.2226	188.3443	3.3936e-01	1.9094e+00
43	TAF130048	197.2226	198.4792	197.7546	2.4414e-01	1.9110e+00
44	TAF120224	176.8794	178.1520	177.5309	3.1144e-01	1.9078e+00
45	TAF130224	183.3944	184.8660	183.9343	3.4691e-01	1.9087e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0802	2.1166e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8168	1.2126e-01	1.9011e+00
48	TAI130048	229.4627	231.1655	230.2744	4.0375e-01	1.9172e+00
49	TAI130136	236.2589	237.2944	236.8558	2.5897e-01	1.9187e+00
50	TAI130224	240.0644	241.6664	240.9412	3.4698e-01	1.9196e+00
51	TAI130312	225.4154	226.7455	225.9992	2.8087e-01	1.9163e+00
52	TRR130000	129.3954	130.7127	130.1272	3.1377e-01	1.9024e+00
53	TSI000001	59.5261	60.2781	59.9023	1.7392e-01	1.9001e+00
54	TSI000002	84.6732	86.0387	85.3179	3.2318e-01	1.9002e+00
55	TSO000001	56.8827	57.8561	57.2958	2.2254e-01	1.9001e+00
56	TSO000002	72.2655	72.9046	72.6468	1.6388e-01	1.9000e+00
57	TAF020136	96.4492	99.0711	97.8361	5.2369e-01	1.9005e+00
58	TAF120312	183.2438	185.1977	184.3558	5.2461e-01	1.9088e+00
59	TAF130312	197.9900	199.6296	198.7399	3.8450e-01	1.9111e+00
60	EMPTY	2.9346	2.9541	2.9455	4.1338e-03	0.0000e+00
61	EMPTY	2.9297	2.9395	2.9355	2.7902e-03	0.0000e+00
62	EMPTY	2.9199	2.9297	2.9258	2.6100e-03	0.0000e+00
63	EMPTY	2.9199	2.9297	2.9248	2.6100e-03	0.0000e+00
64	EMPTY	1.4551	1.4648	1.4599	1.5566e-03	0.0000e+00
65	EMPTY	1.4746	1.4844	1.4763	2.5362e-03	0.0000e+00
66	EMPTY	1.4844	1.4893	1.4873	2.4164e-03	0.0000e+00
67	EMPTY	1.4990	1.5039	1.5007	2.3365e-03	0.0000e+00
68	EMPTY	1.5039	1.5137	1.5089	1.2041e-03	0.0000e+00
69	EMPTY	1.5186	1.5332	1.5232	1.9631e-03	0.0000e+00
70	EMPTY	1.5283	1.5332	1.5326	1.6028e-03	0.0000e+00
71	EMPTY	1.5479	1.5527	1.5503	2.4662e-03	0.0000e+00
72	EMPTY	1.5576	1.5625	1.5581	1.4797e-03	0.0000e+00
73	EMPTY	1.5723	1.5771	1.5731	1.8950e-03	0.0000e+00
74	EMPTY	1.5771	1.5869	1.5845	2.6562e-03	0.0000e+00
75	EMPTY	1.5918	1.6016	1.5966	1.5566e-03	0.0000e+00
76	EMPTY	1.6016	1.6113	1.6064	9.8648e-04	0.0000e+00
77	EMPTY	1.6211	1.6406	1.6216	2.8334e-03	0.0000e+00
78	EMPTY	1.6357	1.6406	1.6398	1.8082e-03	0.0000e+00
79	EMPTY	1.6553	1.6602	1.6559	1.6028e-03	0.0000e+00
80	PAN020136	-11.1300	10.8427	1.2311	5.4771e+00	8.7001e-01
81	PAN050136	-8.3492	17.4381	2.8904	6.6047e+00	1.6800e+00
82	PAN070136	-9.9297	15.7814	5.0118	5.9478e+00	8.7009e-01
83	PAN080136	-8.1575	12.6708	2.5496	5.0899e+00	8.7002e-01
84	PAN090136	-1.9601	21.2333	9.4718	5.3112e+00	8.7032e-01
85	PAN100136	-12.1908	9.4767	-2.8341	6.5185e+00	8.7003e-01
86	PAN105136	-7.7020	12.1344	0.3714	6.1832e+00	8.7000e-01
87	PAN110136	-3.7126	17.5734	7.3912	4.9072e+00	8.7020e-01
88	PAN115136	-7.5597	10.5220	2.9811	3.8153e+00	8.7003e-01
89	PAN120136	-7.0534	6.2217	-2.0409	4.2731e+00	8.7001e-01
90	PAN125136	-0.3103	25.0956	7.7021	6.1773e+00	8.7021e-01
91	PAN130136	1.5546	13.6091	8.3204	3.1737e+00	8.7025e-01
92	PAN120048	-2.0348	41.8342	14.1822	7.8293e+00	8.7072e-01
93	PAN130048	1.8547	31.7619	9.8427	5.2987e+00	8.7035e-01
94	PAN120224	1.7490	26.9260	14.7037	5.2615e+00	8.7078e-01
95	PAN130224	-13.9630	14.1131	4.1919	5.6151e+00	8.7006e-01
96	PAN120312	-6.8589	26.1000	11.6759	7.4403e+00	8.7049e-01
97	PAN130312	-3.4273	26.7089	8.4899	6.6004e+00	8.7026e-01
98	PAB000136	39.7703	40.5027	40.1237	2.0368e-01	5.8861e-01
99	PAB100136	38.7201	39.6356	39.2685	1.9300e-01	5.8825e-01
100	PAB125136	38.4859	39.3557	38.8174	1.6376e-01	5.8806e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.1042	40.5690	39.8952	4.3857e-01	7.5660e-01
102	PRV000001	19.7186	19.8406	19.8162	4.9324e-02	7.5163e-01
103	PSR000001	37.1251	37.2472	37.1813	6.1457e-02	7.5574e-01
104	PFM000001	29.6560	30.4800	30.0973	1.6408e-01	5.0563e-01
105	PAN000136	24.7636	54.9760	40.7945	6.7185e+00	4.9211e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0071	2.4583e-03	0.0000e+00
108	EMPTY	-9.1797	-0.9375	-4.6435	1.7796e+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	177.2198	177.6104	177.3995	1.2378e-01	1.3376e+00
113	VPW000002	207.3280	207.5233	207.3866	9.0412e-02	1.4847e+00
114	VPW000003	256.2162	256.6068	256.4349	1.1599e-01	1.7388e+00
115	VPW000004	182.2078	182.9890	182.4305	1.2484e-01	1.3617e+00
116	VPW000005	242.9725	243.9491	243.3671	2.4481e-01	1.6698e+00
117	VPW000006	257.6360	258.2219	257.9405	1.3760e-01	1.7468e+00
118	IPW000001	933.9712	939.8282	936.8995	1.4358e+00	1.0972e+01
119	IPW000002	2236.9805	2246.7368	2240.0627	1.6297e+00	1.9462e+01
120	IPW000003	2261.9998	2269.7998	2265.1587	1.8849e+00	1.9643e+01
121	IPW000004	651.1887	653.1418	651.9604	3.7029e-01	5.5252e+00
122	IPW000005	433.2311	436.6487	435.1840	7.8910e-01	3.9774e+00
123	IPW000006	449.7446	452.1860	450.8088	6.5947e-01	4.0845e+00
124	EMPTY	-0.0293	-0.0098	-0.0189	3.7745e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0126	3.1335e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0146	4.1256e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.1583e-03	0.0000e+00
128	IHT000001	219.7341	222.4684	221.2185	6.4958e-01	4.6587e+00
129	IHT000002	226.3221	229.0565	227.8730	6.7012e-01	4.6907e+00
130	IHT000003	228.4030	230.9420	229.8170	6.3327e-01	4.7002e+00
131	IHT000004	223.9596	226.8893	225.5924	6.8318e-01	4.6797e+00
132	IHT000005	221.8449	224.5793	223.1768	6.5991e-01	4.6681e+00
133	IHT000006	215.7940	218.3331	217.1455	6.3851e-01	4.6395e+00
134	IHT000007	225.3306	228.0649	226.5961	5.8426e-01	4.6845e+00
135	IHT000008	222.9342	225.4733	224.0436	6.1566e-01	4.6722e+00
136	IHT000009	223.1182	225.6573	224.3955	5.9216e-01	4.6739e+00
137	IHT000010	54.8190	57.3580	56.1119	5.8246e-01	4.1382e+00
138	IHT000011	224.0572	226.2057	225.1198	5.8681e-01	4.6774e+00
139	IHT000012	220.1097	222.2581	221.1839	6.1669e-01	4.6586e+00
140	IHT000013	159.5703	161.7188	160.4023	5.5916e-01	4.4026e+00
141	IHT000014	220.3351	223.0694	221.7256	6.2843e-01	4.6611e+00
142	IHT000015	164.3479	167.0823	165.5121	5.7583e-01	4.4215e+00
143	IHT000016	153.3654	155.7091	154.2833	5.1938e-01	4.3807e+00
144	IHT000017	183.1956	185.9300	184.6566	5.9483e-01	4.4966e+00
145	IHT000018	185.2840	187.8230	186.4482	5.5096e-01	4.5040e+00
146	IHT000019	178.8687	181.7984	180.3961	7.1211e-01	4.4793e+00
147	IHT000020	183.5412	186.8615	185.3575	7.3742e-01	4.4995e+00
148	IHT000021	-3.2039	0.1164	-1.5086	8.8712e-01	4.1000e+00
149	IHT000022	158.6801	161.6098	160.0083	6.9699e-01	4.4012e+00
150	IHT000023	180.5364	183.0754	181.6105	6.7572e-01	4.4842e+00
151	IHT000024	144.9632	147.3070	146.0726	6.5843e-01	4.3524e+00
152	IHT000025	179.7439	182.4782	180.7985	6.4838e-01	4.4809e+00
153	IHT000026	181.8885	184.8182	183.0761	6.4698e-01	4.4902e+00
154	IHT000027	155.2284	158.1581	156.4276	6.4599e-01	4.3883e+00
155	IHT000028	157.1552	160.0849	158.6591	6.3042e-01	4.3963e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.2058	183.5262	182.0887	6.8545e-01	4.4862e+00
157	IHT000030	183.3797	186.8953	185.4423	7.1153e-01	4.4999e+00
158	IHT000031	180.6415	184.3525	182.7158	6.9909e-01	4.4887e+00
159	IHT000032	183.1092	186.8201	185.1483	7.7138e-01	4.4987e+00
160	IHT000033	182.9365	186.8427	185.0928	7.7521e-01	4.4984e+00
161	IHT000034	161.3206	164.0550	162.6761	5.8048e-01	4.4109e+00
162	IHT000035	213.1761	216.1058	214.6409	6.5939e-01	4.6279e+00
163	IHT000036	159.2060	162.1357	160.7138	5.4682e-01	4.4037e+00

Velocity 1 = 0.037601 (ft/sec)
 Velocity 2 = 0.000000 (ft/sec)
 Pressure Drop = 0.009300 (psi)
 T_{sat} in = 0.039490 (deg F) T_{sat} out = 0.040588 (deg F)
 Phi inner = 1.159698 (kBtu/hr-ft²) Phi outer = 0.908905 (kBtu/hr-ft²)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0719	0.0850
1	TRF000002	0.0421	0.0496
2	TFM000001	0.0102	0.0119
3	TIN000001	0.0317	0.0374
4	TRV000001	0.0360	0.0416
5	TSR000001	0.2937	0.1957
6	TAO020136	1.2170	0.8647
7	TAO050136	0.0287	0.0159
8	TAO070136	0.2625	0.1502
9	TAO080136	0.0204	0.0098
10	TAO090136	0.1472	0.0687
11	TAO100136	0.0668	0.0321
12	TAO105136	0.0363	0.0170
13	TAO110136	0.7995	0.8250
14	TAO115136	0.1167	0.0540
15	TAO120136	0.1605	0.0680
16	TAO125136	0.2570	0.1171
17	TAO130136	0.0141	0.0063
18	TAO120048	1.2980	1.1558
19	TAO130048	0.2350	0.0991
20	TAO120224	0.0361	0.0155
21	TAO130224	0.0290	0.0134
22	TAO120312	0.2254	0.0975
23	TAO130312	0.1526	0.0650
24	TRT020000	0.3325	0.1882
25	TRT070000	0.2643	0.1256
26	TRT100000	0.2653	0.1121
27	TRT120000	0.2585	0.1105
28	TRT125000	1.1468	1.1512
29	TRT130000	0.2612	0.1091
30	EMPTY	0.0458	0.1151
31	TAF050136	0.0016	0.0013
32	TAF070136	0.0135	0.0097
33	TAF080136	0.0560	0.0272
34	TAF090136	0.3684	0.3767
35	TAF100136	0.2203	0.1351
36	TAF105136	0.3003	0.1797
37	TAF110136	0.1122	0.0651
38	TAF115136	0.1667	0.0944
39	TAF120136	0.0278	0.0133
40	TAF125136	0.2579	0.1396
41	TAF130136	0.2818	0.1502
42	TAF120048	0.0057	0.0030
43	TAF130048	0.1452	0.0735
44	TAF120224	0.0409	0.0230
45	TAF130224	0.0568	0.0309

#	Name	Abs Diff	%Diff
46	EMPTY	0.0184	0.0483
47	EMPTY	0.0459	0.1154
48	TAI130048	0.7097	0.3092
49	TAI130136	0.6639	0.2811
50	TAI130224	0.5146	0.2140
51	TAI130312	0.4124	0.1828
52	TRR130000	0.2047	0.1576
53	TSI000001	0.0490	0.0817
54	TSI000002	0.5022	0.5921
55	TSO000001	0.0889	0.1549
56	TSO000002	0.1211	0.1664
57	TAF020136	0.0271	0.0277
58	TAF120312	0.1895	0.1029
59	TAF130312	0.1950	0.0982
60	EMPTY	0.0038	0.1292
61	EMPTY	0.0025	0.0852
62	EMPTY	0.0024	0.0821
63	EMPTY	0.0021	0.0719
64	EMPTY	0.0005	0.0343
65	EMPTY	0.0006	0.0407
66	EMPTY	0.0003	0.0202
67	EMPTY	0.0006	0.0400
68	EMPTY	0.0002	0.0132
69	EMPTY	0.0002	0.0131
70	EMPTY	0.0006	0.0391
71	EMPTY	0.0006	0.0387
72	EMPTY	0.0003	0.0193
73	EMPTY	0.0002	0.0127
74	EMPTY	0.0009	0.0568
75	EMPTY	0.0005	0.0313
76	EMPTY	0.0002	0.0125
77	EMPTY	0.0003	0.0185
78	EMPTY	0.0004	0.0244
79	EMPTY	0.0004	0.0241
80	PAN020136	3.4912	154.4711
81	PAN050136	1.3855	32.4025
82	PAN070136	1.0941	27.9271
83	PAN080136	0.1922	8.1530
84	PAN090136	1.5716	19.8932
85	PAN100136	0.0153	0.5428
86	PAN105136	0.7889	67.9910
87	PAN110136	0.9613	14.9505
88	PAN115136	1.2375	29.3344
89	PAN120136	0.2426	10.6240
90	PAN125136	4.1596	35.0675
91	PAN130136	0.2304	2.6945
92	PAN120048	3.5904	20.2019
93	PAN130048	0.0916	0.9221
94	PAN120224	1.1215	7.0868
95	PAN130224	0.5967	16.5971
96	PAN120312	1.3245	12.7954
97	PAN130312	0.7096	9.1205
98	PAB000136	0.0265	0.0660
99	PAB100136	0.1154	0.2930
100	PAB125136	0.0265	0.0682

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0634	0.1592
102	PRV000001	0.0610	0.3088
103	PSR000001	0.0586	0.1574
104	PFM000001	0.1630	0.5387
105	PAN000136	0.2563	0.6322
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0008	12.6984
108	EMPTY	0.5706	14.0097
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0703	0.0396
113	VPW000002	0.0938	0.0452
114	VPW000003	0.0430	0.0168
115	VPW000004	0.0742	0.0407
116	VPW000005	0.2812	0.1157
117	VPW000006	0.0469	0.0182
118	IPW000001	11.5971	1.2227
119	IPW000002	1.6775	0.0749
120	IPW000003	8.8921	0.3941
121	IPW000004	3.6817	0.5615
122	IPW000005	0.4100	0.0941
123	IPW000006	1.1426	0.2541
124	EMPTY	0.0017	8.2524
125	EMPTY	0.0008	5.9701
126	EMPTY	0.0014	10.6061
127	EMPTY	0.0018	10.0559
128	IHT000001	0.0429	0.0194
129	IHT000002	0.0039	0.0017
130	IHT000003	0.0118	0.0051
131	IHT000004	0.0586	0.0260
132	IHT000005	0.0390	0.0175
133	IHT000006	0.0273	0.0126
134	IHT000007	0.0938	0.0414
135	IHT000008	0.1016	0.0454
136	IHT000009	0.0273	0.0122
137	IHT000010	0.0000	0.0000
138	IHT000011	0.0664	0.0295
139	IHT000012	0.0703	0.0318
140	IHT000013	0.0898	0.0560
141	IHT000014	0.4023	0.1818
142	IHT000015	0.1289	0.0779
143	IHT000016	0.0352	0.0228
144	IHT000017	0.4258	0.2301
145	IHT000018	0.0546	0.0293
146	IHT000019	0.0898	0.0498
147	IHT000020	0.1680	0.0906
148	IHT000021	0.0977	6.9247
149	IHT000022	0.1836	0.1146
150	IHT000023	0.1679	0.0924
151	IHT000024	0.0625	0.0428
152	IHT000025	0.0625	0.0346
153	IHT000026	0.0547	0.0299
154	IHT000027	0.0352	0.0225
155	IHT000028	0.1679	0.1059

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1484	0.0816
157	IHT000030	0.1172	0.0632
158	IHT000031	0.1875	0.1027
159	IHT000032	0.0898	0.0485
160	IHT000033	0.0821	0.0444
161	IHT000034	0.2226	0.1370
162	IHT000035	0.3867	0.1805
163	IHT000036	0.2187	0.1363

Velocity 1 = 11.9574 (ft/sec) (+/- 2.0251 %)
 Velocity 2 = 11.9504 (ft/sec) (+/- 1.7217 %)
 Pressure drop = -0.0890 (psi)
 Tsat in = 267.7850 (deg F) Tsat out = 267.9464 (deg F)
 Phi inner = 299.8207 (kBtu/hr-ft2) (+/- 1.2353 %)
 Phi outer = 299.6259 (kBtu/hr-ft2) (+/- 1.2636 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	84.4583	85.0931	84.8181	1.8262e-01	1.9001e+00
1	TRF0000002	84.7891	85.2100	85.0121	1.4981e-01	1.9002e+00
2	TFM0000001	85.6625	86.3983	86.0243	2.0925e-01	1.9002e+00
3	TIN0000001	84.9972	85.6299	85.3177	1.3800e-01	1.9002e+00
4	TRV0000001	86.7153	87.6575	87.2599	2.2407e-01	1.9002e+00
5	TSR0000001	150.0934	153.8730	151.9206	8.8675e-01	1.9045e+00
6	TAO020136	142.0563	144.0720	143.0484	5.1080e-01	1.9036e+00
7	TAO050136	193.1691	195.2853	193.8921	4.9142e-01	1.9103e+00
8	TAO070136	187.2522	191.6474	188.9413	8.6889e-01	1.9095e+00
9	TAO080136	224.0363	225.6416	224.9536	3.0359e-01	1.9161e+00
10	TAO090136	231.9423	233.0745	232.4221	2.8894e-01	1.9177e+00
11	TAO100136	226.7260	228.5230	227.6079	3.6758e-01	1.9167e+00
12	TAO105136	233.0088	234.7101	233.8484	3.9497e-01	1.9180e+00
13	TAO110136	99.6865	100.3100	100.0774	1.6578e-01	1.9006e+00
14	TAO115136	236.5618	238.2580	237.3685	4.1237e-01	1.9188e+00
15	TAO120136	258.5550	260.5062	259.7481	4.1077e-01	1.9241e+00
16	TAO125136	240.9354	254.4739	246.1662	3.0709e+00	1.9208e+00
17	TAO130136	248.4889	249.9659	249.3744	3.4009e-01	1.9216e+00
18	TAO120048	115.1741	116.2022	115.7212	2.8320e-01	1.9014e+00
19	TAO130048	262.4237	263.3480	262.9709	2.0019e-01	1.9249e+00
20	TAO120224	256.0878	257.8550	257.0743	3.7259e-01	1.9234e+00
21	TAO130224	239.5868	241.0739	240.2829	3.8299e-01	1.9194e+00
22	TAO120312	255.2990	257.2563	256.2356	3.5573e-01	1.9232e+00
23	TAO130312	259.7713	261.0695	260.4129	2.6009e-01	1.9243e+00
24	TRT020000	189.1116	190.6704	189.8599	3.8559e-01	1.9097e+00
25	TRT070000	228.6717	229.9117	229.4236	2.3399e-01	1.9170e+00
26	TRT100000	258.6120	259.8186	259.2691	2.6631e-01	1.9240e+00
27	TRT120000	256.6251	257.3705	257.0053	2.2391e-01	1.9234e+00
28	TRT125000	103.8292	104.7587	104.2838	2.0772e-01	1.9008e+00
29	TRT130000	263.1498	264.0759	263.6016	2.4284e-01	1.9251e+00
30	EMPTY	39.3761	40.0646	39.8168	2.1669e-01	1.9011e+00
31	TAF050136	129.6035	131.9298	131.0563	5.8683e-01	1.9025e+00
32	TAF070136	148.9025	151.3895	149.9936	5.3590e-01	1.9043e+00
33	TAF080136	226.8238	232.6517	229.5492	1.3789e+00	1.9171e+00
34	TAF090136	99.6493	100.5852	100.1483	2.5108e-01	1.9006e+00
35	TAF100136	176.6131	178.5774	177.5249	4.4235e-01	1.9078e+00
36	TAF105136	181.4435	183.1902	182.2547	4.1711e-01	1.9085e+00
37	TAF110136	187.4098	188.6713	188.0260	3.1782e-01	1.9094e+00
38	TAF115136	192.9057	194.0668	193.4869	3.3129e-01	1.9102e+00
39	TAF120136	236.2914	242.0954	239.6751	1.2639e+00	1.9193e+00
40	TAF125136	202.1218	203.8434	202.8536	3.5818e-01	1.9119e+00
41	TAF130136	205.7331	207.0777	206.3483	3.2673e-01	1.9125e+00
42	TAF120048	205.9589	207.5055	206.7630	3.5231e-01	1.9126e+00
43	TAF130048	217.5665	219.1866	218.4201	3.4862e-01	1.9148e+00
44	TAF120224	193.4333	194.8864	194.3089	3.0174e-01	1.9104e+00
45	TAF130224	201.0536	202.1200	201.5151	2.9207e-01	1.9116e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0802	1.7846e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8994	1.3146e-01	1.9011e+00
48	TAI130048	251.4548	253.1341	252.2565	4.5446e-01	1.9222e+00
49	TAI130136	255.6928	257.1809	256.3333	3.3834e-01	1.9232e+00
50	TAI130224	261.9769	263.3722	262.6912	3.2246e-01	1.9249e+00
51	TAI130312	246.9345	248.4346	247.6733	3.5260e-01	1.9211e+00
52	TRR130000	139.0763	140.6846	139.9125	3.6490e-01	1.9033e+00
53	TSI000001	59.7405	60.7066	60.1536	2.2053e-01	1.9001e+00
54	TSI000002	87.7152	89.2871	88.4785	3.1695e-01	1.9002e+00
55	TSO000001	56.8827	57.7479	57.3453	2.0503e-01	1.9001e+00
56	TSO000002	74.1787	75.3479	74.6340	2.2418e-01	1.9000e+00
57	TAF020136	100.2217	102.4173	101.3051	5.9034e-01	1.9007e+00
58	TAF120312	201.3049	203.6197	202.4825	5.2822e-01	1.9118e+00
59	TAF130312	219.6375	221.8236	220.6571	4.7241e-01	1.9152e+00
60	EMPTY	3.4863	3.5107	3.4973	4.9873e-03	0.0000e+00
61	EMPTY	3.4766	3.4912	3.4821	3.9471e-03	0.0000e+00
62	EMPTY	3.4619	3.4717	3.4678	2.9594e-03	0.0000e+00
63	EMPTY	3.4570	3.4668	3.4627	2.4878e-03	0.0000e+00
64	EMPTY	1.6943	1.6992	1.6957	2.2146e-03	0.0000e+00
65	EMPTY	1.7090	1.7139	1.7114	2.4662e-03	0.0000e+00
66	EMPTY	1.7188	1.7236	1.7207	2.4164e-03	0.0000e+00
67	EMPTY	1.7285	1.7383	1.7334	9.8648e-04	0.0000e+00
68	EMPTY	1.7383	1.7432	1.7401	2.3941e-03	0.0000e+00
69	EMPTY	1.7480	1.7578	1.7529	9.8648e-04	0.0000e+00
70	EMPTY	1.7578	1.7627	1.7609	2.3675e-03	0.0000e+00
71	EMPTY	1.7725	1.7773	1.7770	1.3381e-03	0.0000e+00
72	EMPTY	1.7725	1.7871	1.7829	2.4184e-03	0.0000e+00
73	EMPTY	1.7969	1.8018	1.7974	1.4797e-03	0.0000e+00
74	EMPTY	1.8018	1.8115	1.8065	1.2041e-03	0.0000e+00
75	EMPTY	1.8164	1.8213	1.8188	2.4642e-03	0.0000e+00
76	EMPTY	1.8262	1.8262	1.8262	0.0000e+00	0.0000e+00
77	EMPTY	1.8359	1.8408	1.8406	9.6655e-04	0.0000e+00
78	EMPTY	1.8555	1.8604	1.8557	9.6655e-04	0.0000e+00
79	EMPTY	1.8701	1.8750	1.8741	1.8950e-03	0.0000e+00
80	PAN020136	-14.6395	5.2732	-4.1110	4.3260e+00	8.7006e-01
81	PAN050136	-18.1149	3.4000	-9.7317	5.7782e+00	1.6802e+00
82	PAN070136	-16.5672	5.1003	-4.9248	5.3768e+00	8.7009e-01
83	PAN080136	-12.5825	8.8561	-2.2157	4.2863e+00	8.7002e-01
84	PAN090136	-5.8511	10.6284	1.8836	4.5414e+00	8.7001e-01
85	PAN100136	-12.1145	8.3323	-0.4796	4.9942e+00	8.7000e-01
86	PAN105136	-7.7020	14.2707	-0.8874	5.7485e+00	8.7000e-01
87	PAN110136	-7.2222	26.1946	6.2514	8.4519e+00	8.7014e-01
88	PAN115136	-6.9493	22.6527	3.8646	5.5378e+00	8.7005e-01
89	PAN120136	-6.7482	6.4506	0.1457	3.7424e+00	8.7000e-01
90	PAN125136	-4.5064	18.8395	6.7439	4.8718e+00	8.7016e-01
91	PAN130136	-1.3445	11.0151	4.4721	3.0043e+00	8.7007e-01
92	PAN120048	0.6355	29.0168	8.1382	4.5325e+00	8.7024e-01
93	PAN130048	-0.9682	9.0264	3.9986	2.4416e+00	8.7006e-01
94	PAN120224	1.8253	22.8824	9.8453	4.7441e+00	8.7035e-01
95	PAN130224	-1.4508	7.7807	3.3954	2.2318e+00	8.7004e-01
96	PAN120312	1.0756	33.9583	8.4517	5.6473e+00	8.7026e-01
97	PAN130312	0.9215	8.3983	4.2021	1.7953e+00	8.7006e-01
98	PAB000136	39.9076	40.6858	40.2802	1.7474e-01	5.8868e-01
99	PAB100136	40.5054	41.4667	40.8130	2.0514e-01	5.8891e-01
100	PAB125136	40.2254	40.6832	40.3893	1.0629e-01	5.8872e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.4704	40.9353	40.1589	4.0506e-01	7.5669e-01
102	PRV0000001	19.7186	19.9627	19.8455	3.4527e-02	7.5164e-01
103	PSR0000001	39.3224	39.4445	39.3932	6.0861e-02	7.5644e-01
104	PFM0000001	21.5078	22.2402	21.8704	1.8024e-01	5.0298e-01
105	PAN000136	-14.6041	12.4040	-2.4642	6.3424e+00	4.9200e+00
106	PFM0000002	21.6792	22.1154	21.8446	1.0283e-01	2.0732e-01
107	EMPTY	0.0049	0.0098	0.0052	1.1714e-03	0.0000e+00
108	EMPTY	-10.0000	-1.3867	-4.7613	1.6086e+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	0.0003	1.1714e-03	0.0000e+00
112	VPW0000001	177.2198	177.6104	177.4698	1.1864e-01	1.4379e+00
113	VPW0000002	207.3280	207.7186	207.5351	9.9902e-02	1.8855e+00
114	VPW0000003	256.4115	256.9974	256.6810	1.1765e-01	1.7401e+00
115	VPW0000004	182.4031	182.9890	182.5204	1.3087e-01	1.3621e+00
116	VPW0000005	242.9725	243.7538	243.3163	2.0336e-01	1.6696e+00
117	VPW0000006	257.8313	258.4172	258.2257	1.3375e-01	1.7483e+00
118	IPW0000001	932.0189	945.6852	939.5156	3.8517e+00	1.0986e+01
119	IPW0000002	2219.4189	2225.2727	2222.2283	1.2565e+00	1.9334e+01
120	IPW0000003	2260.0498	2265.8999	2260.9854	1.1975e+00	1.9613e+01
121	IPW0000004	648.7473	654.1184	650.5249	1.8840e+00	5.5146e+00
122	IPW0000005	434.2076	436.6487	435.2327	4.8574e-01	3.9777e+00
123	IPW0000006	447.7915	449.7446	448.7580	4.0059e-01	4.0704e+00
124	EMPTY	-0.0244	-0.0146	-0.0182	3.1257e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0122	3.0003e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0141	3.9013e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.2434e-03	0.0000e+00
128	IHT0000001	219.9294	222.6637	221.2731	6.0828e-01	4.6590e+00
129	IHT0000002	226.5174	229.2518	227.8573	5.8661e-01	4.6906e+00
130	IHT0000003	228.5983	230.9420	229.8717	5.8957e-01	4.7004e+00
131	IHT0000004	224.1549	226.6940	225.6393	6.3626e-01	4.6799e+00
132	IHT0000005	221.8449	224.1887	223.2433	5.8708e-01	4.6684e+00
133	IHT0000006	215.7940	218.3331	217.2471	6.4737e-01	4.6400e+00
134	IHT0000007	225.1352	227.8696	226.6820	6.2991e-01	4.6849e+00
135	IHT0000008	222.9342	225.2779	224.0905	5.6612e-01	4.6724e+00
136	IHT0000009	222.9229	225.8526	224.3135	6.3336e-01	4.6735e+00
137	IHT0000010	55.0143	56.9674	55.8892	4.8687e-01	4.1379e+00
138	IHT0000011	223.8619	225.6197	224.7604	5.0532e-01	4.6757e+00
139	IHT0000012	219.7191	221.8675	220.7815	5.6656e-01	4.6567e+00
140	IHT0000013	158.9844	161.1328	159.9141	5.4328e-01	4.4008e+00
141	IHT0000014	219.9444	222.0929	221.0694	5.0464e-01	4.6580e+00
142	IHT0000015	163.7620	166.1058	165.0433	5.1473e-01	4.4197e+00
143	IHT0000016	152.5341	154.7326	153.6192	4.9166e-01	4.3783e+00
144	IHT0000017	183.0003	186.7112	184.3011	7.6678e-01	4.4952e+00
145	IHT0000018	184.8933	187.6277	186.0262	6.8912e-01	4.5023e+00
146	IHT0000019	179.2593	182.1890	180.2750	5.7318e-01	4.4788e+00
147	IHT0000020	183.9318	187.2521	185.2364	5.8586e-01	4.4990e+00
148	IHT0000021	-3.0086	0.3118	-1.6257	6.8554e-01	4.1000e+00
149	IHT0000022	158.6801	161.2192	159.5747	5.2510e-01	4.3996e+00
150	IHT0000023	180.3411	182.6848	181.3566	5.3087e-01	4.4832e+00
151	IHT0000024	144.7679	146.9163	145.8578	4.8342e-01	4.3517e+00
152	IHT0000025	179.3532	182.0876	180.6305	5.4277e-01	4.4803e+00
153	IHT0000026	181.4979	184.4276	182.8339	6.1809e-01	4.4892e+00
154	IHT0000027	154.8377	157.3768	156.0995	5.4421e-01	4.3871e+00
155	IHT0000028	156.7646	159.8896	158.6318	6.8591e-01	4.3962e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.4012	183.5262	182.1005	6.5227e-01	4.4862e+00
157	IHT000030	183.7703	187.2859	185.4423	6.5455e-01	4.4999e+00
158	IHT000031	181.2275	184.7431	182.7353	6.5440e-01	4.4888e+00
159	IHT000032	183.4998	187.2108	185.1835	7.0132e-01	4.4988e+00
160	IHT000033	183.5224	187.2333	185.1396	6.8007e-01	4.4986e+00
161	IHT000034	161.7112	163.8597	162.6957	5.2491e-01	4.4110e+00
162	IHT000035	213.3714	215.3245	214.3948	5.0925e-01	4.6267e+00
163	IHT000036	159.7919	161.5497	160.6865	4.4309e-01	4.4036e+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 = 11.8976 (ft/sec) (+/- 2.0317 %)
 Velocity 2 = 11.8959 (ft/sec) (+/- 1.7226 %)
 Pressure drop = -0.0764 (psi)
 Tsat in = 268.0624 (deg F) Tsat out = 268.2096 (deg F)
 Phi inner = 300.0932 (kBtu/hr-ft2) (+/- 1.2351 %)
 Phi outer = 299.9152 (kBtu/hr-ft2) (+/- 1.2635 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.4583	85.3047	84.8688	1.9780e-01	1.9001e+00
1	TRF000002	84.7891	85.2100	85.0374	1.5148e-01	1.9002e+00
2	TFM000001	85.5577	86.3988	86.0161	2.1108e-01	1.9002e+00
3	TIN000001	85.1019	85.7349	85.4020	1.6002e-01	1.9002e+00
4	TRV000001	86.8194	87.6590	87.2895	2.0436e-01	1.9002e+00
5	TSR000001	154.0716	160.1133	157.8925	1.8000e+00	1.9052e+00
6	TAO020136	153.2047	156.1021	154.6642	5.7947e-01	1.9048e+00
7	TAO050136	193.4570	195.5769	194.2661	4.9806e-01	1.9104e+00
8	TAO070136	187.8384	192.0382	189.2265	9.4262e-01	1.9096e+00
9	TAO080136	224.6007	225.9251	225.3350	2.9431e-01	1.9162e+00
10	TAO090136	232.2254	233.6414	232.8332	3.4158e-01	1.9178e+00
11	TAO100136	226.8199	228.5244	227.7708	3.5976e-01	1.9167e+00
12	TAO105136	233.1975	234.5219	233.8371	3.7762e-01	1.9180e+00
13	TAO110136	96.5948	97.3216	96.9062	1.7443e-01	1.9005e+00
14	TAO115136	236.6552	239.2001	237.4968	4.7279e-01	1.9188e+00
15	TAO120136	259.2985	260.6935	260.0904	3.2162e-01	1.9242e+00
16	TAO125136	241.3093	254.4729	246.3164	2.8329e+00	1.9208e+00
17	TAO130136	248.8609	250.1467	249.6404	3.1018e-01	1.9216e+00
18	TAO120048	114.4566	115.8946	115.1959	3.3410e-01	1.9014e+00
19	TAO130048	262.7924	263.9948	263.2963	2.2217e-01	1.9250e+00
20	TAO120224	256.3669	257.7631	257.1117	3.3473e-01	1.9234e+00
21	TAO130224	240.0510	241.8230	240.7935	4.2192e-01	1.9196e+00
22	TAO120312	256.0452	257.3504	256.6047	3.2123e-01	1.9233e+00
23	TAO130312	260.3266	261.4398	260.7686	2.3826e-01	1.9244e+00
24	TRT020000	189.1111	190.7681	190.0158	3.7619e-01	1.9097e+00
25	TRT070000	228.9590	230.4828	229.6371	2.8783e-01	1.9171e+00
26	TRT100000	259.0753	260.0968	259.4843	2.6750e-01	1.9240e+00
27	TRT120000	256.7184	257.7423	257.2732	2.3266e-01	1.9235e+00
28	TRT125000	97.6350	98.6738	98.2005	2.2515e-01	1.9005e+00
29	TRT130000	263.6118	264.9083	264.1859	3.2271e-01	1.9252e+00
30	EMPTY	39.3761	40.2940	39.7893	2.3183e-01	1.9011e+00
31	TAF050136	130.4119	132.3322	131.2142	5.4883e-01	1.9025e+00
32	TAF070136	148.9030	151.3912	150.2007	5.9729e-01	1.9043e+00
33	TAF080136	226.8259	234.4313	229.8651	1.5246e+00	1.9171e+00
34	TAF090136	96.5301	97.5722	96.9969	2.4662e-01	1.9005e+00
35	TAF100136	177.1045	178.6759	177.8196	3.9083e-01	1.9078e+00
36	TAF105136	181.6374	183.2857	182.4877	3.5013e-01	1.9085e+00
37	TAF110136	187.6026	189.2528	188.4025	3.4542e-01	1.9094e+00
38	TAF115136	192.9057	194.3575	193.6418	3.0107e-01	1.9103e+00
39	TAF120136	237.3229	241.9086	239.7391	1.2235e+00	1.9193e+00
40	TAF125136	202.1218	203.8457	203.0527	3.6113e-01	1.9119e+00
41	TAF130136	206.1182	206.9822	206.5556	2.4973e-01	1.9125e+00
42	TAF120048	206.4422	207.6022	207.0762	3.2395e-01	1.9126e+00
43	TAF130048	218.3281	219.4716	218.8012	2.6111e-01	1.9149e+00
44	TAF120224	194.0150	195.4662	194.5955	3.4040e-01	1.9104e+00
45	TAF130224	201.4410	202.5071	201.8137	2.3839e-01	1.9117e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	2.3341e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8444	1.2232e-01	1.9011e+00
48	TAI130048	252.4800	254.5324	253.5326	4.9993e-01	1.9226e+00
49	TAI130136	256.3436	257.8307	257.2209	2.8659e-01	1.9235e+00
50	TAI130224	262.8142	264.4873	263.6617	3.5563e-01	1.9251e+00
51	TAI130312	247.6843	250.4939	248.9210	7.7928e-01	1.9214e+00
52	TRR130000	135.6568	137.0675	136.4426	3.3655e-01	1.9030e+00
53	TSI000001	59.9554	60.7076	60.3210	1.6389e-01	1.9001e+00
54	TSI000002	85.5137	87.2981	86.3281	3.6028e-01	1.9002e+00
55	TSO000001	56.8826	57.7474	57.3020	2.2023e-01	1.9001e+00
56	TSO000002	74.0730	74.9234	74.5704	2.0867e-01	1.9000e+00
57	TAF020136	100.4301	103.1473	101.2590	6.3086e-01	1.9007e+00
58	TAF120312	201.4988	203.5233	202.5790	4.3216e-01	1.9118e+00
59	TAF130312	220.0179	222.2995	220.9766	4.7970e-01	1.9153e+00
60	EMPTY	3.4961	3.5107	3.5039	4.4117e-03	0.0000e+00
61	EMPTY	3.4814	3.4912	3.4890	2.6488e-03	0.0000e+00
62	EMPTY	3.4717	3.4766	3.4742	2.4642e-03	0.0000e+00
63	EMPTY	3.4668	3.4717	3.4694	2.4583e-03	0.0000e+00
64	EMPTY	1.6992	1.7090	1.6994	1.3811e-03	0.0000e+00
65	EMPTY	1.7139	1.7188	1.7144	1.4797e-03	0.0000e+00
66	EMPTY	1.7236	1.7285	1.7238	9.6655e-04	0.0000e+00
67	EMPTY	1.7383	1.7432	1.7384	6.9053e-04	0.0000e+00
68	EMPTY	1.7432	1.7480	1.7437	1.4797e-03	0.0000e+00
69	EMPTY	1.7529	1.7627	1.7571	1.9754e-03	0.0000e+00
70	EMPTY	1.7578	1.7676	1.7635	2.0598e-03	0.0000e+00
71	EMPTY	1.7773	1.7822	1.7817	1.4797e-03	0.0000e+00
72	EMPTY	1.7871	1.7920	1.7874	1.1714e-03	0.0000e+00
73	EMPTY	1.8018	1.8066	1.8019	6.9053e-04	0.0000e+00
74	EMPTY	1.8066	1.8164	1.8115	9.8648e-04	0.0000e+00
75	EMPTY	1.8213	1.8359	1.8228	2.8334e-03	0.0000e+00
76	EMPTY	1.8311	1.8311	1.8311	0.0000e+00	0.0000e+00
77	EMPTY	1.8408	1.8457	1.8448	1.8950e-03	0.0000e+00
78	EMPTY	1.8604	1.8652	1.8604	6.9053e-04	0.0000e+00
79	EMPTY	1.8750	1.8848	1.8787	2.3261e-03	0.0000e+00
80	PAN020136	-17.3098	5.5021	-6.6958	5.1628e+00	8.7016e-01
81	PAN050136	-19.3356	7.2147	-7.5222	5.9513e+00	1.6801e+00
82	PAN070136	-20.2293	5.8632	-4.5036	5.8099e+00	8.7007e-01
83	PAN080136	-13.2691	5.1940	-4.7044	4.6198e+00	8.7008e-01
84	PAN090136	-9.1317	13.0698	1.1298	4.6317e+00	8.7000e-01
85	PAN100136	-12.1908	12.3759	-0.0631	6.2281e+00	8.7000e-01
86	PAN105136	-7.7020	18.7720	-0.9713	6.8043e+00	8.7000e-01
87	PAN110136	-7.2222	21.3881	4.7331	6.1505e+00	8.7008e-01
88	PAN115136	-4.9657	25.0942	4.8747	6.2385e+00	8.7009e-01
89	PAN120136	-2.3995	6.9847	2.5795	2.4712e+00	8.7002e-01
90	PAN125136	-1.0732	9.9894	4.8564	1.8600e+00	8.7008e-01
91	PAN130136	-1.4971	7.9633	3.4025	2.5481e+00	8.7004e-01
92	PAN120048	5.5946	21.7689	9.3116	2.5068e+00	8.7031e-01
93	PAN130048	0.3288	7.9582	2.9396	1.6646e+00	8.7003e-01
94	PAN120224	1.5964	26.3919	8.5758	4.7972e+00	8.7026e-01
95	PAN130224	-0.9931	8.7725	4.0789	2.2254e+00	8.7006e-01
96	PAN120312	2.9830	30.6777	9.9913	5.3100e+00	8.7036e-01
97	PAN130312	-0.2992	9.0849	3.5597	1.9254e+00	8.7005e-01
98	PAB000136	40.0908	40.9147	40.4679	1.8207e-01	5.8876e-01
99	PAB100136	40.7343	41.9702	41.0281	2.4592e-01	5.8900e-01
100	PAB125136	40.3170	40.8205	40.5679	1.0834e-01	5.8880e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.5925	40.9353	40.3811	3.7092e-01	7.5676e-01
102	PRV0000001	19.4744	19.4744	19.4744	1.9267e-06	7.5158e-01
103	PSR0000001	39.4445	39.6886	39.5934	6.1852e-02	7.5650e-01
104	PFM0000001	21.4163	21.9656	21.6506	1.3230e-01	5.0292e-01
105	PAN0000136	-14.1463	16.0661	-2.1163	6.3349e+00	4.9200e+00
106	PFM0000002	21.4442	21.7966	21.6446	8.9204e-02	2.0719e-01
107	EMPTY	0.0049	0.0098	0.0053	1.3381e-03	0.0000e+00
108	EMPTY	-10.0000	-1.5918	-7.2425	2.5567e+00	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0048	1.2041e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0098	0.0002	1.3811e-03	0.0000e+00
112	VPW0000001	177.2198	177.8057	177.5245	1.1272e-01	1.3381e+00
113	VPW0000002	207.3280	207.7186	207.5507	9.6735e-02	1.4856e+00
114	VPW0000003	256.4115	256.8021	256.6302	1.2871e-01	1.7398e+00
115	VPW0000004	182.4031	182.7937	182.5165	1.0507e-01	1.3621e+00
116	VPW0000005	242.7772	243.9491	243.4335	2.8113e-01	1.6702e+00
117	VPW0000006	257.8313	258.4172	258.1593	1.4994e-01	1.7480e+00
118	IPW0000001	937.8759	941.7806	939.6329	1.4890e+00	1.0987e+01
119	IPW0000002	2225.2727	2231.1265	2228.0051	1.4750e+00	1.9376e+01
120	IPW0000003	2260.0498	2263.9500	2261.8823	1.2711e+00	1.9619e+01
121	IPW0000004	647.7708	648.7473	648.1616	3.1195e-01	5.4972e+00
122	IPW0000005	433.7194	435.6723	434.8226	6.2236e-01	3.9749e+00
123	IPW0000006	450.2329	451.6978	450.8771	3.4793e-01	4.0850e+00
124	EMPTY	-0.0244	-0.0098	-0.0194	4.0059e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0123	3.3073e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0147	3.3439e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0157	3.0067e-03	0.0000e+00
128	IHT0000001	219.9294	222.0778	221.2224	5.4375e-01	4.6587e+00
129	IHT0000002	226.3221	228.8612	227.7909	6.2545e-01	4.6903e+00
130	IHT0000003	228.2076	230.9420	229.8092	6.0361e-01	4.7001e+00
131	IHT0000004	223.9596	226.6940	225.5143	6.1884e-01	4.6793e+00
132	IHT0000005	221.8449	224.3840	223.1729	6.3748e-01	4.6680e+00
133	IHT0000006	216.1846	218.3331	217.1143	5.8999e-01	4.6394e+00
134	IHT0000007	225.5259	227.8696	226.6000	5.9222e-01	4.6845e+00
135	IHT0000008	223.1295	225.2779	224.0397	5.6992e-01	4.6722e+00
136	IHT0000009	223.1182	225.4620	224.2979	5.7987e-01	4.6734e+00
137	IHT0000010	54.4283	57.1627	55.7447	6.6005e-01	4.1377e+00
138	IHT0000011	223.2760	226.2057	224.6588	6.8099e-01	4.6752e+00
139	IHT0000012	219.7191	222.2581	220.7112	6.4457e-01	4.6563e+00
140	IHT0000013	158.7891	161.7188	159.9648	6.5017e-01	4.4010e+00
141	IHT0000014	220.1397	222.8741	221.2334	6.4113e-01	4.6588e+00
142	IHT0000015	163.7620	166.4964	165.0511	6.6145e-01	4.4197e+00
143	IHT0000016	152.3888	155.1232	153.7013	6.5082e-01	4.3786e+00
144	IHT0000017	182.4144	185.3441	184.1956	7.2613e-01	4.4948e+00
145	IHT0000018	184.6980	187.6277	185.9598	6.6989e-01	4.5020e+00
146	IHT0000019	178.4781	181.7984	180.3375	6.5583e-01	4.4791e+00
147	IHT0000020	183.5412	186.4708	185.2755	6.3459e-01	4.4992e+00
148	IHT0000021	-3.2039	0.3118	-1.5164	7.9386e-01	4.1000e+00
149	IHT0000022	158.2895	161.0239	159.7388	6.0501e-01	4.4002e+00
150	IHT0000023	180.3411	182.6848	181.4503	6.3924e-01	4.4836e+00
151	IHT0000024	144.7679	147.1116	145.8851	6.0752e-01	4.3518e+00
152	IHT0000025	179.3532	181.8923	180.6344	6.5929e-01	4.4803e+00
153	IHT0000026	181.3026	184.2323	182.9003	6.7852e-01	4.4895e+00
154	IHT0000027	154.8377	157.5721	156.3026	6.9727e-01	4.3878e+00
155	IHT0000028	157.1552	159.8896	158.6006	6.4113e-01	4.3961e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.5965	183.5262	182.1161	6.8264e-01	4.4863e+00
157	IHT000030	183.9656	186.7000	185.4696	7.3319e-01	4.5000e+00
158	IHT000031	181.2275	183.7665	182.7509	7.0255e-01	4.4889e+00
159	IHT000032	183.4998	186.4295	185.1249	6.8053e-01	4.4986e+00
160	IHT000033	183.3271	186.2568	185.0928	6.8112e-01	4.4984e+00
161	IHT000034	161.3206	163.6644	162.6136	5.0361e-01	4.4107e+00
162	IHT000035	212.7855	215.7152	214.5237	6.6175e-01	4.6273e+00
163	IHT000036	159.5966	161.7450	160.7138	4.9918e-01	4.4037e+00

Velocity 1 = 0.059800 (ft/sec)
 Velocity 2 = 0.054501 (ft/sec)
 Pressure Drop = 0.012600 (psi)
 Tsat in = 0.277405 (deg F) Tsat out = 0.263184 (deg F)
 Phi inner = 0.272491 (kBtu/hr-ft2) Phi outer = 0.289307 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0507	0.0598
1	TRF000002	0.0253	0.0298
2	TFM000001	0.0082	0.0095
3	TIN000001	0.0843	0.0988
4	TRV000001	0.0296	0.0339
5	TSR000001	5.9719	3.9309
6	TAO020136	11.6158	8.1202
7	TAO050136	0.3740	0.1929
8	TAO070136	0.2852	0.1509
9	TAO080136	0.3814	0.1695
10	TAO090136	0.4111	0.1769
11	TAO100136	0.1629	0.0716
12	TAO105136	0.0113	0.0048
13	TAO110136	3.1712	3.1688
14	TAO115136	0.1283	0.0540
15	TAO120136	0.3423	0.1318
16	TAO125136	0.1502	0.0610
17	TAO130136	0.2660	0.1067
18	TAO120048	0.5253	0.4539
19	TAO130048	0.3254	0.1237
20	TAO120224	0.0374	0.0145
21	TAO130224	0.5106	0.2125
22	TAO120312	0.3691	0.1441
23	TAO130312	0.3557	0.1366
24	TRT020000	0.1559	0.0821
25	TRT070000	0.2135	0.0931
26	TRT100000	0.2152	0.0830
27	TRT120000	0.2679	0.1042
28	TRT125000	6.0835	5.8336
29	TRT130000	0.5843	0.2217
30	EMPTY	0.0275	0.0691
31	TAF050136	0.1579	0.1205
32	TAF070136	0.2071	0.1381
33	TAF080136	0.3159	0.1376
34	TAF090136	3.1514	3.1467
35	TAF100136	0.2947	0.1660
36	TAF105136	0.2330	0.1278
37	TAF110136	0.3765	0.2002
38	TAF115136	0.1549	0.0801
39	TAF120136	0.0640	0.0267
40	TAF125136	0.1991	0.0981
41	TAF130136	0.2073	0.1005
42	TAF120048	0.3132	0.1515
43	TAF130048	0.3811	0.1745
44	TAF120224	0.2866	0.1475
45	TAF130224	0.2986	0.1482

#	Name	Abs Diff	%Diff
46	EMPTY	0.0322	0.0846
47	EMPTY	0.0550	0.1378
48	TAI130048	1.2761	0.5059
49	TAI130136	0.8876	0.3463
50	TAI130224	0.9705	0.3695
51	TAI130312	1.2477	0.5038
52	TRR130000	3.4699	2.4801
53	TSI000001	0.1674	0.2783
54	TSI000002	2.1504	2.4304
55	TSO000001	0.0433	0.0755
56	TSO000002	0.0636	0.0852
57	TAF020136	0.0461	0.0455
58	TAF120312	0.0965	0.0477
59	TAF130312	0.3195	0.1448
60	EMPTY	0.0066	0.1887
61	EMPTY	0.0069	0.1982
62	EMPTY	0.0064	0.1846
63	EMPTY	0.0067	0.1935
64	EMPTY	0.0037	0.2182
65	EMPTY	0.0030	0.1753
66	EMPTY	0.0031	0.1802
67	EMPTY	0.0050	0.2885
68	EMPTY	0.0036	0.2069
69	EMPTY	0.0042	0.2396
70	EMPTY	0.0026	0.1476
71	EMPTY	0.0047	0.2645
72	EMPTY	0.0045	0.2524
73	EMPTY	0.0045	0.2504
74	EMPTY	0.0050	0.2768
75	EMPTY	0.0040	0.2199
76	EMPTY	0.0049	0.2683
77	EMPTY	0.0042	0.2282
78	EMPTY	0.0047	0.2533
79	EMPTY	0.0046	0.2455
80	PAN020136	2.5848	62.8752
81	PAN050136	2.2095	22.7042
82	PAN070136	0.4212	8.5526
83	PAN080136	2.4887	112.3212
84	PAN090136	0.7538	40.0191
85	PAN100136	0.4165	86.8432
86	PAN105136	0.0839	9.4546
87	PAN110136	1.5183	24.2874
88	PAN115136	1.0101	26.1373
89	PAN120136	2.4338	1670.4187
90	PAN125136	1.8875	27.9883
91	PAN130136	1.0696	23.9172
92	PAN120048	1.1734	14.4184
93	PAN130048	1.0590	26.4843
94	PAN120224	1.2695	12.8945
95	PAN130224	0.6835	20.1302
96	PAN120312	1.5396	18.2164
97	PAN130312	0.6424	15.2876
98	PAB000136	0.1877	0.4660
99	PAB100136	0.2151	0.5270
100	PAB125136	0.1786	0.4422

#	Name	Abs Diff	%Diff
101	PIN000001	0.2222	0.5533
102	PRV000001	0.3711	1.8700
103	PSR000001	0.2002	0.5082
104	PFM000001	0.2198	1.0050
105	PAN000136	0.3479	14.1182
106	PFM000002	0.2000	0.9156
107	EMPTY	0.0001	1.9231
108	EMPTY	2.4812	52.1118
109	EMPTY	0.0001	2.0408
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	33.3333
112	VPW000001	0.0547	0.0308
113	VPW000002	0.0156	0.0075
114	VPW000003	0.0508	0.0198
115	VPW000004	0.0039	0.0021
116	VPW000005	0.1172	0.0482
117	VPW000006	0.0664	0.0257
118	IPW000001	0.1172	0.0125
119	IPW000002	5.7769	0.2600
120	IPW000003	0.8970	0.0397
121	IPW000004	2.3633	0.3633
122	IPW000005	0.4101	0.0942
123	IPW000006	2.1191	0.4722
124	EMPTY	0.0012	6.5934
125	EMPTY	0.0001	0.8197
126	EMPTY	0.0006	4.2553
127	EMPTY	0.0002	1.2579
128	IHT000001	0.0507	0.0229
129	IHT000002	0.0664	0.0291
130	IHT000003	0.0625	0.0272
131	IHT000004	0.1250	0.0554
132	IHT000005	0.0704	0.0315
133	IHT000006	0.1328	0.0611
134	IHT000007	0.0820	0.0362
135	IHT000008	0.0508	0.0227
136	IHT000009	0.0156	0.0070
137	IHT000010	0.1445	0.2585
138	IHT000011	0.1016	0.0452
139	IHT000012	0.0703	0.0318
140	IHT000013	0.0507	0.0317
141	IHT000014	0.1640	0.0742
142	IHT000015	0.0078	0.0047
143	IHT000016	0.0821	0.0534
144	IHT000017	0.1055	0.0572
145	IHT000018	0.0664	0.0357
146	IHT000019	0.0625	0.0347
147	IHT000020	0.0391	0.0211
148	IHT000021	0.1093	6.7233
149	IHT000022	0.1641	0.1028
150	IHT000023	0.0937	0.0517
151	IHT000024	0.0273	0.0187
152	IHT000025	0.0039	0.0022
153	IHT000026	0.0664	0.0363
154	IHT000027	0.2031	0.1301
155	IHT000028	0.0312	0.0197

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0156	0.0086
157	IHT000030	0.0273	0.0147
158	IHT000031	0.0156	0.0085
159	IHT000032	0.0586	0.0316
160	IHT000033	0.0468	0.0253
161	IHT000034	0.0821	0.0505
162	IHT000035	0.1289	0.0601
163	IHT000036	0.0273	0.0170

Velocity 1 = 11.0645 (ft/sec) (+/- 2.1404 %)

Velocity 2 = 11.0614 (ft/sec) (+/- 1.7396 %)

Pressure drop = -0.5401 (psi)

Tsat in = 267.7212 (deg F) Tsat out = 268.4826 (deg F)

Phi inner = 297.4572 (kBtu/hr-ft2) (+/- 1.2362 %)

Phi outer = 300.6841 (kBtu/hr-ft2) (+/- 1.2626 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.6700	85.0931	84.9323	1.6861e-01	1.9002e+00
1	TRF000002	84.9996	85.4205	85.1595	1.2440e-01	1.9002e+00
2	TFM000001	85.3478	86.3983	85.9493	2.1022e-01	1.9002e+00
3	TIN000001	84.8915	85.7354	85.3304	1.4353e-01	1.9002e+00
4	TRV000001	86.7153	87.6590	87.1771	2.1378e-01	1.9002e+00
5	TSR000001	154.6671	158.0372	156.2418	8.3576e-01	1.9050e+00
6	TAO020136	143.0645	145.9837	144.2532	6.5250e-01	1.9037e+00
7	TAO050136	199.8967	202.1042	200.9150	5.1723e-01	1.9115e+00
8	TAO070136	193.8893	197.9740	195.7035	8.4802e-01	1.9106e+00
9	TAO080136	233.3536	235.0428	234.2124	3.4050e-01	1.9181e+00
10	TAO090136	241.4397	243.1272	242.5306	3.5046e-01	1.9199e+00
11	TAO100136	237.1051	238.7039	237.8280	3.9141e-01	1.9189e+00
12	TAO105136	242.9100	244.7900	243.8991	4.2497e-01	1.9203e+00
13	TAO110136	95.7684	96.3934	96.0563	1.5657e-01	1.9005e+00
14	TAO115136	247.5558	249.6142	248.7349	3.9788e-01	1.9214e+00
15	TAO120136	270.1425	271.7119	270.9512	3.7711e-01	1.9270e+00
16	TAO125136	250.0977	258.1876	252.7123	1.6586e+00	1.9224e+00
17	TAO130136	260.6143	261.7124	261.0645	2.5473e-01	1.9244e+00
18	TAO120048	115.1755	116.4075	115.7298	3.1116e-01	1.9014e+00
19	TAO130048	275.9554	276.7808	276.3951	2.2550e-01	1.9285e+00
20	TAO120224	267.6803	269.1584	268.3458	3.5860e-01	1.9263e+00
21	TAO130224	251.0035	252.6674	251.8690	4.1436e-01	1.9222e+00
22	TAO120312	267.2848	268.6729	267.9518	3.3656e-01	1.9262e+00
23	TAO130312	272.9703	273.9817	273.4194	2.4918e-01	1.9277e+00
24	TRT020000	195.6292	197.1816	196.3827	3.6332e-01	1.9107e+00
25	TRT070000	237.9929	239.2252	238.6871	2.8552e-01	1.9191e+00
26	TRT100000	269.1491	270.4384	269.7674	2.7871e-01	1.9267e+00
27	TRT120000	267.4709	268.3954	267.9109	2.3365e-01	1.9262e+00
28	TRT125000	97.4300	97.9505	97.6383	1.3446e-01	1.9005e+00
29	TRT130000	279.4417	281.2742	280.1052	3.7885e-01	1.9295e+00
30	EMPTY	39.6057	40.0646	39.8535	1.9026e-01	1.9011e+00
31	TAF050136	133.1395	136.2635	134.6410	7.7978e-01	1.9028e+00
32	TAF070136	153.8714	156.6450	155.1281	6.9632e-01	1.9049e+00
33	TAF080136	238.4521	243.3990	241.4666	1.1146e+00	1.9197e+00
34	TAF090136	96.4258	97.4683	96.9598	2.5653e-01	1.9005e+00
35	TAF100136	183.5735	185.4301	184.4727	4.0323e-01	1.9088e+00
36	TAF105136	188.8900	190.4350	189.5124	3.8405e-01	1.9096e+00
37	TAF110136	195.3435	196.4048	195.8139	2.2773e-01	1.9106e+00
38	TAF115136	200.9141	202.1663	201.4925	2.8445e-01	1.9116e+00
39	TAF120136	247.0382	250.9453	248.9646	9.3018e-01	1.9215e+00
40	TAF125136	210.8939	212.9802	211.7513	4.4276e-01	1.9135e+00
41	TAF130136	214.7220	216.0582	215.3979	2.9525e-01	1.9142e+00
42	TAF120048	215.3133	216.7552	216.1245	3.6436e-01	1.9143e+00
43	TAF130048	228.2046	229.5288	228.8636	3.3342e-01	1.9169e+00
44	TAF120224	201.8329	203.7584	202.7770	4.2373e-01	1.9118e+00
45	TAF130224	210.0448	211.2016	210.5730	2.7617e-01	1.9133e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1216	2.5530e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8857	1.4131e-01	1.9011e+00
48	TAI130048	265.7688	268.6347	267.2412	6.1042e-01	1.9260e+00
49	TAI130136	267.0804	268.5575	267.8487	3.2744e-01	1.9262e+00
50	TAI130224	272.4570	273.8439	273.2597	3.5548e-01	1.9276e+00
51	TAI130312	258.1470	260.7527	258.8285	4.9301e-01	1.9239e+00
52	TRR130000	143.4892	145.3925	144.5635	4.9749e-01	1.9037e+00
53	TSI000001	60.1702	60.8150	60.4885	1.6659e-01	1.9001e+00
54	TSI000002	88.2402	89.8110	89.0863	3.8300e-01	1.9002e+00
55	TSO000001	56.9898	57.7467	57.3752	1.6953e-01	1.9001e+00
56	TSO000002	75.0285	75.7721	75.4281	1.7110e-01	1.9000e+00
57	TAF020136	101.3715	103.8785	102.6796	7.0961e-01	1.9007e+00
58	TAF120312	210.4452	212.9379	211.8416	4.2659e-01	1.9135e+00
59	TAF130312	231.8585	235.0645	233.1981	7.1387e-01	1.9179e+00
60	EMPTY	3.7988	3.8281	3.8140	6.9229e-03	0.0000e+00
61	EMPTY	3.7842	3.8037	3.7958	4.5088e-03	0.0000e+00
62	EMPTY	3.7744	3.7891	3.7787	3.5072e-03	0.0000e+00
63	EMPTY	3.7646	3.7744	3.7707	3.6326e-03	0.0000e+00
64	EMPTY	1.8311	1.8359	1.8344	2.3008e-03	0.0000e+00
65	EMPTY	1.8408	1.8506	1.8493	2.3778e-03	0.0000e+00
66	EMPTY	1.8555	1.8604	1.8574	2.4164e-03	0.0000e+00
67	EMPTY	1.8652	1.8701	1.8699	9.6655e-04	0.0000e+00
68	EMPTY	1.8750	1.8799	1.8757	1.7115e-03	0.0000e+00
69	EMPTY	1.8848	1.8896	1.8873	2.4642e-03	0.0000e+00
70	EMPTY	1.8945	1.8994	1.8948	1.1714e-03	0.0000e+00
71	EMPTY	1.9092	1.9141	1.9093	6.9053e-04	0.0000e+00
72	EMPTY	1.9141	1.9189	1.9174	2.3008e-03	0.0000e+00
73	EMPTY	1.9287	1.9336	1.9288	6.9053e-04	0.0000e+00
74	EMPTY	1.9385	1.9434	1.9386	6.9053e-04	0.0000e+00
75	EMPTY	1.9434	1.9531	1.9484	1.3811e-03	0.0000e+00
76	EMPTY	1.9531	1.9580	1.9577	1.1714e-03	0.0000e+00
77	EMPTY	1.9678	1.9727	1.9686	1.8082e-03	0.0000e+00
78	EMPTY	1.9775	1.9873	1.9836	2.3261e-03	0.0000e+00
79	EMPTY	1.9971	2.0020	2.0017	1.1714e-03	0.0000e+00
80	PAN020136	-16.6232	3.8236	-7.4526	4.6309e+00	8.7020e-01
81	PAN050136	-26.2020	-0.7198	-14.4466	6.5249e+00	1.6804e+00
82	PAN070136	-21.9841	4.7951	-7.2884	6.0450e+00	8.7019e-01
83	PAN080136	-13.3454	8.4746	-4.2802	4.2660e+00	8.7007e-01
84	PAN090136	-13.1753	4.2960	-6.8551	5.9517e+00	8.7017e-01
85	PAN100136	-12.0382	27.1769	11.3566	8.7347e+00	8.7046e-01
86	PAN105136	-7.7020	11.9818	-2.0898	5.1141e+00	8.7002e-01
87	PAN110136	-1.8053	25.1265	7.4522	6.5157e+00	8.7020e-01
88	PAN115136	-3.9738	6.9362	2.3296	2.7767e+00	8.7002e-01
89	PAN120136	-6.6720	5.3825	-1.6640	2.6061e+00	8.7001e-01
90	PAN125136	3.0467	13.2701	7.7174	2.5105e+00	8.7021e-01
91	PAN130136	-3.8622	3.9960	-0.1391	1.7184e+00	8.7000e-01
92	PAN120048	-1.8822	7.8834	3.5972	2.1544e+00	8.7005e-01
93	PAN130048	-0.0526	7.6531	2.3171	1.7705e+00	8.7002e-01
94	PAN120224	-2.2183	22.7298	5.5484	5.0130e+00	8.7011e-01
95	PAN130224	-4.1211	4.9579	1.2515	2.1935e+00	8.7001e-01
96	PAN120312	-0.8317	7.2554	3.6757	1.8351e+00	8.7005e-01
97	PAN130312	-2.2066	5.2703	2.2490	1.9668e+00	8.7002e-01
98	PAB000136	39.8161	40.5485	40.2372	1.9487e-01	5.8866e-01
99	PAB100136	40.8258	41.6498	41.0840	1.4674e-01	5.8902e-01
100	PAB125136	40.5459	40.9121	40.7537	8.9287e-02	5.8888e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2263	40.5690	40.2151	3.5929e-01	7.5671e-01
102	PRV000001	19.4744	19.8406	19.7210	4.6072e-02	7.5162e-01
103	PSR000001	39.9327	40.2990	40.1378	7.9685e-02	7.5668e-01
104	PFM000001	18.3950	19.0359	18.7026	1.5226e-01	5.0218e-01
105	PAN000136	-25.5904	-3.6177	-14.9520	5.4057e+00	4.9201e+00
106	PFM000002	18.4742	18.8769	18.6920	9.3240e-02	2.0539e-01
107	EMPTY	-0.0049	0.0049	0.0047	1.3811e-03	0.0000e+00
108	EMPTY	-10.0000	-5.8154	-8.8019	1.5204e+00	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	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	177.2198	178.0011	177.5284	1.5328e-01	1.3382e+00
113	VPW000002	207.1327	207.7186	207.5351	1.2731e-01	1.4855e+00
114	VPW000003	256.4115	256.9974	256.7357	1.0885e-01	1.7404e+00
115	VPW000004	182.4031	182.7937	182.6571	1.2001e-01	1.3628e+00
116	VPW000005	243.3631	244.5350	243.7968	2.7421e-01	1.6721e+00
117	VPW000006	258.0266	258.6125	258.3155	1.1995e-01	1.7488e+00
118	IPW000001	955.4470	959.3517	957.0084	1.2473e+00	1.1080e+01
119	IPW000002	2209.6626	2223.3215	2216.2971	3.5480e+00	1.9292e+01
120	IPW000003	2236.6499	2244.4500	2240.3154	1.6546e+00	1.9464e+01
121	IPW000004	655.0950	656.5598	655.6616	3.1752e-01	5.5524e+00
122	IPW000005	433.7194	436.1605	434.5981	5.8355e-01	3.9734e+00
123	IPW000006	446.8149	448.2798	447.4201	3.8913e-01	4.0612e+00
124	EMPTY	-0.0244	-0.0146	-0.0195	3.5568e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.8659e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0154	2.4878e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0158	3.0501e-03	0.0000e+00
128	IHT000001	219.5387	222.4684	221.0466	7.1140e-01	4.6579e+00
129	IHT000002	225.9315	228.8612	227.6113	6.7773e-01	4.6894e+00
130	IHT000003	228.4030	231.1373	229.7858	6.5178e-01	4.7000e+00
131	IHT000004	224.3502	226.8893	225.4909	6.1556e-01	4.6792e+00
132	IHT000005	221.6496	224.1887	223.0636	5.9915e-01	4.6675e+00
133	IHT000006	215.7940	217.9424	216.9619	5.6702e-01	4.6387e+00
134	IHT000007	225.1352	227.4790	226.4242	5.1145e-01	4.6837e+00
135	IHT000008	222.5436	224.8873	223.8014	4.8993e-01	4.6711e+00
136	IHT000009	222.9229	225.0714	224.0791	5.0508e-01	4.6724e+00
137	IHT000010	54.6236	56.9674	55.8267	5.5293e-01	4.1378e+00
138	IHT000011	223.6666	226.0103	224.7370	6.1793e-01	4.6755e+00
139	IHT000012	219.5237	222.2581	220.7698	6.4584e-01	4.6566e+00
140	IHT000013	158.9844	161.7188	160.0508	6.6052e-01	4.4013e+00
141	IHT000014	219.9444	223.2647	221.4561	6.6123e-01	4.6599e+00
142	IHT000015	163.7620	166.4964	165.1644	5.8486e-01	4.4202e+00
143	IHT000016	152.7794	154.9279	153.8810	5.0186e-01	4.3793e+00
144	IHT000017	183.1956	186.5159	184.3363	6.6773e-01	4.4953e+00
145	IHT000018	184.8933	187.8230	186.1278	6.0675e-01	4.5027e+00
146	IHT000019	178.6734	181.9937	180.3609	7.6794e-01	4.4792e+00
147	IHT000020	183.5412	186.6662	185.2560	7.5725e-01	4.4991e+00
148	IHT000021	-3.3992	0.5071	-1.3914	8.8501e-01	4.1000e+00
149	IHT000022	158.2895	161.0239	159.7973	6.6502e-01	4.4004e+00
150	IHT000023	179.9504	182.8801	181.4073	6.7682e-01	4.4834e+00
151	IHT000024	144.5726	147.5023	145.8851	6.6150e-01	4.3518e+00
152	IHT000025	179.1579	182.0876	180.6149	6.4017e-01	4.4802e+00
153	IHT000026	181.3026	184.2323	182.8886	7.0547e-01	4.4894e+00
154	IHT000027	154.6424	157.9627	156.2948	7.2888e-01	4.3878e+00
155	IHT000028	156.7646	159.6942	158.3466	7.2141e-01	4.3952e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.2058	183.1355	181.7762	6.8681e-01	4.4849e+00
157	IHT000030	183.7703	186.5047	185.0712	7.0433e-01	4.4983e+00
158	IHT000031	181.0322	183.3759	182.3408	7.2033e-01	4.4872e+00
159	IHT000032	183.4998	185.8436	184.7929	6.9575e-01	4.4972e+00
160	IHT000033	183.3271	185.8661	184.7217	7.0256e-01	4.4969e+00
161	IHT000034	161.3206	163.6644	162.4066	5.8148e-01	4.4099e+00
162	IHT000035	213.1761	215.9105	214.4339	6.8704e-01	4.6269e+00
163	IHT000036	159.2060	161.5497	160.5029	5.8362e-01	4.4030e+00

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sum2

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Velocity 1 = 11.0598 (ft/sec) (+/- 2.1411 %)
Velocity 2 = 11.0525 (ft/sec) (+/- 1.7399 %)
Pressure drop = -0.6585 (psi)
Tsat in = 267.7199 (deg F) Tsat out = 268.3765 (deg F)
Phi inner = 299.0306 (kBtu/hr-ft2) (+/- 1.2356 %)
Phi outer = 301.3068 (kBtu/hr-ft2) (+/- 1.2627 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	84.6700	85.3047	84.9408	1.7645e-01	1.9002e+00
1	TRF0000002	84.9996	85.4205	85.1511	1.2784e-01	1.9002e+00
2	TFM0000001	85.8729	86.5039	86.1340	1.5498e-01	1.9002e+00
3	TIN0000001	85.3132	85.8406	85.5454	1.2610e-01	1.9002e+00
4	TRV0000001	86.8209	87.7640	87.3487	2.1579e-01	1.9002e+00
5	TSR0000001	152.0867	156.6487	154.1547	1.0911e+00	1.9048e+00
6	TAO020136	144.5756	147.1904	146.1287	6.7416e-01	1.9039e+00
7	TAO050136	199.7049	202.5819	200.9725	6.0314e-01	1.9115e+00
8	TAO070136	194.2793	197.7803	195.8786	7.6861e-01	1.9106e+00
9	TAO080136	233.5390	234.6679	234.0886	2.9969e-01	1.9181e+00
10	TAO090136	242.0011	243.5018	242.7592	4.3084e-01	1.9200e+00
11	TAO100136	236.9170	239.0806	237.7227	4.8630e-01	1.9189e+00
12	TAO105136	243.1919	245.1653	244.1998	3.9823e-01	1.9203e+00
13	TAO110136	94.7347	95.4625	95.0310	1.7367e-01	1.9004e+00
14	TAO115136	247.9299	249.8018	248.9034	3.6768e-01	1.9214e+00
15	TAO120136	269.6800	271.4354	270.6298	3.8975e-01	1.9269e+00
16	TAO125136	249.9113	254.5667	251.1186	8.0290e-01	1.9220e+00
17	TAO130136	260.6143	261.8949	261.2219	2.4974e-01	1.9245e+00
18	TAO120048	114.3533	115.5866	115.0771	3.3919e-01	1.9014e+00
19	TAO130048	275.8624	277.0553	276.5161	2.7107e-01	1.9285e+00
20	TAO120224	266.7554	268.6973	267.6953	4.3481e-01	1.9261e+00
21	TAO130224	251.1860	252.7612	252.1167	3.3341e-01	1.9222e+00
22	TAO120312	267.0070	268.6739	267.8481	3.7861e-01	1.9262e+00
23	TAO130312	272.7859	273.9828	273.4672	2.6800e-01	1.9277e+00
24	TRT020000	195.2408	196.9881	196.2585	3.7678e-01	1.9107e+00
25	TRT070000	238.0884	239.4147	238.6416	3.1826e-01	1.9191e+00
26	TRT100000	269.0566	270.1619	269.6826	3.1168e-01	1.9267e+00
27	TRT120000	267.7474	268.5800	267.9959	1.9454e-01	1.9262e+00
28	TRT125000	96.1874	96.9156	96.5410	1.9465e-01	1.9005e+00
29	TRT130000	279.6249	280.8168	280.1456	2.4739e-01	1.9295e+00
30	EMPTY	39.1464	40.0646	39.8122	2.1872e-01	1.9011e+00
31	TAF050136	133.6442	136.6679	134.8104	6.8806e-01	1.9028e+00
32	TAF070136	154.0679	156.6432	155.3420	6.7582e-01	1.9049e+00
33	TAF080136	238.6389	244.5157	241.7312	1.3530e+00	1.9198e+00
34	TAF090136	94.9673	96.1150	95.5560	2.8480e-01	1.9004e+00
35	TAF100136	184.0627	185.8207	184.8949	3.9243e-01	1.9089e+00
36	TAF105136	188.7949	191.1057	189.7746	4.8887e-01	1.9096e+00
37	TAF110136	195.4386	196.5977	196.0531	2.9310e-01	1.9107e+00
38	TAF115136	201.0106	202.6472	201.7502	4.1347e-01	1.9117e+00
39	TAF120136	245.8280	250.8550	248.6965	1.1396e+00	1.9214e+00
40	TAF125136	210.8917	212.6969	211.8653	3.9402e-01	1.9135e+00
41	TAF130136	215.1043	216.6285	215.6533	2.9865e-01	1.9142e+00
42	TAF120048	215.7943	217.4271	216.4974	3.4188e-01	1.9144e+00
43	TAF130048	228.0148	229.8144	229.0755	4.3311e-01	1.9170e+00
44	TAF120224	202.4104	204.0470	203.1849	4.2493e-01	1.9119e+00
45	TAF130224	209.8525	211.6826	210.7079	3.3064e-01	1.9133e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1353	2.4136e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.8948	1.5243e-01	1.9011e+00
48	TAI130048	265.8608	268.3584	267.0822	5.0665e-01	1.9260e+00
49	TAI130136	267.4494	268.9252	268.2913	3.1178e-01	1.9263e+00
50	TAI130224	273.0118	274.3976	273.6811	3.0305e-01	1.9277e+00
51	TAI130312	258.6121	260.0088	259.3647	3.3205e-01	1.9240e+00
52	TRR130000	140.7840	142.3896	141.7072	3.7751e-01	1.9035e+00
53	TSI000001	59.9559	60.8155	60.3085	1.9290e-01	1.9001e+00
54	TSI000002	87.1925	88.8690	87.9135	3.7439e-01	1.9002e+00
55	TSO000001	56.8821	57.7473	57.3276	2.0218e-01	1.9001e+00
56	TSO000002	75.1346	75.8782	75.4748	1.8950e-01	1.9000e+00
57	TAF020136	101.4759	104.2958	102.7631	6.9917e-01	1.9007e+00
58	TAF120312	210.6375	213.1289	211.8262	5.4793e-01	1.9135e+00
59	TAF130312	231.7648	235.2529	233.1491	6.8590e-01	1.9178e+00
60	EMPTY	3.7988	3.8232	3.8125	6.0811e-03	0.0000e+00
61	EMPTY	3.7891	3.8086	3.7956	4.4784e-03	0.0000e+00
62	EMPTY	3.7744	3.7842	3.7782	3.4583e-03	0.0000e+00
63	EMPTY	3.7646	3.7793	3.7711	2.6908e-03	0.0000e+00
64	EMPTY	1.8311	1.8457	1.8366	2.4184e-03	0.0000e+00
65	EMPTY	1.8457	1.8506	1.8505	6.9053e-04	0.0000e+00
66	EMPTY	1.8555	1.8604	1.8597	1.7115e-03	0.0000e+00
67	EMPTY	1.8701	1.8750	1.8703	9.6655e-04	0.0000e+00
68	EMPTY	1.8750	1.8799	1.8777	2.4484e-03	0.0000e+00
69	EMPTY	1.8848	1.8896	1.8894	1.1714e-03	0.0000e+00
70	EMPTY	1.8945	1.8994	1.8963	2.3675e-03	0.0000e+00
71	EMPTY	1.9092	1.9141	1.9113	2.4484e-03	0.0000e+00
72	EMPTY	1.9189	1.9189	1.9189	0.0000e+00	0.0000e+00
73	EMPTY	1.9287	1.9336	1.9317	2.3941e-03	0.0000e+00
74	EMPTY	1.9385	1.9434	1.9396	2.1065e-03	0.0000e+00
75	EMPTY	1.9482	1.9629	1.9519	2.9280e-03	0.0000e+00
76	EMPTY	1.9580	1.9580	1.9580	0.0000e+00	0.0000e+00
77	EMPTY	1.9678	1.9727	1.9720	1.7115e-03	0.0000e+00
78	EMPTY	1.9873	1.9873	1.9873	0.0000e+00	0.0000e+00
79	EMPTY	1.9971	2.0068	2.0022	1.5314e-03	0.0000e+00
80	PAN020136	-17.6913	2.2214	-6.7370	4.6174e+00	8.7016e-01
81	PAN050136	-23.6080	-1.1776	-13.4304	5.2093e+00	1.6803e+00
82	PAN070136	-22.2130	1.9722	-9.2842	5.8543e+00	8.7031e-01
83	PAN080136	-13.8032	5.6518	-4.5320	5.3130e+00	8.7007e-01
84	PAN090136	-13.1753	7.1189	-7.3342	6.3215e+00	8.7019e-01
85	PAN100136	-3.7984	26.7955	10.7188	7.2678e+00	8.7041e-01
86	PAN105136	-7.7020	9.0064	-1.4016	4.2695e+00	8.7001e-01
87	PAN110136	-3.6363	18.1074	6.5123	5.7299e+00	8.7015e-01
88	PAN115136	-5.1945	11.6664	2.3174	3.3586e+00	8.7002e-01
89	PAN120136	-6.8245	3.7040	-1.8258	2.6042e+00	8.7001e-01
90	PAN125136	3.5807	13.6515	8.5139	2.3820e+00	8.7026e-01
91	PAN130136	-3.7096	1.4783	-0.8944	1.2314e+00	8.7000e-01
92	PAN120048	-2.4163	7.8071	3.0097	2.1455e+00	8.7003e-01
93	PAN130048	-0.5867	6.7375	2.4712	1.5434e+00	8.7002e-01
94	PAN120224	-1.9131	19.6018	3.1696	4.4330e+00	8.7004e-01
95	PAN130224	-1.3745	6.6363	2.8369	2.2086e+00	8.7003e-01
96	PAN120312	-3.1205	10.3072	4.1396	2.4460e+00	8.7006e-01
97	PAN130312	-3.6561	8.9324	1.9515	2.2870e+00	8.7001e-01
98	PAB000136	39.9076	40.5485	40.2363	1.8186e-01	5.8866e-01
99	PAB100136	40.8258	41.3294	41.0886	1.1129e-01	5.8903e-01
100	PAB125136	40.5916	40.8205	40.6814	5.9907e-02	5.8885e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.2263	40.6911	39.9953	4.2376e-01	7.5664e-01
102	PRV0000001	19.5965	19.5965	19.5965	1.9267e-06	7.5160e-01
103	PSR0000001	39.9327	40.1769	40.0768	5.3409e-02	7.5666e-01
104	PFM0000001	18.3950	19.0359	18.6862	1.3298e-01	5.0218e-01
105	PAN000136	-29.7103	-6.3643	-18.2296	6.0714e+00	4.9202e+00
106	PFM0000002	18.4742	18.8602	18.6612	8.7880e-02	2.0537e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-5.8789	-7.5814	1.3383e+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	VPW0000001	177.4151	178.0011	177.6495	1.3087e-01	1.3387e+00
113	VPW0000002	207.3280	208.3046	207.5741	1.5690e-01	1.4857e+00
114	VPW0000003	256.4115	256.9974	256.7591	1.0654e-01	1.7405e+00
115	VPW0000004	182.4031	182.7937	182.5399	1.2001e-01	1.3622e+00
116	VPW0000005	242.3866	243.5584	242.9882	3.4363e-01	1.6678e+00
117	VPW0000006	258.0266	258.8079	258.3702	1.3984e-01	1.7491e+00
118	IPW0000001	941.7806	947.6376	944.3967	1.3440e+00	1.1012e+01
119	IPW0000002	2233.0779	2238.9316	2236.7080	1.7634e+00	1.9438e+01
120	IPW0000003	2250.2998	2254.2000	2252.2112	1.4470e+00	1.9549e+01
121	IPW0000004	655.0950	656.0715	655.6421	2.7267e-01	5.5523e+00
122	IPW0000005	432.7429	435.6723	434.6176	6.5696e-01	3.9735e+00
123	IPW0000006	448.7681	449.7446	449.4416	2.9413e-01	4.0751e+00
124	EMPTY	-0.0293	-0.0098	-0.0191	4.3940e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0118	2.8058e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0168	3.4400e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0146	3.1950e-03	0.0000e+00
128	IHT0000001	219.7341	222.4684	221.2575	6.3748e-01	4.6589e+00
129	IHT0000002	226.1268	229.4471	227.7167	6.3993e-01	4.6899e+00
130	IHT0000003	228.4030	231.1373	229.8288	5.9615e-01	4.7002e+00
131	IHT0000004	224.3502	226.8893	225.5260	5.7384e-01	4.6793e+00
132	IHT0000005	221.8449	224.5793	223.1300	5.4117e-01	4.6678e+00
133	IHT0000006	215.7940	218.3331	217.0869	5.4945e-01	4.6393e+00
134	IHT0000007	225.5259	227.6743	226.6703	5.3381e-01	4.6849e+00
135	IHT0000008	222.9342	225.2779	224.0866	5.3706e-01	4.6724e+00
136	IHT0000009	223.1182	225.4620	224.3252	5.8085e-01	4.6736e+00
137	IHT0000010	54.2330	56.7721	55.4517	6.0818e-01	4.1373e+00
138	IHT0000011	223.0807	225.8150	224.4206	6.0233e-01	4.6740e+00
139	IHT0000012	218.9378	221.6722	220.4339	5.7940e-01	4.6550e+00
140	IHT0000013	158.2031	160.7422	159.6523	5.5816e-01	4.3999e+00
141	IHT0000014	218.9679	221.8976	220.4404	7.1812e-01	4.6550e+00
142	IHT0000015	163.5667	166.4964	164.8363	5.9875e-01	4.4189e+00
143	IHT0000016	152.3888	155.1232	153.4747	5.4699e-01	4.3778e+00
144	IHT0000017	182.4144	185.9300	184.0160	7.1245e-01	4.4940e+00
145	IHT0000018	184.5027	187.4324	185.9598	6.6756e-01	4.5020e+00
146	IHT0000019	178.6734	181.6031	180.2203	5.2473e-01	4.4786e+00
147	IHT0000020	183.9318	186.6662	185.1817	5.7858e-01	4.4988e+00
148	IHT0000021	-3.0086	0.5071	-1.4148	7.0073e-01	4.1000e+00
149	IHT0000022	158.6801	161.2192	159.7856	5.3759e-01	4.4004e+00
150	IHT0000023	180.5364	182.8801	181.3995	5.0546e-01	4.4834e+00
151	IHT0000024	144.7679	146.9163	145.8266	4.8823e-01	4.3516e+00
152	IHT0000025	179.5486	182.0876	180.6696	5.4649e-01	4.4804e+00
153	IHT0000026	181.8885	184.4276	182.8769	5.8847e-01	4.4894e+00
154	IHT0000027	155.2284	157.9627	156.3261	6.3857e-01	4.3879e+00
155	IHT0000028	156.5692	160.0849	158.5537	7.0516e-01	4.3959e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.0105	183.7215	181.9637	7.0144e-01	4.4857e+00
157	IHT000030	183.3797	186.8953	185.3602	7.1791e-01	4.4995e+00
158	IHT000031	180.8368	184.3525	182.6376	7.0287e-01	4.4884e+00
159	IHT000032	182.9139	186.8201	184.9960	7.4096e-01	4.4980e+00
160	IHT000033	182.9365	186.8427	184.9248	7.3365e-01	4.4977e+00
161	IHT000034	160.9300	164.2503	162.5043	5.8979e-01	4.4103e+00
162	IHT000035	212.1995	215.9105	213.8284	6.0696e-01	4.6241e+00
163	IHT000036	159.0107	161.9403	160.5381	5.3915e-01	4.4031e+00

Velocity 1 = 0.004700 (ft/sec)
 Velocity 2 = 0.008901 (ft/sec)
 Pressure Drop = 0.118400 (psi)
 Tstat in = 0.001282 (deg F) Tstat out = 0.106110 (deg F)
 Phi inner = 1.573395 (kBtu/hr-ft2) Phi outer = 0.622681 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0085	0.0100
1	TRF000002	0.0084	0.0099
2	TFM000001	0.1847	0.2149
3	TIN000001	0.2150	0.2520
4	TRV000001	0.1716	0.1968
5	TSR000001	2.0871	1.3358
6	TAO020136	1.8755	1.3001
7	TAO050136	0.0575	0.0286
8	TAO070136	0.1751	0.0895
9	TAO080136	0.1238	0.0529
10	TAO090136	0.2286	0.0943
11	TAO100136	0.1053	0.0443
12	TAO105136	0.3007	0.1233
13	TAO110136	1.0253	1.0674
14	TAO115136	0.1685	0.0677
15	TAO120136	0.3214	0.1186
16	TAO125136	1.5937	0.6306
17	TAO130136	0.1574	0.0603
18	TAO120048	0.6527	0.5640
19	TAO130048	0.1210	0.0438
20	TAO120224	0.6505	0.2424
21	TAO130224	0.2477	0.0983
22	TAO120312	0.1037	0.0387
23	TAO130312	0.0478	0.0175
24	TRT020000	0.1242	0.0632
25	TRT070000	0.0455	0.0191
26	TRT100000	0.0848	0.0314
27	TRT120000	0.0850	0.0317
28	TRT125000	1.0973	1.1238
29	TRT130000	0.0404	0.0144
30	EMPTY	0.0413	0.1036
31	TAF050136	0.1694	0.1258
32	TAF070136	0.2139	0.1379
33	TAF080136	0.2646	0.1096
34	TAF090136	1.4038	1.4478
35	TAF100136	0.4222	0.2289
36	TAF105136	0.2622	0.1384
37	TAF110136	0.2392	0.1222
38	TAF115136	0.2577	0.1279
39	TAF120136	0.2681	0.1077
40	TAF125136	0.1140	0.0538
41	TAF130136	0.2554	0.1186
42	TAF120048	0.3729	0.1725
43	TAF130048	0.2119	0.0926
44	TAF120224	0.4079	0.2012
45	TAF130224	0.1349	0.0641

#	Name	Abs Diff	%Diff
46	EMPTY	0.0137	0.0359
47	EMPTY	0.0091	0.0228
48	TAI130048	0.1590	0.0595
49	TAI130136	0.4426	0.1652
50	TAI130224	0.4214	0.1542
51	TAI130312	0.5362	0.2072
52	TRR130000	2.8563	1.9758
53	TSI000001	0.1800	0.2976
54	TSI000002	1.1728	1.3165
55	TSO000001	0.0476	0.0830
56	TSO000002	0.0467	0.0619
57	TAF020136	0.0835	0.0813
58	TAF120312	0.0154	0.0073
59	TAF130312	0.0490	0.0210
60	EMPTY	0.0015	0.0393
61	EMPTY	0.0002	0.0053
62	EMPTY	0.0005	0.0132
63	EMPTY	0.0004	0.0106
64	EMPTY	0.0022	0.1199
65	EMPTY	0.0012	0.0649
66	EMPTY	0.0023	0.1238
67	EMPTY	0.0004	0.0214
68	EMPTY	0.0020	0.1066
69	EMPTY	0.0021	0.1113
70	EMPTY	0.0015	0.0792
71	EMPTY	0.0020	0.1047
72	EMPTY	0.0015	0.0782
73	EMPTY	0.0029	0.1504
74	EMPTY	0.0010	0.0516
75	EMPTY	0.0035	0.1796
76	EMPTY	0.0003	0.0153
77	EMPTY	0.0034	0.1727
78	EMPTY	0.0037	0.1865
79	EMPTY	0.0005	0.0250
80	PAN020136	0.7156	9.6020
81	PAN050136	1.0162	7.0342
82	PAN070136	1.9958	27.3832
83	PAN080136	0.2518	5.8829
84	PAN090136	0.4791	6.9890
85	PAN100136	0.6378	5.6161
86	PAN105136	0.6882	32.9314
87	PAN110136	0.9399	12.6124
88	PAN115136	0.0122	0.5237
89	PAN120136	0.1618	9.7236
90	PAN125136	0.7965	10.3208
91	PAN130136	0.7553	542.9907
92	PAN120048	0.5875	16.3321
93	PAN130048	0.1541	6.6506
94	PAN120224	2.3788	42.8736
95	PAN130224	1.5854	126.6800
96	PAN120312	0.4639	12.6207
97	PAN130312	0.2975	13.2281
98	PAB000136	0.0009	0.0022
99	PAB100136	0.0046	0.0112
100	PAB125136	0.0723	0.1774

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2198	0.5466
102	PRV000001	0.1245	0.6313
103	PSR000001	0.0610	0.1520
104	PFM000001	0.0164	0.0877
105	PAN000136	3.2776	21.9208
106	PFM000002	0.0308	0.1648
107	EMPTY	0.0003	6.3830
108	EMPTY	1.2205	13.8663
109	EMPTY	0.0001	2.0833
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.1211	0.0682
113	VPW000002	0.0390	0.0188
114	VPW000003	0.0234	0.0091
115	VPW000004	0.1172	0.0642
116	VPW000005	0.8086	0.3317
117	VPW000006	0.0547	0.0212
118	IPW000001	12.6117	1.3178
119	IPW000002	20.4109	0.9209
120	IPW000003	11.8958	0.5310
121	IPW000004	0.0195	0.0030
122	IPW000005	0.0195	0.0045
123	IPW000006	2.0215	0.4518
124	EMPTY	0.0004	2.0513
125	EMPTY	0.0013	9.9237
126	EMPTY	0.0014	9.0909
127	EMPTY	0.0012	7.5949
128	IHT000001	0.2109	0.0954
129	IHT000002	0.1054	0.0463
130	IHT000003	0.0430	0.0187
131	IHT000004	0.0351	0.0156
132	IHT000005	0.0664	0.0298
133	IHT000006	0.1250	0.0576
134	IHT000007	0.2461	0.1087
135	IHT000008	0.2852	0.1274
136	IHT000009	0.2461	0.1098
137	IHT000010	0.3750	0.6717
138	IHT000011	0.3164	0.1408
139	IHT000012	0.3359	0.1522
140	IHT000013	0.3985	0.2490
141	IHT000014	1.0157	0.4586
142	IHT000015	0.3281	0.1986
143	IHT000016	0.4063	0.2640
144	IHT000017	0.3203	0.1738
145	IHT000018	0.1680	0.0903
146	IHT000019	0.1406	0.0780
147	IHT000020	0.0743	0.0401
148	IHT000021	0.0234	1.6818
149	IHT000022	0.0117	0.0073
150	IHT000023	0.0078	0.0043
151	IHT000024	0.0585	0.0401
152	IHT000025	0.0547	0.0303
153	IHT000026	0.0117	0.0064
154	IHT000027	0.0313	0.0200
155	IHT000028	0.2071	0.1308

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1875	0.1031
157	IHT000030	0.2890	0.1562
158	IHT000031	0.2968	0.1628
159	IHT000032	0.2031	0.1099
160	IHT000033	0.2031	0.1100
161	IHT000034	0.0977	0.0602
162	IHT000035	0.6055	0.2824
163	IHT000036	0.0352	0.0219

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Velocity 1 = 10.0261 (ft/sec) (+/- 2.3354 %)
Velocity 2 = 10.0401 (ft/sec) (+/- 1.7712 %)
Pressure drop = -0.9366 (psi)
Tsats in = 267.9556 (deg F) Tsats out = 269.1995 (deg F)
Phi inner = 297.4324 (kBtu/hr-ft2) (+/- 1.2362 %)
Phi outer = 300.6842 (kBtu/hr-ft2) (+/- 1.2626 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.6700	85.3047	84.9746	1.9192e-01	1.9002e+00
1	TRF000002	84.9996	85.4205	85.2184	1.2727e-01	1.9002e+00
2	TFM000001	85.6629	86.3992	86.0251	1.9473e-01	1.9002e+00
3	TIN000001	85.1026	85.7351	85.4105	1.5340e-01	1.9002e+00
4	TRV000001	86.7173	87.6590	87.2695	1.9861e-01	1.9002e+00
5	TSR000001	156.3519	158.6325	157.3360	5.7101e-01	1.9051e+00
6	TAO020136	147.1898	149.8000	148.2105	4.8738e-01	1.9041e+00
7	TAO050136	207.9359	209.7463	208.7052	4.3468e-01	1.9129e+00
8	TAO070136	202.1441	204.7571	203.4454	6.2288e-01	1.9120e+00
9	TAO080136	245.2234	246.3424	245.8540	2.8041e-01	1.9207e+00
10	TAO090136	255.3479	257.3000	256.1997	3.5448e-01	1.9232e+00
11	TAO100136	249.6592	251.8059	250.5222	4.3387e-01	1.9218e+00
12	TAO105136	255.9262	257.8837	257.1645	4.5003e-01	1.9235e+00
13	TAO110136	95.8728	96.3939	96.1519	1.5492e-01	1.9005e+00
14	TAO115136	261.5429	262.9358	262.3749	3.1949e-01	1.9248e+00
15	TAO120136	284.3122	285.5042	285.0386	2.2370e-01	1.9309e+00
16	TAO125136	257.2596	265.4103	260.6168	1.7330e+00	1.9243e+00
17	TAO130136	272.9215	274.0152	273.3458	2.2560e-01	1.9277e+00
18	TAO120048	117.1244	118.3540	117.7315	3.3378e-01	1.9015e+00
19	TAO130048	293.5632	294.5644	294.1092	2.0633e-01	1.9335e+00
20	TAO120224	281.3973	282.6819	281.9147	3.4055e-01	1.9300e+00
21	TAO130224	263.9923	265.7395	264.7027	4.0902e-01	1.9254e+00
22	TAO120312	278.6356	280.1072	279.2469	3.3443e-01	1.9293e+00
23	TAO130312	284.9752	285.8882	285.3878	2.0913e-01	1.9310e+00
24	TRT020000	205.6901	206.8472	206.2650	2.9275e-01	1.9125e+00
25	TRT070000	253.1900	254.5987	253.9120	3.5463e-01	1.9227e+00
26	TRT100000	282.4568	283.5544	282.9174	2.3675e-01	1.9303e+00
27	TRT120000	459.7993	460.0563	459.9260	9.0211e-02	1.9998e+00
28	TRT125000	98.6714	99.6053	99.1900	1.9540e-01	1.9006e+00
29	TRT130000	288.9441	290.5853	289.8052	3.9241e-01	1.9323e+00
30	EMPTY	39.3761	40.2940	39.8535	2.1668e-01	1.9011e+00
31	TAF050136	138.1757	141.1880	139.4451	7.2494e-01	1.9032e+00
32	TAF070136	160.4019	162.9641	161.6001	6.5214e-01	1.9056e+00
33	TAF080136	250.0888	253.6116	251.6994	7.2007e-01	1.9221e+00
34	TAF090136	95.9053	97.0521	96.5852	2.7219e-01	1.9005e+00
35	TAF100136	192.5422	194.5815	193.6455	3.6802e-01	1.9103e+00
36	TAF105136	198.0254	199.6524	198.8035	4.0397e-01	1.9111e+00
37	TAF110136	205.2464	206.3978	205.8456	3.0672e-01	1.9124e+00
38	TAF115136	211.2725	212.7044	211.9094	3.2159e-01	1.9135e+00
39	TAF120136	253.0816	255.2156	254.3446	4.3641e-01	1.9228e+00
40	TAF125136	222.4400	223.7624	223.1283	3.4041e-01	1.9157e+00
41	TAF130136	226.8787	228.9576	227.7890	3.1840e-01	1.9167e+00
42	TAF120048	233.2842	235.3737	234.1544	4.7328e-01	1.9181e+00
43	TAF130048	259.8844	263.4084	261.9262	7.3137e-01	1.9247e+00
44	TAF120224	212.4815	214.4885	213.4489	4.6736e-01	1.9138e+00
45	TAF130224	220.5160	221.4726	221.0248	2.2581e-01	1.9153e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1216	2.0359e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0096	1.1873e-01	1.9011e+00
48	TAI130048	275.2751	276.7484	276.0011	3.0079e-01	1.9284e+00
49	TAI130136	279.4001	280.9588	280.0973	3.7393e-01	1.9295e+00
50	TAI130224	281.5875	283.7029	282.6068	4.2155e-01	1.9302e+00
51	TAI130312	270.5794	272.3358	271.2491	3.8252e-01	1.9271e+00
52	TRR130000	144.1908	145.5920	144.9040	3.2523e-01	1.9038e+00
53	TSI000001	59.8490	60.6008	60.1374	1.7954e-01	1.9001e+00
54	TSI000002	88.1347	89.7056	89.0865	3.4693e-01	1.9002e+00
55	TSO000001	56.7732	57.6391	57.2928	2.0739e-01	1.9001e+00
56	TSO000002	76.6193	77.3621	77.0270	2.1461e-01	1.9000e+00
57	TAF020136	102.9393	106.2747	104.6244	8.2478e-01	1.9008e+00
58	TAF120312	223.1497	225.4309	224.2067	5.0661e-01	1.9160e+00
59	TAF130312	245.0145	246.7929	245.9173	4.7708e-01	1.9207e+00
60	EMPTY	4.1309	4.1455	4.1386	4.3101e-03	0.0000e+00
61	EMPTY	4.1113	4.1260	4.1179	3.6393e-03	0.0000e+00
62	EMPTY	4.0918	4.1016	4.0974	2.9611e-03	0.0000e+00
63	EMPTY	4.0820	4.0918	4.0884	2.4662e-03	0.0000e+00
64	EMPTY	1.9678	1.9824	1.9728	2.3114e-03	0.0000e+00
65	EMPTY	1.9824	1.9873	1.9869	1.3381e-03	0.0000e+00
66	EMPTY	1.9922	1.9971	1.9937	2.2603e-03	0.0000e+00
67	EMPTY	2.0020	2.0117	2.0058	2.2689e-03	0.0000e+00
68	EMPTY	2.0068	2.0117	2.0112	1.4797e-03	0.0000e+00
69	EMPTY	2.0166	2.0215	2.0211	1.3381e-03	0.0000e+00
70	EMPTY	2.0264	2.0313	2.0270	1.6028e-03	0.0000e+00
71	EMPTY	2.0361	2.0459	2.0417	1.9754e-03	0.0000e+00
72	EMPTY	2.0459	2.0508	2.0485	2.4583e-03	0.0000e+00
73	EMPTY	2.0557	2.0654	2.0605	9.8648e-04	0.0000e+00
74	EMPTY	2.0654	2.0703	2.0685	2.3941e-03	0.0000e+00
75	EMPTY	2.0752	2.0801	2.0789	2.1065e-03	0.0000e+00
76	EMPTY	2.0801	2.0898	2.0851	1.2041e-03	0.0000e+00
77	EMPTY	2.0898	2.0996	2.0964	2.5362e-03	0.0000e+00
78	EMPTY	2.1094	2.1143	2.1103	1.8950e-03	0.0000e+00
79	EMPTY	2.1240	2.1289	2.1271	2.3675e-03	0.0000e+00
80	PAN020136	-19.6749	1.3059	-9.1189	4.4814e+00	8.7030e-01
81	PAN050136	-27.5753	-4.9923	-17.5289	4.8541e+00	1.6806e+00
82	PAN070136	-24.5781	-5.8861	-16.0774	4.4641e+00	8.7093e-01
83	PAN080136	-13.8032	9.7716	1.8981	4.4168e+00	8.7001e-01
84	PAN090136	-13.0227	8.4159	-3.3425	4.3068e+00	8.7004e-01
85	PAN100136	-1.4333	28.7028	10.0611	5.4282e+00	8.7036e-01
86	PAN105136	-3.3532	6.7176	0.8231	2.2283e+00	8.7000e-01
87	PAN110136	-6.4592	3.8405	-1.0164	1.9851e+00	8.7000e-01
88	PAN115136	0.5275	6.2495	3.0879	1.4879e+00	8.7003e-01
89	PAN120136	-0.8736	2.2544	0.4707	7.5005e-01	8.7000e-01
90	PAN125136	1.4445	2.8178	2.0426	3.3179e-01	8.7001e-01
91	PAN130136	0.4865	2.1650	1.3853	3.0761e-01	8.7001e-01
92	PAN120048	-5.3155	-2.1111	-4.5647	5.6934e-01	8.7007e-01
93	PAN130048	9.9419	12.2307	11.0420	4.9996e-01	8.7044e-01
94	PAN120224	-0.2347	7.8525	2.7942	1.7818e+00	8.7003e-01
95	PAN130224	-0.3827	1.7535	0.5877	3.8505e-01	8.7000e-01
96	PAN120312	4.2037	7.7895	5.3588	6.1288e-01	8.7010e-01
97	PAN130312	1.3030	2.6000	1.8965	3.3177e-01	8.7001e-01
98	PAB000136	39.9992	40.8689	40.3956	1.9435e-01	5.8873e-01
99	PAB100136	41.1920	41.6498	41.3541	9.3499e-02	5.8914e-01
100	PAB125136	41.0952	41.3698	41.2453	6.2067e-02	5.8909e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3483	40.8132	40.0979	3.9228e-01	7.5667e-01
102	PRV000001	19.5965	19.7186	19.6380	5.8413e-02	7.5161e-01
103	PSR000001	40.6652	40.9093	40.7799	4.5541e-02	7.5690e-01
104	PFM000001	15.0991	15.6484	15.3298	1.1878e-01	5.0147e-01
105	PAN000136	-37.0345	-15.0618	-25.9291	5.6572e+00	4.9204e+00
106	PFM000002	15.1854	15.5210	15.3730	5.9174e-02	2.0366e-01
107	EMPTY	0.0000	0.0098	0.0049	9.8648e-04	0.0000e+00
108	EMPTY	-10.0000	-5.6396	-7.5645	1.5653e+00	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	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	177.4151	178.0011	177.6768	1.2853e-01	1.3389e+00
113	VPW000002	207.5233	208.1092	207.7538	1.1632e-01	1.4866e+00
114	VPW000003	256.8021	256.9974	256.8997	9.8648e-02	1.7413e+00
115	VPW000004	182.4031	182.9890	182.7430	1.2359e-01	1.3632e+00
116	VPW000005	242.9725	243.7538	243.2617	2.0594e-01	1.6693e+00
117	VPW000006	258.4172	259.0032	258.6085	1.4493e-01	1.7503e+00
118	IPW000001	955.4470	961.3040	957.3989	1.3664e+00	1.1082e+01
119	IPW000002	2211.6140	2223.3215	2215.6729	2.8383e+00	1.9287e+01
120	IPW000003	2236.6499	2240.5498	2238.3662	1.2231e+00	1.9450e+01
121	IPW000004	654.6067	656.0715	655.3198	3.4470e-01	5.5499e+00
122	IPW000005	432.2547	434.6958	433.2506	5.7481e-01	3.9642e+00
123	IPW000006	446.3267	447.7915	447.2053	4.6270e-01	4.0597e+00
124	EMPTY	-0.0244	-0.0098	-0.0188	4.0685e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0127	2.9594e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0154	3.1752e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.7486e-03	0.0000e+00
128	IHT000001	219.9294	222.0778	220.9841	5.6497e-01	4.6576e+00
129	IHT000002	226.5174	228.6658	227.5136	5.4996e-01	4.6889e+00
130	IHT000003	228.4030	230.7467	229.6452	6.1353e-01	4.6993e+00
131	IHT000004	223.9596	226.6940	225.4987	5.6859e-01	4.6792e+00
132	IHT000005	221.8449	224.1887	223.0987	5.7330e-01	4.6677e+00
133	IHT000006	215.7940	218.3331	217.0713	5.8155e-01	4.6392e+00
134	IHT000007	225.3306	228.0649	226.6586	6.1130e-01	4.6848e+00
135	IHT000008	222.7389	225.2779	224.0436	6.3435e-01	4.6722e+00
136	IHT000009	223.3135	225.6573	224.2276	6.2070e-01	4.6731e+00
137	IHT000010	53.8424	57.1627	55.4869	6.3759e-01	4.1374e+00
138	IHT000011	223.0807	225.8150	224.4401	6.2510e-01	4.6741e+00
139	IHT000012	219.3284	221.6722	220.5198	6.0264e-01	4.6554e+00
140	IHT000013	158.5938	160.9375	159.8633	5.5559e-01	4.4006e+00
141	IHT000014	219.1632	221.5069	220.6162	6.3400e-01	4.6559e+00
142	IHT000015	163.5667	165.7151	164.8636	5.4069e-01	4.4190e+00
143	IHT000016	152.3888	154.3419	153.4747	5.3403e-01	4.3778e+00
144	IHT000017	182.8050	185.9300	184.2113	7.0033e-01	4.4948e+00
145	IHT000018	184.5027	187.0418	185.8466	7.1315e-01	4.5015e+00
146	IHT000019	179.0640	181.2124	180.0445	5.3451e-01	4.4779e+00
147	IHT000020	184.1271	186.2755	185.1583	5.5389e-01	4.4987e+00
148	IHT000021	-2.8132	-0.0789	-1.5203	6.5303e-01	4.1000e+00
149	IHT000022	158.4848	160.6333	159.5161	4.9448e-01	4.3994e+00
150	IHT000023	180.3411	182.4895	181.2706	5.0925e-01	4.4828e+00
151	IHT000024	144.7679	146.9163	145.7445	4.9912e-01	4.3513e+00
152	IHT000025	179.7439	181.6970	180.4977	4.9128e-01	4.4797e+00
153	IHT000026	181.8885	183.8417	182.7440	5.2924e-01	4.4888e+00
154	IHT000027	155.0331	157.1815	156.1151	5.3701e-01	4.3872e+00
155	IHT000028	156.7646	159.6942	158.4912	6.5716e-01	4.3957e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.2058	182.9402	181.9130	6.3357e-01	4.4854e+00
157	IHT000030	183.1844	186.7000	185.2821	6.8551e-01	4.4992e+00
158	IHT000031	180.8368	183.7665	182.4814	6.3392e-01	4.4878e+00
159	IHT000032	183.4998	186.2342	184.8905	6.5985e-01	4.4976e+00
160	IHT000033	183.3271	186.2568	184.8193	6.5881e-01	4.4973e+00
161	IHT000034	161.1253	163.4690	162.4183	5.3071e-01	4.4100e+00
162	IHT000035	212.5902	215.1292	213.8206	6.1162e-01	4.6241e+00
163	IHT000036	159.4013	161.7450	160.5615	5.1510e-01	4.4032e+00

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sum2

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Velocity 1 = 10.0194 (ft/sec) (+/- 2.3370 %)
 Velocity 2 = 10.0250 (ft/sec) (+/- 1.7718 %)
 Pressure drop = -0.8661 (psi)
 Tsat in = 267.9164 (deg F) Tsat out = 269.1078 (deg F)
 Phi inner = 300.1471 (kBtu/hr-ft2) (+/- 1.2352 %)
 Phi outer = 298.7929 (kBtu/hr-ft2) (+/- 1.2643 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	84.6700	85.3047	85.0381	1.5298e-01	1.9002e+00
1	TRF0000002	84.9996	85.4205	85.2310	1.3612e-01	1.9002e+00
2	TFM0000001	86.0833	87.3438	86.4660	2.0868e-01	1.9002e+00
3	TIN0000001	85.4190	86.1564	85.7815	1.4774e-01	1.9002e+00
4	TRV0000001	87.2393	88.2860	87.7549	2.1247e-01	1.9002e+00
5	TSR0000001	156.7498	159.6210	158.4806	7.9206e-01	1.9053e+00
6	TAO020136	147.5923	151.1027	149.3823	1.0435e+00	1.9042e+00
7	TAO050136	208.1249	209.7450	208.8467	3.8836e-01	1.9129e+00
8	TAO070136	202.8221	205.4332	203.8285	5.4645e-01	1.9120e+00
9	TAO080136	245.0408	246.8088	245.8060	3.7093e-01	1.9207e+00
10	TAO090136	255.1620	256.7419	255.8728	3.5867e-01	1.9231e+00
11	TAO100136	249.1940	251.3396	250.5001	4.3923e-01	1.9218e+00
12	TAO105136	256.1126	258.1636	257.2466	3.9830e-01	1.9235e+00
13	TAO110136	97.9376	98.6641	98.2951	1.7550e-01	1.9005e+00
14	TAO115136	261.8215	262.8430	262.3305	2.6475e-01	1.9248e+00
15	TAO120136	284.6792	285.5958	285.1780	1.7972e-01	1.9309e+00
16	TAO125136	255.5878	270.7603	265.7178	3.1064e+00	1.9256e+00
17	TAO130136	272.5580	273.7446	273.2083	2.4333e-01	1.9276e+00
18	TAO120048	119.4804	120.5038	120.0245	2.8297e-01	1.9017e+00
19	TAO130048	293.2921	294.3824	293.7826	2.1422e-01	1.9334e+00
20	TAO120224	280.9386	282.2231	281.6361	3.1454e-01	1.9299e+00
21	TAO130224	263.2584	264.8224	264.1967	3.4299e-01	1.9252e+00
22	TAO120312	278.5441	280.3834	279.2949	3.9608e-01	1.9293e+00
23	TAO130312	284.3350	285.6146	284.8730	2.5701e-01	1.9309e+00
24	TRT020000	205.8834	207.4251	206.5734	3.0558e-01	1.9125e+00
25	TRT070000	253.8478	255.0687	254.5392	2.9066e-01	1.9228e+00
26	TRT100000	282.9143	284.0109	283.5393	2.5086e-01	1.9305e+00
27	TRT120000	459.7993	460.1415	459.9569	8.3472e-02	1.9998e+00
28	TRT125000	102.3886	103.2170	102.7737	2.0877e-01	1.9007e+00
29	TRT130000	287.9426	289.3101	288.6647	3.4208e-01	1.9319e+00
30	EMPTY	39.1464	40.2940	39.8352	2.4093e-01	1.9011e+00
31	TAF050136	138.0742	141.2878	139.6261	7.7926e-01	1.9033e+00
32	TAF070136	160.6956	163.4572	161.9120	6.7546e-01	1.9057e+00
33	TAF080136	249.8132	253.4265	251.8665	8.6422e-01	1.9222e+00
34	TAF090136	97.9882	99.2355	98.6950	3.0457e-01	1.9006e+00
35	TAF100136	193.1252	194.4848	193.7427	3.4579e-01	1.9103e+00
36	TAF105136	198.3132	199.5575	198.9227	3.5193e-01	1.9112e+00
37	TAF110136	204.9598	206.5893	205.9646	3.2580e-01	1.9124e+00
38	TAF115136	211.1761	212.7054	211.9746	3.3132e-01	1.9135e+00
39	TAF120136	253.5465	255.0318	254.4200	3.7706e-01	1.9228e+00
40	TAF125136	222.5361	224.4227	223.2947	4.2920e-01	1.9158e+00
41	TAF130136	227.7279	229.7115	228.6888	4.2912e-01	1.9169e+00
42	TAF120048	234.4238	236.4176	235.3888	5.6540e-01	1.9183e+00
43	TAF130048	262.2043	265.7242	263.6094	7.3660e-01	1.9251e+00
44	TAF120224	212.6726	214.2019	213.4950	4.1183e-01	1.9138e+00
45	TAF130224	220.4198	221.4726	220.9827	2.4498e-01	1.9153e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1308	2.0295e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0050	1.6591e-01	1.9011e+00
48	TAI130048	275.5518	276.4726	276.0454	2.5678e-01	1.9284e+00
49	TAI130136	280.3165	281.8744	280.9766	3.5855e-01	1.9298e+00
50	TAI130224	282.2320	283.7024	283.0261	2.8817e-01	1.9303e+00
51	TAI130312	270.0254	271.5972	270.8795	3.7890e-01	1.9270e+00
52	TRR130000	144.5911	146.8924	145.7961	5.3599e-01	1.9039e+00
53	TSI000001	59.2065	59.9587	59.6747	1.6907e-01	1.9001e+00
54	TSI000002	87.8218	90.6475	89.4759	6.3779e-01	1.9003e+00
55	TSO000001	56.7731	57.5303	57.1109	1.9131e-01	1.9001e+00
56	TSO000002	76.5144	77.3626	76.9805	2.1631e-01	1.9000e+00
57	TAF020136	103.4600	106.5874	104.9955	8.4078e-01	1.9008e+00
58	TAF120312	223.6243	226.4754	225.1001	6.9371e-01	1.9161e+00
59	TAF130312	245.4839	247.4474	246.2207	4.1171e-01	1.9208e+00
60	EMPTY	4.1357	4.1553	4.1447	4.8688e-03	0.0000e+00
61	EMPTY	4.1211	4.1309	4.1237	2.6488e-03	0.0000e+00
62	EMPTY	4.0967	4.1064	4.1030	2.4662e-03	0.0000e+00
63	EMPTY	4.0918	4.1016	4.0938	2.7902e-03	0.0000e+00
64	EMPTY	1.9727	1.9824	1.9735	2.1364e-03	0.0000e+00
65	EMPTY	1.9824	1.9873	1.9872	6.9053e-04	0.0000e+00
66	EMPTY	1.9922	1.9971	1.9950	2.4344e-03	0.0000e+00
67	EMPTY	2.0020	2.0117	2.0065	1.8216e-03	0.0000e+00
68	EMPTY	2.0068	2.0117	2.0116	6.9053e-04	0.0000e+00
69	EMPTY	2.0166	2.0215	2.0213	9.6655e-04	0.0000e+00
70	EMPTY	2.0264	2.0313	2.0280	2.3365e-03	0.0000e+00
71	EMPTY	2.0410	2.0459	2.0434	2.4642e-03	0.0000e+00
72	EMPTY	2.0459	2.0508	2.0492	2.3008e-03	0.0000e+00
73	EMPTY	2.0605	2.0654	2.0610	1.4797e-03	0.0000e+00
74	EMPTY	2.0654	2.0752	2.0700	1.8216e-03	0.0000e+00
75	EMPTY	2.0752	2.0801	2.0800	6.9053e-04	0.0000e+00
76	EMPTY	2.0850	2.0898	2.0853	1.1714e-03	0.0000e+00
77	EMPTY	2.0947	2.0996	2.0983	2.1635e-03	0.0000e+00
78	EMPTY	2.1094	2.1191	2.1118	2.6562e-03	0.0000e+00
79	EMPTY	2.1240	2.1387	2.1289	1.7086e-03	0.0000e+00
80	PAN020136	-16.9283	1.2296	-7.9089	4.4314e+00	8.7022e-01
81	PAN050136	-29.4064	-7.5863	-19.2684	5.2066e+00	1.6807e+00
82	PAN070136	-24.6544	-7.6408	-17.6384	4.9971e+00	8.7112e-01
83	PAN080136	-9.2256	14.3493	3.8161	5.5073e+00	8.7005e-01
84	PAN090136	-13.1753	12.3069	-3.8430	6.4814e+00	8.7005e-01
85	PAN100136	-0.1363	34.5774	12.4003	7.9830e+00	8.7055e-01
86	PAN105136	-6.2524	7.1753	1.5158	2.6743e+00	8.7001e-01
87	PAN110136	-6.3066	5.0612	-1.1080	2.3205e+00	8.7000e-01
88	PAN115136	-0.9984	7.7754	2.5935	2.0355e+00	8.7002e-01
89	PAN120136	-0.7210	1.8730	0.6813	5.9356e-01	8.7000e-01
90	PAN125136	1.5208	3.0467	2.1281	3.3839e-01	8.7002e-01
91	PAN130136	1.3258	3.0042	1.9910	3.6509e-01	8.7001e-01
92	PAN120048	-5.7732	-4.4762	-5.0942	3.2524e-01	8.7009e-01
93	PAN130048	12.9936	15.4350	14.4173	5.9330e-01	8.7075e-01
94	PAN120224	0.2994	6.0215	2.4799	1.4643e+00	8.7002e-01
95	PAN130224	0.3802	2.9742	1.3583	5.2806e-01	8.7001e-01
96	PAN120312	5.0429	8.4761	6.6420	8.2430e-01	8.7016e-01
97	PAN130312	1.9896	4.1258	2.9250	4.8518e-01	8.7003e-01
98	PAB000136	39.9076	40.7774	40.3690	2.2763e-01	5.8872e-01
99	PAB100136	41.0547	41.5125	41.3120	1.0661e-01	5.8912e-01
100	PAB125136	41.0494	41.3241	41.1822	6.2211e-02	5.8907e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.3483	40.9353	40.0759	4.6070e-01	7.5666e-01
102	PRV0000001	19.4744	19.7186	19.6258	5.8152e-02	7.5160e-01
103	PSR0000001	40.5431	40.7872	40.6383	7.5168e-02	7.5685e-01
104	PFM0000001	15.0991	15.5569	15.3079	1.2820e-01	5.0146e-01
105	PAN000136	-34.7457	-10.4842	-23.9791	7.1429e+00	4.9204e+00
106	PFM0000002	15.1518	15.5042	15.3253	8.4656e-02	2.0364e-01
107	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-0.9668	-7.5366	1.9877e+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	VPW0000001	177.4151	178.0011	177.6846	1.6217e-01	1.3389e+00
113	VPW0000002	207.5233	207.9139	207.7109	1.1133e-01	1.4864e+00
114	VPW0000003	256.8021	257.7787	256.9896	1.5764e-01	1.7417e+00
115	VPW0000004	182.5984	182.7937	182.6805	9.7377e-02	1.3629e+00
116	VPW0000005	242.7772	244.3397	243.6210	4.1842e-01	1.6712e+00
117	VPW0000006	258.2219	259.0032	258.5694	1.7774e-01	1.7501e+00
118	IPW0000001	930.0665	939.8282	933.9318	2.7181e+00	1.0957e+01
119	IPW0000002	2211.6140	2219.4189	2214.6184	1.8155e+00	1.9280e+01
120	IPW0000003	2256.1499	2263.9500	2260.1279	2.0072e+00	1.9606e+01
121	IPW0000004	649.2356	650.7004	650.0366	2.7480e-01	5.5110e+00
122	IPW0000005	431.2782	434.2076	433.0261	8.7721e-01	3.9627e+00
123	IPW0000006	448.2798	450.2329	449.2463	4.6782e-01	4.0738e+00
124	EMPTY	-0.0293	-0.0098	-0.0189	4.1432e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0129	2.3675e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0136	3.3146e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	3.3073e-03	0.0000e+00
128	IHT0000001	219.5387	222.4684	221.0974	6.1699e-01	4.6582e+00
129	IHT0000002	225.7362	228.8612	227.5136	5.7892e-01	4.6889e+00
130	IHT0000003	228.2076	230.5514	229.5319	5.4289e-01	4.6988e+00
131	IHT0000004	223.9596	226.6940	225.3112	5.7160e-01	4.6783e+00
132	IHT0000005	221.6496	223.9934	222.9112	5.5413e-01	4.6668e+00
133	IHT0000006	215.5987	217.9424	216.9268	5.6359e-01	4.6385e+00
134	IHT0000007	225.3306	227.6743	226.4671	5.9932e-01	4.6839e+00
135	IHT0000008	222.7389	225.0826	223.9030	5.7312e-01	4.6715e+00
136	IHT0000009	222.7276	225.6573	224.0479	6.4785e-01	4.6722e+00
137	IHT0000010	54.0377	56.7721	55.5025	5.7079e-01	4.1374e+00
138	IHT0000011	223.0807	225.6197	224.3971	5.7292e-01	4.6739e+00
139	IHT0000012	219.1331	221.8675	220.4026	5.8958e-01	4.6549e+00
140	IHT0000013	158.7891	161.3281	159.7070	5.6943e-01	4.4001e+00
141	IHT0000014	219.5538	222.6788	220.7373	5.9896e-01	4.6564e+00
142	IHT0000015	163.5667	166.3011	164.7191	5.4140e-01	4.4185e+00
143	IHT0000016	151.9982	154.5372	153.4122	5.2432e-01	4.3776e+00
144	IHT0000017	182.6097	185.7347	184.3441	6.9770e-01	4.4954e+00
145	IHT0000018	183.9168	187.0418	185.8739	7.0420e-01	4.5017e+00
146	IHT0000019	178.2827	181.4077	179.9898	6.9789e-01	4.4777e+00
147	IHT0000020	183.5412	186.4708	185.1075	6.7944e-01	4.4985e+00
148	IHT0000021	-3.3992	-0.0789	-1.6257	7.3169e-01	4.1000e+00
149	IHT0000022	158.2895	160.6333	159.4028	5.6393e-01	4.3990e+00
150	IHT0000023	179.9504	182.2942	181.0988	4.9227e-01	4.4822e+00
151	IHT0000024	144.3773	146.7210	145.5531	5.2421e-01	4.3507e+00
152	IHT0000025	179.3532	181.6970	180.3922	5.4310e-01	4.4793e+00
153	IHT0000026	181.4979	184.4276	182.6581	6.2566e-01	4.4885e+00
154	IHT0000027	154.8377	157.9627	156.0605	6.9901e-01	4.3870e+00
155	IHT0000028	157.1552	160.4755	158.6513	7.5139e-01	4.3963e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.7918	183.7215	182.0809	7.0144e-01	4.4861e+00
157	IHT000030	184.1609	187.0906	185.4696	7.3319e-01	4.5000e+00
158	IHT000031	181.2275	184.1572	182.7236	7.2931e-01	4.4887e+00
159	IHT000032	183.3045	186.4295	185.0429	6.6877e-01	4.4982e+00
160	IHT000033	183.1318	186.2568	184.9951	6.7221e-01	4.4980e+00
161	IHT000034	161.1253	163.6644	162.5472	5.4109e-01	4.4105e+00
162	IHT000035	212.9808	215.7152	214.2815	6.3456e-01	4.6262e+00
163	IHT000036	159.4013	161.7450	160.6240	4.7484e-01	4.4034e+00

Velocity 1 = 0.006701 (ft/sec)
 Velocity 2 = 0.015100 (ft/sec)
 Pressure Drop = 0.070500 (psi)
 Tsat in = 0.039185 (deg F) Tsat out = 0.091705 (deg F)
 Phi inner = 2.714691 (kBtu/hr-ft2) Phi outer = 1.891296 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0635	0.0747
1	TRF000002	0.0126	0.0148
2	TFM000001	0.4409	0.5125
3	TIN000001	0.3710	0.4344
4	TRV000001	0.4854	0.5562
5	TSR000001	1.1446	0.7275
6	TAO020136	1.1718	0.7906
7	TAO050136	0.1415	0.0678
8	TAO070136	0.3831	0.1883
9	TAO080136	0.0480	0.0195
10	TAO090136	0.3269	0.1276
11	TAO100136	0.0221	0.0088
12	TAO105136	0.0821	0.0319
13	TAO110136	2.1432	2.2290
14	TAO115136	0.0444	0.0169
15	TAO120136	0.1394	0.0489
16	TAO125136	5.1010	1.9573
17	TAO130136	0.1375	0.0503
18	TAO120048	2.2930	1.9477
19	TAO130048	0.3266	0.1110
20	TAO120224	0.2786	0.0988
21	TAO130224	0.5060	0.1912
22	TAO120312	0.0480	0.0172
23	TAO130312	0.5148	0.1804
24	TRT020000	0.3084	0.1495
25	TRT070000	0.6272	0.2470
26	TRT100000	0.6219	0.2198
27	TRT120000	0.0309	0.0067
28	TRT125000	3.5837	3.6130
29	TRT130000	1.1405	0.3935
30	EMPTY	0.0183	0.0459
31	TAF050136	0.1810	0.1298
32	TAF070136	0.3119	0.1930
33	TAF080136	0.1671	0.0664
34	TAF090136	2.1098	2.1844
35	TAF100136	0.0972	0.0502
36	TAF105136	0.1192	0.0600
37	TAF110136	0.1190	0.0578
38	TAF115136	0.0652	0.0308
39	TAF120136	0.0783	0.0308
40	TAF125136	0.1664	0.0746
41	TAF130136	0.8998	0.3950
42	TAF120048	1.2344	0.5272
43	TAF130048	1.6832	0.6426
44	TAF120224	0.0461	0.0216
45	TAF130224	0.0421	0.0190

#	Name	Abs Diff	%Diff
46	EMPTY	0.0092	0.0241
47	EMPTY	0.0046	0.0115
48	TAI130048	0.0443	0.0161
49	TAI130136	0.8793	0.3139
50	TAI130224	0.4193	0.1484
51	TAI130312	0.3696	0.1363
52	TRR130000	0.8921	0.6156
53	TSI000001	0.4627	0.7694
54	TSI000002	0.3894	0.4371
55	TSO000001	0.1819	0.3175
56	TSO000002	0.0465	0.0604
57	TAF020136	0.3711	0.3547
58	TAF120312	0.8934	0.3985
59	TAF130312	0.3034	0.1234
60	EMPTY	0.0061	0.1474
61	EMPTY	0.0058	0.1409
62	EMPTY	0.0056	0.1367
63	EMPTY	0.0054	0.1321
64	EMPTY	0.0007	0.0355
65	EMPTY	0.0003	0.0151
66	EMPTY	0.0013	0.0652
67	EMPTY	0.0007	0.0349
68	EMPTY	0.0004	0.0199
69	EMPTY	0.0002	0.0099
70	EMPTY	0.0010	0.0493
71	EMPTY	0.0017	0.0833
72	EMPTY	0.0007	0.0342
73	EMPTY	0.0005	0.0243
74	EMPTY	0.0015	0.0725
75	EMPTY	0.0011	0.0529
76	EMPTY	0.0002	0.0096
77	EMPTY	0.0019	0.0906
78	EMPTY	0.0015	0.0711
79	EMPTY	0.0018	0.0846
80	PAN020136	1.2100	13.2691
81	PAN050136	1.7395	9.9236
82	PAN070136	1.5610	9.7093
83	PAN080136	1.9180	101.0484
84	PAN090136	0.5005	14.9738
85	PAN100136	2.3392	23.2499
86	PAN105136	0.6927	84.1575
87	PAN110136	0.0916	9.0122
88	PAN115136	0.4944	16.0109
89	PAN120136	0.2106	44.7419
90	PAN125136	0.0855	4.1858
91	PAN130136	0.6057	43.7234
92	PAN120048	0.5295	11.5999
93	PAN130048	3.3753	30.5678
94	PAN120224	0.3143	11.2483
95	PAN130224	0.7706	131.1213
96	PAN120312	1.2832	23.9457
97	PAN130312	1.0285	54.2315
98	PAB000136	0.0266	0.0658
99	PAB100136	0.0421	0.1018
100	PAB125136	0.0631	0.1530

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0220	0.0549
102	PRV000001	0.0122	0.0621
103	PSR000001	0.1416	0.3472
104	PFM000001	0.0219	0.1429
105	PAN000136	1.9500	7.5205
106	PFM000002	0.0477	0.3103
107	EMPTY	0.0002	4.0816
108	EMPTY	0.0279	0.3688
109	EMPTY	0.0003	6.8182
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0078	0.0044
113	VPW000002	0.0429	0.0206
114	VPW000003	0.0899	0.0350
115	VPW000004	0.0625	0.0342
116	VPW000005	0.3593	0.1477
117	VPW000006	0.0391	0.0151
118	IPW000001	23.4671	2.4511
119	IPW000002	1.0544	0.0476
120	IPW000003	21.7617	0.9722
121	IPW000004	5.2832	0.8062
122	IPW000005	0.2245	0.0518
123	IPW000006	2.0410	0.4564
124	EMPTY	0.0001	0.5319
125	EMPTY	0.0002	1.5748
126	EMPTY	0.0018	11.6883
127	EMPTY	0.0008	4.9383
128	IHT000001	0.1133	0.0513
129	IHT000002	0.0000	0.0000
130	IHT000003	0.1133	0.0493
131	IHT000004	0.1875	0.0831
132	IHT000005	0.1875	0.0840
133	IHT000006	0.1445	0.0666
134	IHT000007	0.1915	0.0845
135	IHT000008	0.1406	0.0628
136	IHT000009	0.1797	0.0801
137	IHT000010	0.0156	0.0281
138	IHT000011	0.0430	0.0192
139	IHT000012	0.1172	0.0531
140	IHT000013	0.1563	0.0978
141	IHT000014	0.1211	0.0549
142	IHT000015	0.1445	0.0876
143	IHT000016	0.0625	0.0407
144	IHT000017	0.1328	0.0721
145	IHT000018	0.0273	0.0147
146	IHT000019	0.0547	0.0304
147	IHT000020	0.0508	0.0274
148	IHT000021	0.1054	6.9328
149	IHT000022	0.1133	0.0710
150	IHT000023	0.1718	0.0948
151	IHT000024	0.1914	0.1313
152	IHT000025	0.1055	0.0584
153	IHT000026	0.0859	0.0470
154	IHT000027	0.0546	0.0350
155	IHT000028	0.1601	0.1010

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1679	0.0923
157	IHT000030	0.1875	0.1012
158	IHT000031	0.2422	0.1327
159	IHT000032	0.1524	0.0824
160	IHT000033	0.1758	0.0951
161	IHT000034	0.1289	0.0794
162	IHT000035	0.4609	0.2156
163	IHT000036	0.0625	0.0389

Velocity 1 = 9.9303 (ft/sec) (+/- 2.3580 %)
 Velocity 2 = 9.9345 (ft/sec) (+/- 1.7755 %)
 Pressure drop = -0.5831 (psi)
 Tsat in = 267.6275 (deg F) Tsat out = 268.4168 (deg F)
 Phi inner = 299.4564 (kBtu/hr-ft2) (+/- 1.2355 %)
 Phi outer = 299.2442 (kBtu/hr-ft2) (+/- 1.2638 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.6700	85.3047	85.0000	1.6642e-01	1.9002e+00
1	TRF000002	84.9996	85.4205	85.2816	1.2475e-01	1.9002e+00
2	TFM000001	86.3977	87.3423	86.9211	1.9501e-01	1.9002e+00
3	TIN000001	85.9456	86.6833	86.2975	1.5296e-01	1.9002e+00
4	TRV000001	87.8660	88.5999	88.2502	1.7893e-01	1.9002e+00
5	TSR000001	159.5216	164.2595	162.5688	1.1670e+00	1.9058e+00
6	TAO020136	147.9939	151.4034	149.6372	6.7522e-01	1.9043e+00
7	TAO050136	206.5978	208.9843	207.9635	5.0288e-01	1.9128e+00
8	TAO070136	201.9503	204.1769	202.8782	4.7260e-01	1.9119e+00
9	TAO080136	243.0825	244.4796	243.6503	2.8936e-01	1.9202e+00
10	TAO090136	253.5811	255.1640	254.4728	3.5578e-01	1.9228e+00
11	TAO100136	247.8857	249.8472	248.7397	4.7298e-01	1.9214e+00
12	TAO105136	253.8730	255.8337	255.0997	4.1312e-01	1.9229e+00
13	TAO110136	97.7313	98.4573	98.0661	1.6930e-01	1.9005e+00
14	TAO115136	259.6846	260.7079	260.1924	2.4290e-01	1.9242e+00
15	TAO120136	282.2952	283.2130	282.7449	1.9822e-01	1.9303e+00
16	TAO125136	261.8961	271.6800	267.1101	1.7318e+00	1.9260e+00
17	TAO130136	272.0164	273.9225	272.9702	4.2353e-01	1.9276e+00
18	TAO120048	120.6042	121.7295	121.1101	3.2161e-01	1.9018e+00
19	TAO130048	291.0203	292.4750	291.5569	3.3589e-01	1.9328e+00
20	TAO120224	278.4599	279.9294	279.2340	3.0389e-01	1.9293e+00
21	TAO130224	260.3196	261.4234	260.8256	2.8939e-01	1.9244e+00
22	TAO120312	277.7159	279.6476	278.5792	4.2984e-01	1.9291e+00
23	TAO130312	285.2484	286.5269	285.9449	2.4685e-01	1.9312e+00
24	TRT020000	209.1575	210.7921	210.0516	3.0106e-01	1.9132e+00
25	TRT070000	260.6906	262.0930	261.3132	3.7656e-01	1.9245e+00
26	TRT100000	287.7520	289.1209	288.4981	3.0813e-01	1.9319e+00
27	TRT120000	459.7993	460.1415	459.9619	8.5082e-02	1.9998e+00
28	TRT125000	101.9762	102.7010	102.3717	1.9109e-01	1.9007e+00
29	TRT130000	288.8533	292.0416	290.6195	8.8295e-01	1.9325e+00
30	EMPTY	39.3761	40.2940	39.8122	1.8690e-01	1.9011e+00
31	TAF050136	138.5791	141.5890	139.9131	8.2579e-01	1.9033e+00
32	TAF070136	160.4995	163.4572	161.5313	6.9661e-01	1.9056e+00
33	TAF080136	248.4224	253.0562	250.2441	9.0275e-01	1.9218e+00
34	TAF090136	97.7794	99.0286	98.3768	3.2060e-01	1.9005e+00
35	TAF100136	192.0558	193.8054	192.9209	3.8386e-01	1.9102e+00
36	TAF105136	197.2579	198.8908	198.2041	4.0303e-01	1.9110e+00
37	TAF110136	204.4795	206.0160	205.0965	3.3470e-01	1.9123e+00
38	TAF115136	210.4099	211.5583	211.0287	2.8217e-01	1.9134e+00
39	TAF120136	251.2262	253.3626	252.2498	4.6968e-01	1.9222e+00
40	TAF125136	221.9698	224.8922	223.5716	6.4149e-01	1.9158e+00
41	TAF130136	231.1268	236.2133	233.0338	1.1423e+00	1.9178e+00
42	TAF120048	251.4293	258.6508	255.1404	2.0069e+00	1.9230e+00
43	TAF130048	266.8333	267.9432	267.2497	2.3967e-01	1.9260e+00
44	TAF120224	212.0031	213.7246	212.8051	3.9248e-01	1.9137e+00
45	TAF130224	219.3659	220.6113	219.8164	2.5241e-01	1.9151e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1170	1.9838e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.9683	1.3187e-01	1.9011e+00
48	TAI130048	274.7227	276.2886	275.5024	3.4573e-01	1.9282e+00
49	TAI130136	280.2253	281.6002	281.0479	3.0882e-01	1.9298e+00
50	TAI130224	280.1156	282.1394	280.8242	3.4294e-01	1.9297e+00
51	TAI130312	266.6926	267.9897	267.3246	3.6179e-01	1.9261e+00
52	TRR130000	145.9923	147.7914	147.0010	3.7892e-01	1.9040e+00
53	TSI000001	59.5278	60.3866	59.9297	1.7992e-01	1.9001e+00
54	TSI000002	89.8095	91.2740	90.4862	3.3354e-01	1.9003e+00
55	TSO000001	56.7738	57.6385	57.1865	1.9012e-01	1.9001e+00
56	TSO000002	76.8318	77.7862	77.3004	2.0777e-01	1.9000e+00
57	TAF020136	103.9814	106.7959	105.4394	8.0179e-01	1.9008e+00
58	TAF120312	233.9565	238.1068	235.6985	8.2189e-01	1.9184e+00
59	TAF130312	250.6209	252.6720	251.4962	4.5007e-01	1.9221e+00
60	EMPTY	4.2725	4.2920	4.2817	4.9570e-03	0.0000e+00
61	EMPTY	4.2529	4.2676	4.2599	3.2851e-03	0.0000e+00
62	EMPTY	4.2334	4.2432	4.2384	2.8744e-03	0.0000e+00
63	EMPTY	4.2236	4.2334	4.2282	3.0261e-03	0.0000e+00
64	EMPTY	2.0313	2.0361	2.0334	2.4484e-03	0.0000e+00
65	EMPTY	2.0410	2.0508	2.0461	1.6972e-03	0.0000e+00
66	EMPTY	2.0459	2.0605	2.0549	2.4878e-03	0.0000e+00
67	EMPTY	2.0557	2.0654	2.0651	1.5314e-03	0.0000e+00
68	EMPTY	2.0654	2.0752	2.0698	1.7784e-03	0.0000e+00
69	EMPTY	2.0752	2.0850	2.0800	1.2041e-03	0.0000e+00
70	EMPTY	2.0801	2.0898	2.0859	2.2058e-03	0.0000e+00
71	EMPTY	2.0996	2.1045	2.1003	1.7115e-03	0.0000e+00
72	EMPTY	2.1045	2.1094	2.1060	2.2603e-03	0.0000e+00
73	EMPTY	2.1143	2.1191	2.1168	2.4642e-03	0.0000e+00
74	EMPTY	2.1191	2.1289	2.1243	1.5314e-03	0.0000e+00
75	EMPTY	2.1338	2.1484	2.1346	2.4878e-03	0.0000e+00
76	EMPTY	2.1387	2.1436	2.1406	2.4164e-03	0.0000e+00
77	EMPTY	2.1484	2.1533	2.1521	2.1635e-03	0.0000e+00
78	EMPTY	2.1631	2.1680	2.1665	2.2603e-03	0.0000e+00
79	EMPTY	2.1777	2.1875	2.1824	1.3811e-03	0.0000e+00
80	PAN020136	-16.6995	-0.6014	-8.6703	3.8474e+00	8.7027e-01
81	PAN050136	-25.1339	-4.5345	-16.8392	4.4378e+00	1.6805e+00
82	PAN070136	-24.5781	-4.1313	-15.9874	5.4800e+00	8.7092e-01
83	PAN080136	-13.4217	15.7988	4.1015	5.5894e+00	8.7006e-01
84	PAN090136	-13.0990	12.8410	0.1197	5.3279e+00	8.7000e-01
85	PAN100136	0.7029	34.5011	9.0312	5.9844e+00	8.7029e-01
86	PAN105136	-6.7102	5.8020	-0.4602	2.3918e+00	8.7000e-01
87	PAN110136	-2.1868	7.5789	2.1925	2.3121e+00	8.7002e-01
88	PAN115136	0.3749	6.0970	3.0406	1.3386e+00	8.7003e-01
89	PAN120136	0.8811	3.4751	1.7051	4.9372e-01	8.7001e-01
90	PAN125136	1.2156	3.0467	2.1845	4.1338e-01	8.7002e-01
91	PAN130136	2.5465	4.3775	3.4818	4.2094e-01	8.7004e-01
92	PAN120048	-6.0784	-2.7215	-3.9147	6.2283e-01	8.7006e-01
93	PAN130048	31.3042	37.7129	34.4384	1.3972e+00	8.7425e-01
94	PAN120224	0.4520	9.6836	3.9798	2.0172e+00	8.7006e-01
95	PAN130224	3.4320	5.9497	4.7961	5.8423e-01	8.7008e-01
96	PAN120312	17.1737	20.4543	18.4813	8.2690e-01	8.7123e-01
97	PAN130312	5.5754	7.7880	6.3780	5.2908e-01	8.7015e-01
98	PAB000136	39.8619	40.5485	40.1740	1.9370e-01	5.8863e-01
99	PAB100136	40.7800	41.2378	40.9650	1.1697e-01	5.8897e-01
100	PAB125136	40.5916	40.9121	40.7089	6.9306e-02	5.8886e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.1042	40.5690	39.8293	3.8477e-01	7.5658e-01
102	PRV000001	19.5965	19.8406	19.7137	4.2430e-02	7.5162e-01
103	PSR000001	39.5665	39.9327	39.7521	7.4966e-02	7.5656e-01
104	PFM000001	14.8245	15.2822	15.0332	1.0792e-01	5.0141e-01
105	PAN000136	-26.0482	-4.0755	-16.1422	5.8774e+00	4.9202e+00
106	PFM000002	14.9169	15.1854	15.0461	7.3435e-02	2.0351e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-0.9180	-7.7484	1.7912e+00	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	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	177.4151	178.0011	177.6846	1.2409e-01	1.3389e+00
113	VPW000002	207.5233	207.9139	207.7460	1.0447e-01	1.4865e+00
114	VPW000003	256.8021	257.1927	256.9349	1.2124e-01	1.7415e+00
115	VPW000004	182.5984	183.1843	182.7782	1.3578e-01	1.3634e+00
116	VPW000005	242.9725	244.1444	243.5117	3.1950e-01	1.6706e+00
117	VPW000006	258.4172	259.0032	258.6632	1.2974e-01	1.7506e+00
118	IPW000001	939.8282	949.5900	944.5140	2.0871e+00	1.1013e+01
119	IPW000002	2205.7600	2219.4189	2212.0825	3.9137e+00	1.9261e+01
120	IPW000003	2252.2498	2260.0498	2256.2280	2.2958e+00	1.9578e+01
121	IPW000004	650.2122	653.1418	651.6284	1.1302e+00	5.5227e+00
122	IPW000005	429.8135	432.2547	431.1609	6.8736e-01	3.9499e+00
123	IPW000006	446.8149	447.7915	447.2346	2.6118e-01	4.0599e+00
124	EMPTY	-0.0244	-0.0098	-0.0187	3.3728e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0120	3.3029e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0139	3.0180e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	3.4470e-03	0.0000e+00
128	IHT000001	218.9528	221.8825	220.7888	5.7318e-01	4.6567e+00
129	IHT000002	225.5408	228.4705	227.2636	5.7817e-01	4.6877e+00
130	IHT000003	227.8170	230.3561	229.3561	5.8745e-01	4.6979e+00
131	IHT000004	223.7643	226.4986	225.2448	6.1900e-01	4.6780e+00
132	IHT000005	221.4543	224.1887	222.9229	5.9874e-01	4.6668e+00
133	IHT000006	215.4034	218.5284	216.9932	6.4357e-01	4.6388e+00
134	IHT000007	225.1352	227.8696	226.5257	6.0956e-01	4.6842e+00
135	IHT000008	222.7389	225.4733	223.9538	5.8299e-01	4.6718e+00
136	IHT000009	222.3370	225.4620	224.0791	6.3606e-01	4.6724e+00
137	IHT000010	53.6471	56.5768	55.2525	5.4717e-01	4.1371e+00
138	IHT000011	222.2994	225.8150	224.1003	6.1039e-01	4.6725e+00
139	IHT000012	218.1566	221.6722	220.1565	6.3204e-01	4.6537e+00
140	IHT000013	157.8125	161.1328	159.5586	6.0414e-01	4.3995e+00
141	IHT000014	218.5772	222.0929	220.4444	6.8021e-01	4.6551e+00
142	IHT000015	163.1761	165.7151	164.6488	5.9085e-01	4.4182e+00
143	IHT000016	151.9982	154.7326	153.3106	5.6364e-01	4.3773e+00
144	IHT000017	182.2191	185.3441	184.0589	6.8013e-01	4.4942e+00
145	IHT000018	184.1121	187.4324	185.8505	6.9615e-01	4.5016e+00
146	IHT000019	178.8687	181.2124	179.9507	4.8038e-01	4.4775e+00
147	IHT000020	183.9318	186.0802	185.0333	5.0495e-01	4.4982e+00
148	IHT000021	-3.2039	-0.2742	-1.6961	6.3508e-01	4.1000e+00
149	IHT000022	158.2895	160.4379	159.3950	4.7778e-01	4.3989e+00
150	IHT000023	179.9504	182.2942	181.1261	5.1522e-01	4.4823e+00
151	IHT000024	144.7679	146.7210	145.6156	4.6456e-01	4.3509e+00
152	IHT000025	179.1579	181.5017	180.4274	4.9795e-01	4.4794e+00
153	IHT000026	181.4979	184.0370	182.6581	5.3000e-01	4.4885e+00
154	IHT000027	154.8377	157.3768	156.0097	5.1599e-01	4.3868e+00
155	IHT000028	157.5458	160.0849	158.8271	6.0510e-01	4.3969e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.9871	183.3308	182.1473	5.3439e-01	4.4864e+00
157	IHT000030	184.5515	187.0906	185.5477	5.2682e-01	4.5003e+00
158	IHT000031	181.8134	184.1572	182.8212	4.8706e-01	4.4891e+00
159	IHT000032	184.2811	186.2342	185.0898	4.9128e-01	4.4984e+00
160	IHT000033	184.1083	186.2568	185.0068	5.1900e-01	4.4981e+00
161	IHT000034	161.5159	163.6644	162.5824	4.5542e-01	4.4106e+00
162	IHT000035	212.9808	215.3245	214.1058	5.5882e-01	4.6254e+00
163	IHT000036	159.7919	161.3544	160.6513	4.4643e-01	4.4035e+00

Velocity 1 = 9.9524 (ft/sec) (+/- 2.3527 %)
Velocity 2 = 9.9584 (ft/sec) (+/- 1.7745 %)
Pressure drop = -0.5523 (psi)
Tsat in = 267.5432 (deg F) Tsat out = 268.3200 (deg F)
Phi inner = 300.4618 (kBtu/hr-ft2) (+/- 1.2351 %)
Phi outer = 299.6847 (kBtu/hr-ft2) (+/- 1.2636 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	84.6700	85.3047	85.0423	1.6860e-01	1.9002e+00
1	TRF0000002	84.9996	85.4205	85.2395	1.4735e-01	1.9002e+00
2	TFM0000001	86.5030	87.3438	86.8750	1.8998e-01	1.9002e+00
3	TIN0000001	85.9454	86.5777	86.2513	1.4633e-01	1.9002e+00
4	TRV0000001	87.6575	88.6005	88.1375	2.1473e-01	1.9002e+00
5	TSR0000001	159.7179	162.4842	161.1676	6.8233e-01	1.9056e+00
6	TAO020136	148.1942	150.3011	149.3204	5.0231e-01	1.9042e+00
7	TAO050136	207.2673	209.5580	208.2002	5.0515e-01	1.9128e+00
8	TAO070136	201.6602	203.9829	202.8163	5.4522e-01	1.9118e+00
9	TAO080136	242.7077	244.0134	243.4490	3.1282e-01	1.9202e+00
10	TAO090136	253.3026	254.7911	254.1455	3.1654e-01	1.9227e+00
11	TAO100136	247.8857	249.6615	248.6241	3.9999e-01	1.9214e+00
12	TAO105136	254.1530	255.7400	255.0176	3.8819e-01	1.9229e+00
13	TAO110136	99.3815	100.2106	99.8762	1.6248e-01	1.9006e+00
14	TAO115136	259.3122	260.7074	260.0029	3.4389e-01	1.9242e+00
15	TAO120136	282.2043	283.2130	282.7047	2.1954e-01	1.9302e+00
16	TAO125136	262.8216	270.2076	267.4461	1.7427e+00	1.9261e+00
17	TAO130136	271.8309	275.1039	272.9013	5.5249e-01	1.9275e+00
18	TAO120048	122.0346	123.2613	122.7115	2.7831e-01	1.9019e+00
19	TAO130048	290.2919	291.7476	290.8879	3.2482e-01	1.9326e+00
20	TAO120224	278.0009	279.5630	278.9072	3.3458e-01	1.9292e+00
21	TAO130224	259.9493	261.4234	260.6933	3.2956e-01	1.9243e+00
22	TAO120312	277.2562	279.5557	278.4542	5.0825e-01	1.9291e+00
23	TAO130312	285.1562	286.8923	285.9449	3.3425e-01	1.9312e+00
24	TRT020000	209.2535	210.5036	209.9863	2.9320e-01	1.9132e+00
25	TRT070000	260.6906	262.2807	261.3657	3.1401e-01	1.9245e+00
26	TRT100000	288.0251	289.3020	288.7570	2.8510e-01	1.9320e+00
27	TRT120000	459.7141	460.1415	459.9620	9.6540e-02	1.9998e+00
28	TRT125000	105.0662	105.8928	105.4896	1.9470e-01	1.9008e+00
29	TRT130000	289.3101	292.6787	291.1039	8.9522e-01	1.9327e+00
30	EMPTY	39.3761	40.2940	39.7388	2.2759e-01	1.9011e+00
31	TAF050136	138.0742	141.8907	139.7967	8.4380e-01	1.9033e+00
32	TAF070136	160.5000	162.7689	161.5946	5.8025e-01	1.9056e+00
33	TAF080136	247.8632	251.8533	250.1627	8.5339e-01	1.9217e+00
34	TAF090136	99.4424	100.4824	99.9769	2.4579e-01	1.9006e+00
35	TAF100136	191.9590	193.4170	192.8161	3.3249e-01	1.9101e+00
36	TAF105136	197.2557	198.7941	198.1505	3.3113e-01	1.9110e+00
37	TAF110136	204.4795	205.6315	204.9816	2.9555e-01	1.9122e+00
38	TAF115136	210.3155	211.6542	210.9867	3.6331e-01	1.9133e+00
39	TAF120136	251.0408	253.2692	252.2350	4.6763e-01	1.9222e+00
40	TAF125136	222.0627	225.5508	223.4285	5.4347e-01	1.9158e+00
41	TAF130136	230.5607	237.9043	232.6494	1.2561e+00	1.9177e+00
42	TAF120048	251.2418	262.8572	256.1557	2.7414e+00	1.9232e+00
43	TAF130048	266.7408	267.5740	267.1204	1.7668e-01	1.9260e+00
44	TAF120224	211.3344	213.5327	212.5605	4.7022e-01	1.9136e+00
45	TAF130224	218.9826	220.3246	219.6517	2.8929e-01	1.9150e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1170	1.8719e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9775	1.4579e-01	1.9011e+00
48	TAI130048	274.5390	275.8285	275.3332	2.9167e-01	1.9282e+00
49	TAI130136	280.3165	281.6909	280.9894	2.8943e-01	1.9298e+00
50	TAI130224	279.5630	282.1394	281.1886	4.2666e-01	1.9298e+00
51	TAI130312	266.6926	268.3600	267.5655	3.9303e-01	1.9261e+00
52	TRR130000	145.5906	147.4910	146.6895	3.9024e-01	1.9040e+00
53	TSI000001	59.4203	60.0661	59.8055	1.6964e-01	1.9001e+00
54	TSI000002	89.3910	91.2756	90.2103	4.0366e-01	1.9003e+00
55	TSO000001	56.6654	57.6385	57.1174	2.0571e-01	1.9001e+00
56	TSO000002	76.8314	77.7862	77.2200	2.1912e-01	1.9000e+00
57	TAF020136	103.6693	106.8999	105.2268	8.4360e-01	1.9008e+00
58	TAF120312	233.9556	237.8245	235.9402	8.1852e-01	1.9185e+00
59	TAF130312	250.4352	252.6734	251.5559	5.4973e-01	1.9221e+00
60	EMPTY	4.2676	4.2969	4.2841	6.2304e-03	0.0000e+00
61	EMPTY	4.2529	4.2725	4.2617	4.8327e-03	0.0000e+00
62	EMPTY	4.2334	4.2480	4.2399	4.5858e-03	0.0000e+00
63	EMPTY	4.2236	4.2383	4.2287	4.4072e-03	0.0000e+00
64	EMPTY	2.0313	2.0361	2.0327	2.2603e-03	0.0000e+00
65	EMPTY	2.0410	2.0508	2.0456	1.8216e-03	0.0000e+00
66	EMPTY	2.0508	2.0703	2.0527	3.5568e-03	0.0000e+00
67	EMPTY	2.0605	2.0654	2.0625	2.4164e-03	0.0000e+00
68	EMPTY	2.0654	2.0703	2.0675	2.4344e-03	0.0000e+00
69	EMPTY	2.0752	2.0801	2.0768	2.3008e-03	0.0000e+00
70	EMPTY	2.0801	2.0898	2.0845	1.7784e-03	0.0000e+00
71	EMPTY	2.0850	2.0996	2.0983	2.7568e-03	0.0000e+00
72	EMPTY	2.0996	2.1094	2.1040	2.0337e-03	0.0000e+00
73	EMPTY	2.1143	2.1191	2.1144	6.9053e-04	0.0000e+00
74	EMPTY	2.1191	2.1240	2.1225	2.3008e-03	0.0000e+00
75	EMPTY	2.1289	2.1338	2.1319	2.3941e-03	0.0000e+00
76	EMPTY	2.1338	2.1387	2.1383	1.3381e-03	0.0000e+00
77	EMPTY	2.1484	2.1484	2.1484	0.0000e+00	0.0000e+00
78	EMPTY	2.1582	2.1631	2.1630	6.9053e-04	0.0000e+00
79	EMPTY	2.1777	2.1826	2.1780	1.1714e-03	0.0000e+00
80	PAN020136	-18.9883	2.8318	-9.1021	4.8690e+00	8.7030e-01
81	PAN050136	-26.0494	-5.4501	-16.0641	4.6652e+00	1.6805e+00
82	PAN070136	-24.5781	-5.1994	-14.9940	5.0693e+00	8.7081e-01
83	PAN080136	-10.2937	16.4092	4.0862	5.9450e+00	8.7006e-01
84	PAN090136	-13.1753	9.5603	-2.3186	6.3564e+00	8.7002e-01
85	PAN100136	1.3896	36.0270	12.3851	8.6116e+00	8.7055e-01
86	PAN105136	-4.1162	6.1835	0.6858	2.2135e+00	8.7000e-01
87	PAN110136	-4.0941	5.4426	0.2455	2.2698e+00	8.7000e-01
88	PAN115136	0.4512	7.6991	3.5625	1.7092e+00	8.7005e-01
89	PAN120136	0.6523	3.0937	1.5770	5.0411e-01	8.7001e-01
90	PAN125136	1.5971	3.1993	2.3341	3.4245e-01	8.7002e-01
91	PAN130136	-4.9304	4.2249	2.9630	1.7607e+00	8.7003e-01
92	PAN120048	-4.3237	-1.7297	-3.2098	5.0231e-01	8.7004e-01
93	PAN130048	31.9145	38.9336	35.2196	1.6045e+00	8.7444e-01
94	PAN120224	1.2149	8.3866	4.0332	1.6929e+00	8.7006e-01
95	PAN130224	3.5083	6.6363	5.0860	6.0888e-01	8.7009e-01
96	PAN120312	17.0974	21.9802	19.0764	1.0836e+00	8.7131e-01
97	PAN130312	5.5754	7.7880	6.6176	5.4943e-01	8.7016e-01
98	PAB000136	39.7703	40.5027	40.1173	1.8475e-01	5.8861e-01
99	PAB100136	40.7343	41.1005	40.8734	7.8995e-02	5.8893e-01
100	PAB125136	40.5001	40.8205	40.6429	6.2479e-02	5.8883e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.2263	40.6911	39.9514	3.3671e-01	7.5662e-01
102	PRV0000001	19.5965	19.8406	19.7235	3.4527e-02	7.5162e-01
103	PSR0000001	39.5665	39.8107	39.6764	5.0842e-02	7.5653e-01
104	PFM0000001	14.8245	15.2822	15.1010	1.1173e-01	5.0142e-01
105	PAN000136	-32.9146	2.7910	-15.2907	6.4963e+00	4.9201e+00
106	PFM0000002	14.9169	15.2525	15.1193	7.8368e-02	2.0354e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-0.5322	-5.0618	2.9129e+00	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	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	177.4151	178.0011	177.7120	1.2627e-01	1.3390e+00
113	VPW0000002	207.5233	207.9139	207.7187	7.8918e-02	1.4864e+00
114	VPW0000003	256.8021	257.1927	256.9896	1.0410e-01	1.7417e+00
115	VPW0000004	182.5984	182.9890	182.7743	9.8648e-02	1.3634e+00
116	VPW0000005	243.1678	244.5350	243.8476	3.6856e-01	1.6723e+00
117	VPW0000006	258.4172	258.8079	258.6358	1.0907e-01	1.7505e+00
118	IPW0000001	939.8282	945.6852	942.7178	1.3224e+00	1.1003e+01
119	IPW0000002	2215.5164	2219.4189	2217.3901	1.4192e+00	1.9299e+01
120	IPW0000003	2261.9998	2265.8999	2263.2876	1.1561e+00	1.9629e+01
121	IPW0000004	650.7004	652.1653	651.5796	3.6911e-01	5.5224e+00
122	IPW0000005	431.2782	434.2076	432.6842	6.4410e-01	3.9603e+00
123	IPW0000006	447.7915	449.7446	448.8166	3.7239e-01	4.0708e+00
124	EMPTY	-0.0293	-0.0098	-0.0178	3.7899e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0124	2.8266e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0138	3.6500e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	2.8266e-03	0.0000e+00
128	IHT0000001	219.5387	221.6872	220.7497	5.5943e-01	4.6565e+00
129	IHT0000002	225.9315	228.2752	227.2441	5.6914e-01	4.6876e+00
130	IHT0000003	228.0123	230.1608	229.2897	5.1024e-01	4.6976e+00
131	IHT0000004	223.9596	226.4986	225.1706	5.3525e-01	4.6776e+00
132	IHT0000005	221.4543	223.7981	222.7706	5.0503e-01	4.6661e+00
133	IHT0000006	215.5987	217.7471	216.8213	4.8937e-01	4.6380e+00
134	IHT0000007	224.7446	227.4790	226.3343	5.0841e-01	4.6832e+00
135	IHT0000008	222.1529	224.6920	223.7624	5.2283e-01	4.6709e+00
136	IHT0000009	222.1417	225.2667	223.8955	5.7384e-01	4.6715e+00
137	IHT0000010	54.4283	56.5768	55.5299	5.0649e-01	4.1374e+00
138	IHT0000011	223.2760	225.6197	224.3463	5.2384e-01	4.6737e+00
139	IHT0000012	219.3284	221.4769	220.3792	4.9895e-01	4.6547e+00
140	IHT0000013	158.9844	160.9375	159.8203	4.5684e-01	4.4005e+00
141	IHT0000014	219.7491	222.2882	220.9873	5.8475e-01	4.6576e+00
142	IHT0000015	163.9573	165.7151	164.8910	4.7234e-01	4.4192e+00
143	IHT0000016	152.3888	154.7326	153.5997	5.3670e-01	4.3783e+00
144	IHT0000017	183.1956	185.3441	184.2816	5.6519e-01	4.4951e+00
145	IHT0000018	184.5027	187.2371	185.8973	5.6636e-01	4.5018e+00
146	IHT0000019	178.8687	181.0171	179.9937	5.7529e-01	4.4777e+00
147	IHT0000020	183.9318	186.0802	185.1661	5.3005e-01	4.4987e+00
148	IHT0000021	-3.2039	-0.2742	-1.4851	6.6380e-01	4.1000e+00
149	IHT0000022	158.4848	160.4379	159.6723	5.2916e-01	4.3999e+00
150	IHT0000023	180.3411	182.6848	181.2823	5.3770e-01	4.4829e+00
151	IHT0000024	144.7679	147.1116	145.7133	4.9183e-01	4.3512e+00
152	IHT0000025	179.3532	181.6970	180.5797	5.3676e-01	4.4801e+00
153	IHT0000026	181.6932	183.8417	182.8026	5.5725e-01	4.4891e+00
154	IHT0000027	155.0331	157.3768	156.1737	5.8041e-01	4.3874e+00
155	IHT0000028	157.3505	160.2802	158.7334	6.0982e-01	4.3965e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.5965	183.5262	182.0575	6.0004e-01	4.4860e+00
157	IHT000030	184.1609	186.7000	185.4930	5.3770e-01	4.5001e+00
158	IHT000031	181.6181	183.7665	182.7353	5.1151e-01	4.4888e+00
159	IHT000032	183.6951	186.2342	185.0155	5.7394e-01	4.4981e+00
160	IHT000033	183.7177	186.2568	184.9795	5.5833e-01	4.4980e+00
161	IHT000034	161.5159	163.6644	162.5277	4.1888e-01	4.4104e+00
162	IHT000035	213.1761	215.5199	214.3479	5.5102e-01	4.6265e+00
163	IHT000036	159.7919	161.7450	160.5771	4.4554e-01	4.4032e+00

Velocity 1 = 0.022100 (ft/sec)
 Velocity 2 = 0.023900 (ft/sec)
 Pressure Drop = 0.030800 (psi)
 Tsat in = 0.084290 (deg F) Tsat out = 0.096802 (deg F)
 hni inner = 1.005402 (kBtu/hr-ft2) Phi outer = 0.440491 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0423	0.0498
1	TRF000002	0.0421	0.0494
2	TFM000001	0.0461	0.0530
3	TIN000001	0.0462	0.0535
4	TRV000001	0.1127	0.1277
5	TSR000001	1.4012	0.8619
6	TAO020136	0.3168	0.2117
7	TAO050136	0.2367	0.1138
8	TAO070136	0.0619	0.0305
9	TAO080136	0.2013	0.0826
10	TAO090136	0.3273	0.1286
11	TAO100136	0.1156	0.0465
12	TAO105136	0.0821	0.0322
13	TAO110136	1.8101	1.8458
14	TAO115136	0.1895	0.0728
15	TAO120136	0.0402	0.0142
16	TAO125136	0.3360	0.1258
17	TAO130136	0.0689	0.0252
18	TAO120048	1.6014	1.3223
19	TAO130048	0.6690	0.2294
20	TAO120224	0.3268	0.1170
21	TAO130224	0.1323	0.0507
22	TAO120312	0.1250	0.0449
23	TAO130312	0.0000	0.0000
24	TRT020000	0.0653	0.0311
25	TRT070000	0.0525	0.0201
26	TRT100000	0.2589	0.0897
27	TRT120000	0.0001	0.0000
28	TRT125000	3.1179	3.0457
29	TRT130000	0.4844	0.1667
30	EMPTY	0.0734	0.1844
31	TAF050136	0.1164	0.0832
32	TAF070136	0.0633	0.0392
33	TAF080136	0.0814	0.0325
34	TAF090136	1.6001	1.6265
35	TAF100136	0.1048	0.0543
36	TAF105136	0.0536	0.0270
37	TAF110136	0.1149	0.0560
38	TAF115136	0.0420	0.0199
39	TAF120136	0.0148	0.0059
40	TAF125136	0.1431	0.0640
41	TAF130136	0.3844	0.1650
42	TAF120048	1.0153	0.3979
43	TAF130048	0.1293	0.0484
44	TAF120224	0.2446	0.1149
45	TAF130224	0.1647	0.0749

#	Name	Abs Diff	%Diff
46	EMPTY	0.0000	0.0000
47	EMPTY	0.0092	0.0230
48	TAI130048	0.1692	0.0614
49	TAI130136	0.0585	0.0208
50	TAI130224	0.3644	0.1298
51	TAI130312	0.2409	0.0901
52	TRR130000	0.3115	0.2119
53	TSI000001	0.1242	0.2072
54	TSI000002	0.2759	0.3049
55	TSO000001	0.0691	0.1208
56	TSO000002	0.0804	0.1040
57	TAF020136	0.2126	0.2016
58	TAF120312	0.2417	0.1025
59	TAF130312	0.0597	0.0237
60	EMPTY	0.0024	0.0561
61	EMPTY	0.0018	0.0423
62	EMPTY	0.0015	0.0354
63	EMPTY	0.0005	0.0118
64	EMPTY	0.0007	0.0344
65	EMPTY	0.0005	0.0244
66	EMPTY	0.0022	0.1071
67	EMPTY	0.0026	0.1259
68	EMPTY	0.0023	0.1111
69	EMPTY	0.0032	0.1538
70	EMPTY	0.0014	0.0671
71	EMPTY	0.0020	0.0952
72	EMPTY	0.0020	0.0950
73	EMPTY	0.0024	0.1134
74	EMPTY	0.0018	0.0847
75	EMPTY	0.0027	0.1265
76	EMPTY	0.0023	0.1074
77	EMPTY	0.0037	0.1719
78	EMPTY	0.0035	0.1616
79	EMPTY	0.0044	0.2016
80	PAN020136	0.4318	4.9802
81	PAN050136	0.7751	4.6029
82	PAN070136	0.9934	6.2136
83	PAN080136	0.0153	0.3730
84	PAN090136	2.4383	2037.0090
85	PAN100136	3.3539	37.1368
86	PAN105136	1.1460	249.0222
87	PAN110136	1.9470	88.8027
88	PAN115136	0.5219	17.1644
89	PAN120136	0.1281	7.5128
90	PAN125136	0.1496	6.8483
91	PAN130136	0.5188	14.9003
92	PAN120048	0.7049	18.0065
93	PAN130048	0.7812	2.2684
94	PAN120224	0.0534	1.3418
95	PAN130224	0.2899	6.0445
96	PAN120312	0.5951	3.2200
97	PAN130312	0.2396	3.7567
98	PAB000136	0.0567	0.1411
99	PAB100136	0.0916	0.2236
100	PAB125136	0.0660	0.1621

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dif

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	Name	Abs Diff	%Diff
101	PIN000001	0.1221	0.3066
102	PRV000001	0.0098	0.0497
103	PSR000001	0.0757	0.1904
104	PFM000001	0.0678	0.4510
105	PAN000136	0.8515	5.2750
106	PFM000002	0.0732	0.4865
107	EMPTY	0.0000	0.0000
108	EMPTY	2.6866	34.6730
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	200.0000
112	VPW000001	0.0274	0.0154
113	VPW000002	0.0273	0.0131
114	VPW000003	0.0547	0.0213
115	VPW000004	0.0039	0.0021
116	VPW000005	0.3359	0.1379
117	VPW000006	0.0274	0.0106
118	IPW000001	1.7962	0.1902
119	IPW000002	5.3076	0.2399
120	IPW000003	7.0596	0.3129
121	IPW000004	0.0488	0.0075
122	IPW000005	1.5233	0.3533
123	IPW000006	1.5820	0.3537
124	EMPTY	0.0009	4.8128
125	EMPTY	0.0004	3.3333
126	EMPTY	0.0001	0.7194
127	EMPTY	0.0000	0.0000
128	IHT000001	0.0391	0.0177
129	IHT000002	0.0195	0.0086
130	IHT000003	0.0664	0.0289
131	IHT000004	0.0742	0.0329
132	IHT000005	0.1523	0.0683
133	IHT000006	0.1719	0.0792
134	IHT000007	0.1914	0.0845
135	IHT000008	0.1914	0.0855
136	IHT000009	0.1836	0.0819
137	IHT000010	0.2774	0.5021
138	IHT000011	0.2460	0.1098
139	IHT000012	0.2227	0.1012
140	IHT000013	0.2617	0.1640
141	IHT000014	0.5429	0.2463
142	IHT000015	0.2422	0.1471
143	IHT000016	0.2891	0.1886
144	IHT000017	0.2227	0.1210
145	IHT000018	0.0468	0.0252
146	IHT000019	0.0430	0.0239
147	IHT000020	0.1328	0.0718
148	IHT000021	0.2110	12.4403
149	IHT000022	0.2773	0.1740
150	IHT000023	0.1562	0.0862
151	IHT000024	0.0977	0.0671
152	IHT000025	0.1523	0.0844
153	IHT000026	0.1445	0.0791
154	IHT000027	0.1640	0.1051
155	IHT000028	0.0937	0.0590

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0898	0.0493
157	IHT000030	0.0547	0.0295
158	IHT000031	0.0859	0.0470
159	IHT000032	0.0743	0.0401
160	IHT000033	0.0273	0.0148
161	IHT000034	0.0547	0.0336
162	IHT000035	0.2421	0.1131
163	IHT000036	0.0742	0.0462

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sum1

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Velocity 1 = 10.1394 (ft/sec) (+/- 2.3101 %)

Velocity 2 = 10.1428 (ft/sec) (+/- 1.7674 %)

Pressure drop = -0.9369 (psi)

Tsats in = 267.3824 (deg F) Tsats out = 268.6515 (deg F)

Phi inner = 299.2100 (kBtu/hr-ft2) (+/- 1.2356 %)

Phi outer = 299.1498 (kBtu/hr-ft2) (+/- 1.2638 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.6700	85.5161	85.1143	1.8752e-01	1.9002e+00
1	TRF000002	84.9996	85.6309	85.2647	1.4611e-01	1.9002e+00
2	TFM000001	86.2926	87.1341	86.7348	2.0692e-01	1.9002e+00
3	TIN000001	85.8399	86.4727	86.0808	1.2060e-01	1.9002e+00
4	TRV000001	87.5529	88.4965	87.9644	2.2463e-01	1.9002e+00
5	TSR000001	155.8578	161.9923	158.2862	1.7381e+00	1.9052e+00
6	TAO020136	151.4028	153.5053	152.5326	5.0790e-01	1.9046e+00
7	TAO050136	208.2191	210.3185	208.9845	4.8217e-01	1.9130e+00
8	TAO070136	203.2091	205.8199	204.1651	6.0143e-01	1.9121e+00
9	TAO080136	244.3880	245.6915	245.1361	2.6831e-01	1.9206e+00
10	TAO090136	254.6041	256.2792	255.4234	3.6731e-01	1.9230e+00
11	TAO100136	248.9137	250.9675	250.0116	4.0740e-01	1.9217e+00
12	TAO105136	255.9262	257.7913	256.8590	4.1352e-01	1.9234e+00
13	TAO110136	102.7781	103.5013	103.1376	1.7748e-01	1.9007e+00
14	TAO115136	260.7998	262.2871	261.6066	3.5690e-01	1.9246e+00
15	TAO120136	283.9455	284.9556	284.4231	2.7111e-01	1.9307e+00
16	TAO125136	258.3747	259.7659	259.0796	3.9484e-01	1.9239e+00
17	TAO130136	272.1945	273.2919	272.7295	2.2697e-01	1.9275e+00
18	TAO120048	124.0757	125.0957	124.5658	2.6067e-01	1.9020e+00
19	TAO130048	290.8389	291.5675	291.2355	1.7541e-01	1.9327e+00
20	TAO120224	280.5712	282.3148	281.1449	3.3608e-01	1.9298e+00
21	TAO130224	263.4444	265.1888	264.1607	3.6131e-01	1.9252e+00
22	TAO120312	278.1766	279.3727	278.7248	2.8367e-01	1.9291e+00
23	TAO130312	284.3345	285.3410	284.8258	2.5044e-01	1.9308e+00
24	TRT020000	204.8224	206.5584	205.5711	3.4934e-01	1.9123e+00
25	TRT070000	252.1565	253.5656	252.7843	3.1957e-01	1.9224e+00
26	TRT100000	281.8154	283.0983	282.5012	3.1224e-01	1.9302e+00
27	TRT120000	459.7993	460.2272	460.0013	1.0183e-01	1.9998e+00
28	TRT125000	107.1220	107.9472	107.4815	1.8535e-01	1.9009e+00
29	TRT130000	288.3073	290.2211	289.3103	3.3055e-01	1.9321e+00
30	EMPTY	39.3761	40.2940	39.8122	2.1373e-01	1.9011e+00
31	TAF050136	138.2767	141.3891	139.6346	6.9621e-01	1.9033e+00
32	TAF070136	160.0054	163.0633	161.6719	7.2328e-01	1.9057e+00
33	TAF080136	249.2545	253.3327	251.3035	9.9158e-01	1.9220e+00
34	TAF090136	102.2440	103.2814	102.7297	2.6628e-01	1.9007e+00
35	TAF100136	192.4449	194.2907	193.3971	4.4580e-01	1.9102e+00
36	TAF105136	197.6442	199.5597	198.6015	4.0955e-01	1.9111e+00
37	TAF110136	204.8643	206.1101	205.5627	3.0091e-01	1.9123e+00
38	TAF115136	210.7939	212.8963	211.6654	4.5648e-01	1.9135e+00
39	TAF120136	252.7104	254.6615	253.7778	4.2331e-01	1.9226e+00
40	TAF125136	221.7837	223.7646	222.8616	4.1037e-01	1.9157e+00
41	TAF130136	226.4988	228.2971	227.2979	3.9103e-01	1.9166e+00
42	TAF120048	231.8578	233.6637	232.5044	4.5080e-01	1.9177e+00
43	TAF130048	257.9348	261.3711	259.8967	8.2619e-01	1.9241e+00
44	TAF120224	212.0986	214.1066	212.9679	4.6865e-01	1.9137e+00
45	TAF130224	219.6537	221.0894	220.5921	2.7207e-01	1.9152e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1308	2.1332e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9821	1.1126e-01	1.9011e+00
48	TAI130048	274.4474	275.7363	275.0958	3.1690e-01	1.9281e+00
49	TAI130136	279.4001	280.6849	280.1199	2.7290e-01	1.9295e+00
50	TAI130224	278.4576	280.2079	279.2535	4.4267e-01	1.9293e+00
51	TAI130312	270.0251	271.5976	270.7650	3.6702e-01	1.9270e+00
52	TRR130000	145.2916	147.1924	146.2363	5.1622e-01	1.9039e+00
53	TSI000001	59.4203	60.1724	59.7994	1.7386e-01	1.9001e+00
54	TSI000002	87.2981	89.0794	88.1363	4.7232e-01	1.9002e+00
55	TSO000001	56.6649	57.4221	57.0891	1.8657e-01	1.9001e+00
56	TSO000002	76.3014	77.1507	76.7603	2.1372e-01	1.9000e+00
57	TAF020136	103.2523	106.5874	104.9995	8.4143e-01	1.9008e+00
58	TAF120312	222.0083	224.9559	223.5795	5.5621e-01	1.9158e+00
59	TAF130312	243.7985	245.8595	244.7576	4.2293e-01	1.9205e+00
60	EMPTY	4.1016	4.1162	4.1094	4.5206e-03	0.0000e+00
61	EMPTY	4.0771	4.0967	4.0889	4.0673e-03	0.0000e+00
62	EMPTY	4.0576	4.0771	4.0692	3.4016e-03	0.0000e+00
63	EMPTY	4.0576	4.0674	4.0607	3.2359e-03	0.0000e+00
64	EMPTY	1.9531	1.9629	1.9573	2.2080e-03	0.0000e+00
65	EMPTY	1.9678	1.9727	1.9706	2.4344e-03	0.0000e+00
66	EMPTY	1.9775	1.9824	1.9780	1.4797e-03	0.0000e+00
67	EMPTY	1.9873	2.0020	1.9892	2.9413e-03	0.0000e+00
68	EMPTY	1.9922	1.9971	1.9946	2.4662e-03	0.0000e+00
69	EMPTY	2.0020	2.0068	2.0049	2.4164e-03	0.0000e+00
70	EMPTY	2.0068	2.0166	2.0118	1.2041e-03	0.0000e+00
71	EMPTY	2.0215	2.0313	2.0266	1.3811e-03	0.0000e+00
72	EMPTY	2.0313	2.0361	2.0326	2.2146e-03	0.0000e+00
73	EMPTY	2.0361	2.0459	2.0449	2.2058e-03	0.0000e+00
74	EMPTY	2.0508	2.0557	2.0525	2.3675e-03	0.0000e+00
75	EMPTY	2.0605	2.0654	2.0628	2.4583e-03	0.0000e+00
76	EMPTY	2.0654	2.0703	2.0691	2.1065e-03	0.0000e+00
77	EMPTY	2.0752	2.0850	2.0808	1.9754e-03	0.0000e+00
78	EMPTY	2.0947	2.0996	2.0950	1.1714e-03	0.0000e+00
79	EMPTY	2.1094	2.1143	2.1113	2.4164e-03	0.0000e+00
80	PAN020136	-19.7512	-2.5851	-9.6804	3.6245e+00	8.7034e-01
81	PAN050136	-27.4227	-7.8915	-17.2299	4.9310e+00	1.6806e+00
82	PAN070136	-24.6544	-7.6408	-17.4019	5.3269e+00	8.7109e-01
83	PAN080136	-8.4626	14.0441	5.2627	5.3241e+00	8.7010e-01
84	PAN090136	-13.1753	12.5358	-3.3547	6.5069e+00	8.7004e-01
85	PAN100136	2.5340	50.2940	12.7116	9.0174e+00	8.7058e-01
86	PAN105136	-4.5739	5.1154	0.7010	2.2896e+00	8.7000e-01
87	PAN110136	-4.6282	3.6879	-0.3725	2.2460e+00	8.7000e-01
88	PAN115136	-0.9221	6.3258	2.4059	1.3820e+00	8.7002e-01
89	PAN120136	-1.1025	2.1019	0.4234	7.0009e-01	8.7000e-01
90	PAN125136	0.9104	2.5889	1.7680	3.8490e-01	8.7001e-01
91	PAN130136	1.2495	2.9279	2.0673	3.8101e-01	8.7002e-01
92	PAN120048	-4.3237	-2.3400	-3.6431	4.8101e-01	8.7005e-01
93	PAN130048	8.9501	11.2389	10.1891	5.1574e-01	8.7037e-01
94	PAN120224	-1.2265	10.6754	3.0902	2.6019e+00	8.7003e-01
95	PAN130224	-0.5353	2.2876	0.9799	5.5725e-01	8.7000e-01
96	PAN120312	3.5933	6.5688	4.9605	6.6509e-01	8.7009e-01
97	PAN130312	1.0741	2.9051	1.9087	4.3906e-01	8.7001e-01
98	PAB000136	39.6330	40.4570	40.0092	1.9581e-01	5.8856e-01
99	PAB100136	40.7800	41.1920	40.9467	1.0205e-01	5.8896e-01
100	PAB125136	40.6832	41.0494	40.8691	7.3644e-02	5.8893e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9821	40.3249	39.6755	4.3383e-01	7.5653e-01
102	PRV000001	19.5965	19.7186	19.7064	3.6993e-02	7.5162e-01
103	PSR000001	40.2990	40.5431	40.3722	7.3986e-02	7.5676e-01
104	PFM000001	15.4653	16.0147	15.6796	1.2628e-01	5.0153e-01
105	PAN000136	-33.8301	-12.7730	-25.9383	5.5755e+00	4.9204e+00
106	PFM000002	15.5713	15.9405	15.6901	8.0711e-02	2.0381e-01
107	EMPTY	0.0000	0.0098	0.0049	9.8648e-04	0.0000e+00
108	EMPTY	-7.1143	-0.8838	-4.7468	1.4059e+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	177.4151	178.0011	177.6573	1.2823e-01	1.3388e+00
113	VPW000002	207.5233	207.9139	207.7148	1.0052e-01	1.4864e+00
114	VPW000003	256.8021	257.1927	256.9857	1.1443e-01	1.7417e+00
115	VPW000004	182.4031	182.9890	182.6805	1.2534e-01	1.3629e+00
116	VPW000005	243.1678	244.9256	243.8359	4.3061e-01	1.6723e+00
117	VPW000006	258.2219	259.0032	258.6593	1.5565e-01	1.7506e+00
118	IPW000001	939.8282	951.5423	945.1385	3.4168e+00	1.1016e+01
119	IPW000002	2205.7600	2213.5652	2208.3357	1.5490e+00	1.9235e+01
120	IPW000003	2250.2998	2258.0999	2254.0044	2.5608e+00	1.9562e+01
121	IPW000004	652.1653	653.6301	652.7417	3.0708e-01	5.5309e+00
122	IPW000005	430.7900	434.2076	432.0398	9.3138e-01	3.9559e+00
123	IPW000006	444.8618	447.7915	446.7951	8.0723e-01	4.0569e+00
124	EMPTY	-0.0244	-0.0098	-0.0186	3.6911e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0124	2.9938e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0148	3.4116e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0171	3.3087e-03	0.0000e+00
128	IHT000001	219.5387	222.6637	220.9997	6.8030e-01	4.6577e+00
129	IHT000002	225.7362	229.0565	227.4159	6.6028e-01	4.6885e+00
130	IHT000003	227.8170	231.1373	229.4147	6.9440e-01	4.6982e+00
131	IHT000004	223.5690	226.8893	225.2096	7.3927e-01	4.6778e+00
132	IHT000005	221.4543	224.9699	222.8136	7.2433e-01	4.6663e+00
133	IHT000006	215.5987	218.7237	216.9229	7.2468e-01	4.6385e+00
134	IHT000007	225.1352	228.0649	226.4281	6.7530e-01	4.6837e+00
135	IHT000008	222.3483	225.0826	223.8561	6.0495e-01	4.6713e+00
136	IHT000009	222.3370	225.0714	224.0166	6.2390e-01	4.6721e+00
137	IHT000010	54.2330	56.7721	55.5767	6.0314e-01	4.1375e+00
138	IHT000011	222.8853	226.0103	224.4323	6.6713e-01	4.6741e+00
139	IHT000012	218.9378	222.2581	220.4339	7.0101e-01	4.6550e+00
140	IHT000013	158.3984	161.7188	159.7930	6.6264e-01	4.4004e+00
141	IHT000014	219.1632	222.8741	221.0381	7.5593e-01	4.6579e+00
142	IHT000015	163.3714	166.4964	164.8715	6.1566e-01	4.4191e+00
143	IHT000016	152.1935	155.1232	153.4669	5.4568e-01	4.3778e+00
144	IHT000017	182.6097	186.1253	184.2699	6.3534e-01	4.4951e+00
145	IHT000018	184.3074	187.6277	185.9598	6.5579e-01	4.5020e+00
146	IHT000019	179.0640	181.7984	180.2515	6.4094e-01	4.4787e+00
147	IHT000020	184.1271	186.6662	185.3341	6.0578e-01	4.4994e+00
148	IHT000021	-2.8132	0.3118	-1.3640	7.3831e-01	4.1000e+00
149	IHT000022	158.4848	161.0239	159.6997	5.7085e-01	4.4000e+00
150	IHT000023	180.3411	182.4895	181.3683	5.2320e-01	4.4832e+00
151	IHT000024	144.5726	147.1116	145.8461	5.2086e-01	4.3517e+00
152	IHT000025	179.3532	181.8923	180.7126	5.4954e-01	4.4806e+00
153	IHT000026	181.6932	184.0370	182.9784	5.3828e-01	4.4898e+00
154	IHT000027	155.0331	157.5721	156.2675	5.6143e-01	4.3877e+00
155	IHT000028	157.1552	160.0849	158.3935	6.5508e-01	4.3953e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.5965	183.3308	181.8192	6.5174e-01	4.4851e+00
157	IHT000030	183.9656	186.5047	185.2040	6.7383e-01	4.4989e+00
158	IHT000031	181.2275	183.5712	182.3564	6.5826e-01	4.4872e+00
159	IHT000032	183.3045	186.0389	184.7851	7.0043e-01	4.4972e+00
160	IHT000033	183.3271	185.8661	184.7295	6.9103e-01	4.4969e+00
161	IHT000034	161.3206	163.2737	162.3051	5.1593e-01	4.4096e+00
162	IHT000035	212.9808	216.1058	214.2073	7.0811e-01	4.6258e+00
163	IHT000036	159.2060	161.7450	160.3974	5.9353e-01	4.4026e+00

Velocity 1 = 10.1101 (ft/sec) (+/- 2.3166 %)

Velocity 2 = 10.1149 (ft/sec) (+/- 1.7684 %)

Pressure drop = -0.9256 (psi)

Tsats in = 267.6506 (deg F) Tsats out = 268.9187 (deg F)

Phi inner = 297.0255 (kBtu/hr-ft2) (+/- 1.2364 %)

Phi outer = 299.3751 (kBtu/hr-ft2) (+/- 1.2632 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.8816	85.5161	85.0973	1.6821e-01	1.9002e+00
1	TRF000002	85.2100	85.6309	85.3278	1.1376e-01	1.9002e+00
2	TFM000001	86.5039	87.2382	86.8963	1.7330e-01	1.9002e+00
3	TIN000001	85.9456	86.5777	86.2471	1.4118e-01	1.9002e+00
4	TRV000001	87.7625	88.8088	88.1797	2.2429e-01	1.9002e+00
5	TSR000001	155.8593	159.0281	157.1011	7.9977e-01	1.9051e+00
6	TAO020136	146.5870	149.1977	147.6944	6.0747e-01	1.9041e+00
7	TAO050136	208.5082	210.3202	209.4899	4.0613e-01	1.9131e+00
8	TAO070136	203.0159	205.5298	204.2829	5.4362e-01	1.9121e+00
9	TAO080136	244.4800	245.8777	245.1753	3.2230e-01	1.9206e+00
10	TAO090136	254.6989	256.1855	255.4810	3.5143e-01	1.9230e+00
11	TAO100136	249.3798	251.3396	250.2261	4.2417e-01	1.9218e+00
12	TAO105136	256.2991	258.2571	257.2746	4.4049e-01	1.9235e+00
13	TAO110136	101.2373	101.8570	101.6185	1.4807e-01	1.9007e+00
14	TAO115136	260.8928	262.2861	261.6307	3.3695e-01	1.9246e+00
15	TAO120136	284.0377	285.1389	284.6230	2.5469e-01	1.9308e+00
16	TAO125136	259.3031	260.2300	259.8047	2.1358e-01	1.9241e+00
17	TAO130136	272.4690	273.2919	272.9461	1.8522e-01	1.9275e+00
18	TAO120048	123.7706	124.8925	124.3802	3.0444e-01	1.9020e+00
19	TAO130048	291.2021	291.9311	291.5501	1.8379e-01	1.9328e+00
20	TAO120224	280.5636	282.0397	281.3448	3.4687e-01	1.9299e+00
21	TAO130224	263.7184	265.0053	264.2948	3.4438e-01	1.9253e+00
22	TAO120312	278.2686	280.1077	279.0798	3.6960e-01	1.9292e+00
23	TAO130312	284.5188	285.6146	284.9701	1.9572e-01	1.9309e+00
24	TRT020000	205.2083	206.7511	205.8852	3.6047e-01	1.9124e+00
25	TRT070000	252.2502	253.7534	253.0492	3.2342e-01	1.9224e+00
26	TRT100000	282.0906	283.7376	282.9273	3.3278e-01	1.9303e+00
27	TRT120000	459.8849	460.2272	460.0201	8.1213e-02	1.9999e+00
28	TRT125000	106.3015	107.0243	106.6004	1.7706e-01	1.9009e+00
29	TRT130000	288.2159	290.8588	289.5817	5.1556e-01	1.9322e+00
30	EMPTY	39.3761	40.0646	39.7617	2.0444e-01	1.9011e+00
31	TAF050136	138.6786	141.5896	139.7370	6.6744e-01	1.9033e+00
32	TAF070136	160.5000	163.4567	161.7410	6.8612e-01	1.9057e+00
33	TAF080136	249.6277	253.5198	251.4873	7.8317e-01	1.9221e+00
34	TAF090136	101.2072	102.3492	101.8073	2.6946e-01	1.9007e+00
35	TAF100136	192.7366	194.2899	193.5699	3.8353e-01	1.9103e+00
36	TAF105136	198.0249	199.6546	198.7682	4.0282e-01	1.9111e+00
37	TAF110136	205.1532	206.5906	205.7754	3.3333e-01	1.9124e+00
38	TAF115136	211.1756	212.6107	211.8814	3.0593e-01	1.9135e+00
39	TAF120136	253.1770	254.8464	254.0061	3.4485e-01	1.9227e+00
40	TAF125136	221.9698	223.9509	222.9014	3.5953e-01	1.9157e+00
41	TAF130136	226.9720	227.9190	227.5306	2.5793e-01	1.9166e+00
42	TAF120048	231.5720	233.8537	232.8370	4.9420e-01	1.9178e+00
43	TAF130048	256.6334	262.2971	260.0061	1.0295e+00	1.9242e+00
44	TAF120224	212.1949	214.5833	213.2182	4.8159e-01	1.9138e+00
45	TAF130224	220.2279	221.4722	220.7509	2.6457e-01	1.9152e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1170	2.2393e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	39.9958	1.1589e-01	1.9011e+00
48	TAI130048	274.6311	275.9217	275.3112	2.5963e-01	1.9282e+00
49	TAI130136	279.4925	280.9577	280.3636	2.9390e-01	1.9296e+00
50	TAI130224	278.0885	280.5761	279.4874	5.3670e-01	1.9293e+00
51	TAI130312	269.9333	272.2433	270.9517	4.5609e-01	1.9270e+00
52	TRR130000	148.1887	149.7855	148.8139	3.4145e-01	1.9042e+00
53	TSI000001	59.3139	60.2803	59.7587	1.8665e-01	1.9001e+00
54	TSI000002	89.4974	90.8576	90.1437	3.4827e-01	1.9003e+00
55	TSO000001	56.5566	57.5309	57.0738	2.1780e-01	1.9001e+00
56	TSO000002	76.4079	77.2572	76.7539	2.1308e-01	1.9000e+00
57	TAF020136	103.8772	106.4827	105.1557	6.5268e-01	1.9008e+00
58	TAF120312	222.7687	225.3359	223.8857	5.1354e-01	1.9159e+00
59	TAF130312	244.0792	245.9524	244.9429	4.1757e-01	1.9205e+00
60	EMPTY	4.1016	4.1211	4.1122	5.1910e-03	0.0000e+00
61	EMPTY	4.0869	4.1016	4.0920	4.0626e-03	0.0000e+00
62	EMPTY	4.0674	4.0820	4.0722	3.7551e-03	0.0000e+00
63	EMPTY	4.0576	4.0723	4.0639	3.2777e-03	0.0000e+00
64	EMPTY	1.9531	1.9629	1.9571	2.1364e-03	0.0000e+00
65	EMPTY	1.9678	1.9727	1.9702	2.4662e-03	0.0000e+00
66	EMPTY	1.9775	1.9824	1.9787	2.1065e-03	0.0000e+00
67	EMPTY	1.9873	1.9922	1.9894	2.4344e-03	0.0000e+00
68	EMPTY	1.9922	1.9971	1.9944	2.4583e-03	0.0000e+00
69	EMPTY	2.0020	2.0068	2.0045	2.4642e-03	0.0000e+00
70	EMPTY	2.0068	2.0166	2.0118	1.5566e-03	0.0000e+00
71	EMPTY	2.0215	2.0313	2.0267	1.5314e-03	0.0000e+00
72	EMPTY	2.0264	2.0361	2.0326	2.4244e-03	0.0000e+00
73	EMPTY	2.0410	2.0459	2.0442	2.3365e-03	0.0000e+00
74	EMPTY	2.0459	2.0605	2.0515	2.2080e-03	0.0000e+00
75	EMPTY	2.0605	2.0654	2.0619	2.2146e-03	0.0000e+00
76	EMPTY	2.0654	2.0703	2.0687	2.3365e-03	0.0000e+00
77	EMPTY	2.0801	2.0850	2.0802	6.9053e-04	0.0000e+00
78	EMPTY	2.0947	2.0996	2.0949	9.6655e-04	0.0000e+00
79	EMPTY	2.1094	2.1143	2.1096	9.6655e-04	0.0000e+00
80	PAN020136	-16.6232	0.2378	-8.5970	4.0564e+00	8.7027e-01
81	PAN050136	-27.8805	-8.3492	-18.2125	4.5590e+00	1.6806e+00
82	PAN070136	-24.5781	-2.3766	-15.7677	5.4019e+00	8.7089e-01
83	PAN080136	-10.2174	14.3493	2.9174	5.5915e+00	8.7003e-01
84	PAN090136	-13.1753	7.0426	-1.7403	6.2254e+00	8.7001e-01
85	PAN100136	3.2969	46.4793	10.6547	7.1506e+00	8.7041e-01
86	PAN105136	-4.4977	4.7339	0.9146	2.2006e+00	8.7000e-01
87	PAN110136	-5.8489	5.1375	-0.4213	2.2073e+00	8.7000e-01
88	PAN115136	-0.9984	5.6392	2.0778	1.4842e+00	8.7002e-01
89	PAN120136	-0.7210	2.7885	0.7438	6.6225e-01	8.7000e-01
90	PAN125136	0.5290	2.7415	1.7268	4.9761e-01	8.7001e-01
91	PAN130136	1.2495	2.6990	1.9437	3.3175e-01	8.7001e-01
92	PAN120048	-4.5525	-2.6452	-3.8705	3.8639e-01	8.7005e-01
93	PAN130048	8.4160	11.6966	10.0838	7.9497e-01	8.7037e-01
94	PAN120224	-0.1584	6.2503	2.2556	1.4547e+00	8.7002e-01
95	PAN130224	-0.3827	2.3639	0.7190	6.8693e-01	8.7000e-01
96	PAN120312	3.0593	6.7214	4.8629	7.6212e-01	8.7008e-01
97	PAN130312	0.9978	3.2103	2.0812	5.2339e-01	8.7002e-01
98	PAB000136	39.7703	40.6401	40.1896	2.0291e-01	5.8864e-01
99	PAB100136	40.9632	41.3294	41.1325	8.7370e-02	5.8905e-01
100	PAB125136	40.9121	41.1867	41.0522	7.4222e-02	5.8901e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2263	40.4470	39.7805	3.9475e-01	7.5656e-01
102	PRV000001	19.7186	19.8406	19.7259	2.9284e-02	7.5162e-01
103	PSR000001	40.4210	40.6652	40.5553	7.5006e-02	7.5682e-01
104	PFM000001	15.3738	15.9231	15.5880	1.4518e-01	5.0152e-01
105	PAN000136	-34.7457	-15.0618	-25.6270	5.9043e+00	4.9204e+00
106	PFM000002	15.4035	15.8062	15.6029	9.7291e-02	2.0377e-01
107	EMPTY	-0.0049	0.0049	0.0047	1.3811e-03	0.0000e+00
108	EMPTY	-9.2188	-1.2988	-5.5195	1.0863e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0042	1.7115e-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	177.4151	177.8057	177.6338	9.3710e-02	1.3387e+00
113	VPW000002	207.3280	207.9139	207.7109	1.2453e-01	1.4864e+00
114	VPW000003	256.8021	257.1927	256.9271	1.2944e-01	1.7414e+00
115	VPW000004	182.4031	182.9890	182.7391	1.0470e-01	1.3632e+00
116	VPW000005	242.5819	243.5584	243.0507	3.2299e-01	1.6682e+00
117	VPW000006	258.4172	259.0032	258.5968	1.5201e-01	1.7503e+00
118	IPW000001	961.3040	967.1610	963.0613	1.3230e+00	1.1113e+01
119	IPW000002	2186.2473	2197.9551	2194.6765	3.1399e+00	1.9137e+01
120	IPW000003	2234.7000	2238.5999	2236.2986	1.0925e+00	1.9435e+01
121	IPW000004	655.5833	657.0481	656.5698	3.7551e-01	5.5591e+00
122	IPW000005	430.3017	433.2311	431.7370	6.6469e-01	3.9539e+00
123	IPW000006	444.8618	446.3267	445.3889	3.8002e-01	4.0473e+00
124	EMPTY	-0.0244	-0.0146	-0.0192	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	-0.0148	3.6858e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	3.4513e-03	0.0000e+00
128	IHT000001	219.3434	221.8825	220.9450	5.1448e-01	4.6574e+00
129	IHT000002	225.7362	228.4705	227.4042	5.1480e-01	4.6884e+00
130	IHT000003	227.8170	230.3561	229.3756	5.1522e-01	4.6980e+00
131	IHT000004	223.7643	226.3033	225.2487	5.4104e-01	4.6780e+00
132	IHT000005	221.4543	223.9934	222.9073	5.5826e-01	4.6668e+00
133	IHT000006	215.4034	218.1378	216.9463	5.4426e-01	4.6386e+00
134	IHT000007	224.7446	227.4790	226.3539	5.7258e-01	4.6833e+00
135	IHT000008	222.5436	225.2779	223.8210	5.4134e-01	4.6711e+00
136	IHT000009	222.7276	225.2667	223.9932	5.7891e-01	4.6720e+00
137	IHT000010	54.2330	56.5768	55.5064	5.5837e-01	4.1374e+00
138	IHT000011	223.2760	225.4244	224.3112	5.3851e-01	4.6735e+00
139	IHT000012	219.3284	221.2816	220.3284	5.2443e-01	4.6545e+00
140	IHT000013	158.9844	160.9375	159.7383	4.8329e-01	4.4002e+00
141	IHT000014	218.9679	221.3116	220.3037	5.3286e-01	4.6544e+00
142	IHT000015	163.9573	166.1058	164.8207	4.8019e-01	4.4189e+00
143	IHT000016	152.5841	154.5372	153.4122	4.7279e-01	4.3776e+00
144	IHT000017	182.6097	185.5394	184.0511	6.2377e-01	4.4942e+00
145	IHT000018	184.5027	186.8465	185.7723	5.9090e-01	4.5012e+00
146	IHT000019	179.2593	181.9937	180.3726	6.4144e-01	4.4792e+00
147	IHT000020	184.3224	186.6662	185.3419	6.0010e-01	4.4995e+00
148	IHT000021	-2.6179	0.5071	-1.3562	6.8141e-01	4.1000e+00
149	IHT000022	158.8754	161.4145	159.7934	5.3123e-01	4.4004e+00
150	IHT000023	180.5364	183.2708	181.4738	5.1750e-01	4.4837e+00
151	IHT000024	145.1585	147.5023	145.9047	5.3334e-01	4.3519e+00
152	IHT000025	179.9392	181.8923	180.7086	4.5747e-01	4.4806e+00
153	IHT000026	182.0838	184.2323	183.0019	5.4569e-01	4.4899e+00
154	IHT000027	155.2284	157.3768	156.1972	4.7835e-01	4.3875e+00
155	IHT000028	156.9599	159.4989	158.4052	6.6498e-01	4.3954e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.4012	183.3308	181.9091	6.8691e-01	4.4854e+00
157	IHT000030	183.7703	186.7000	185.2626	6.9448e-01	4.4991e+00
158	IHT000031	180.8368	183.9618	182.4501	7.1986e-01	4.4876e+00
159	IHT000032	183.3045	186.4295	184.9218	7.2442e-01	4.4977e+00
160	IHT000033	183.1318	186.4521	184.8623	7.1573e-01	4.4975e+00
161	IHT000034	160.9300	163.8597	162.4652	6.3012e-01	4.4102e+00
162	IHT000035	211.6136	215.1292	213.6761	7.2454e-01	4.6234e+00
163	IHT000036	159.2060	161.7450	160.4599	6.1141e-01	4.4028e+00

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Velocity 1 = 0.029300 (ft/sec)

Velocity 2 = 0.027901 (ft/sec)

Pressure Drop = 0.011300 (psi)

Tsat in = 0.268219 (deg F) Tsat out = 0.267212 (deg F)

Phi inner = 2.184479 (kBtu/hr-ft2) Phi outer = 0.225281 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0170	0.0200
1	TRF000002	0.0631	0.0740
2	TFM000001	0.1615	0.1862
3	TIN000001	0.1663	0.1932
4	TRV000001	0.2153	0.2448
5	TSR000001	1.1851	0.7487
6	TAO020136	4.8382	3.1719
7	TAO050136	0.5054	0.2418
8	TAO070136	0.1178	0.0577
9	TAO080136	0.0392	0.0160
10	TAO090136	0.0576	0.0226
11	TAO100136	0.2145	0.0858
12	TAO105136	0.4156	0.1618
13	TAO110136	1.5191	1.4729
14	TAO115136	0.0241	0.0092
15	TAO120136	0.1999	0.0703
16	TAO125136	0.7251	0.2799
17	TAO130136	0.2166	0.0794
18	TAO120048	0.1856	0.1490
19	TAO130048	0.3146	0.1080
20	TAO120224	0.1999	0.0711
21	TAO130224	0.1341	0.0508
22	TAO120312	0.3550	0.1274
23	TAO130312	0.1443	0.0507
24	TRT020000	0.3141	0.1528
25	TRT070000	0.2649	0.1048
26	TRT100000	0.4261	0.1508
27	TRT120000	0.0188	0.0041
28	TRT125000	0.8811	0.8198
29	TRT130000	0.2714	0.0938
30	EMPTY	0.0505	0.1268
31	TAF050136	0.1024	0.0733
32	TAF070136	0.0691	0.0427
33	TAF080136	0.1838	0.0731
34	TAF090136	0.9224	0.8979
35	TAF100136	0.1728	0.0894
36	TAF105136	0.1667	0.0839
37	TAF110136	0.2127	0.1035
38	TAF115136	0.2160	0.1020
39	TAF120136	0.2283	0.0900
40	TAF125136	0.0398	0.0179
41	TAF130136	0.2327	0.1024
42	TAF120048	0.3326	0.1431
43	TAF130048	0.1094	0.0421
44	TAF120224	0.2503	0.1175
45	TAF130224	0.1588	0.0720

#	Name	Abs Diff	%Diff
46	EMPTY	0.0138	0.0362
47	EMPTY	0.0137	0.0343
48	TAI130048	0.2154	0.0783
49	TAI130136	0.2437	0.0870
50	TAI130224	0.2339	0.0838
51	TAI130312	0.1867	0.0689
52	TRR130000	2.5776	1.7626
53	TSI000001	0.0407	0.0681
54	TSI000002	2.0074	2.2776
55	TSO000001	0.0153	0.0268
56	TSO000002	0.0064	0.0083
57	TAF020136	0.1562	0.1488
58	TAF120312	0.3062	0.1370
59	TAF130312	0.1853	0.0757
60	EMPTY	0.0028	0.0681
61	EMPTY	0.0031	0.0758
62	EMPTY	0.0030	0.0737
63	EMPTY	0.0032	0.0788
64	EMPTY	0.0002	0.0102
65	EMPTY	0.0004	0.0203
66	EMPTY	0.0007	0.0354
67	EMPTY	0.0002	0.0101
68	EMPTY	0.0002	0.0100
69	EMPTY	0.0004	0.0200
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0001	0.0049
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0007	0.0342
74	EMPTY	0.0010	0.0487
75	EMPTY	0.0009	0.0436
76	EMPTY	0.0004	0.0193
77	EMPTY	0.0006	0.0288
78	EMPTY	0.0001	0.0048
79	EMPTY	0.0017	0.0805
80	PAN020136	1.0834	11.1917
81	PAN050136	0.9826	5.7029
82	PAN070136	1.6342	9.3909
83	PAN080136	2.3453	44.5646
84	PAN090136	1.6144	48.1235
85	PAN100136	2.0569	16.1813
86	PAN105136	0.2136	30.4708
87	PAN110136	0.0488	13.1007
88	PAN115136	0.3281	13.6373
89	PAN120136	0.3204	75.6731
90	PAN125136	0.0412	2.3303
91	PAN130136	0.1236	5.9788
92	PAN120048	0.2274	6.2419
93	PAN130048	0.1053	1.0335
94	PAN120224	0.8346	27.0080
95	PAN130224	0.2609	26.6252
96	PAN120312	0.0976	1.9675
97	PAN130312	0.1725	9.0376
98	PAB000136	0.1804	0.4509
99	PAB100136	0.1858	0.4538
100	PAB125136	0.1831	0.4480

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1050	0.2646
102	PRV000001	0.0195	0.0990
103	PSR000001	0.1831	0.4535
104	PFM000001	0.0916	0.5842
105	PAN000136	0.3113	1.2001
106	PFM000002	0.0872	0.5558
107	EMPTY	0.0002	4.0816
108	EMPTY	0.7727	16.2783
109	EMPTY	0.0005	10.6383
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0235	0.0132
113	VPW000002	0.0039	0.0019
114	VPW000003	0.0586	0.0228
115	VPW000004	0.0586	0.0321
116	VPW000005	0.7852	0.3220
117	VPW000006	0.0625	0.0242
118	IPW000001	17.9228	1.8963
119	IPW000002	13.6592	0.6185
120	IPW000003	17.7058	0.7855
121	IPW000004	3.8281	0.5865
122	IPW000005	0.3028	0.0701
123	IPW000006	1.4062	0.3147
124	EMPTY	0.0006	3.2258
125	EMPTY	0.0005	4.0323
126	EMPTY	0.0000	0.0000
127	EMPTY	0.0001	0.5848
128	IHT000001	0.0547	0.0247
129	IHT000002	0.0117	0.0051
130	IHT000003	0.0391	0.0170
131	IHT000004	0.0391	0.0174
132	IHT000005	0.0937	0.0421
133	IHT000006	0.0234	0.0108
134	IHT000007	0.0742	0.0328
135	IHT000008	0.0351	0.0157
136	IHT000009	0.0234	0.0104
137	IHT000010	0.0703	0.1265
138	IHT000011	0.1211	0.0540
139	IHT000012	0.1055	0.0479
140	IHT000013	0.0547	0.0342
141	IHT000014	0.7344	0.3323
142	IHT000015	0.0508	0.0308
143	IHT000016	0.0547	0.0356
144	IHT000017	0.2188	0.1187
145	IHT000018	0.1875	0.1008
146	IHT000019	0.1211	0.0672
147	IHT000020	0.0078	0.0042
148	IHT000021	0.0078	0.5718
149	IHT000022	0.0937	0.0587
150	IHT000023	0.1055	0.0582
151	IHT000024	0.0586	0.0402
152	IHT000025	0.0040	0.0022
153	IHT000026	0.0235	0.0129
154	IHT000027	0.0703	0.0450
155	IHT000028	0.0117	0.0074

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0899	0.0494
157	IHT000030	0.0586	0.0316
158	IHT000031	0.0937	0.0514
159	IHT000032	0.1367	0.0740
160	IHT000033	0.1328	0.0719
161	IHT000034	0.1601	0.0986
162	IHT000035	0.5312	0.2480
163	IHT000036	0.0625	0.0390

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Velocity 1 = 20.1056 (ft/sec) (+/- 1.7193 %)

Velocity 2 = 13.4148 (ft/sec) (+/- 1.7033 %)

Pressure drop = 8.7060 (psi)

Tsat in = 292.8874 (deg F) Tsat out = 283.4473 (deg F)

Phi inner = 299.6092 (kBtu/hr-ft2) (+/- 1.2353 %)

Phi outer = 300.7151 (kBtu/hr-ft2) (+/- 1.2628 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.8816	85.5161	85.1143	1.8257e-01	1.9002e+00
1	TRF000002	85.2100	85.6309	85.3741	9.7781e-02	1.9002e+00
2	TFM000001	86.7132	87.5535	87.0998	2.1467e-01	1.9002e+00
3	TIN000001	86.1563	86.7890	86.5104	1.3762e-01	1.9002e+00
4	TRV000001	87.6585	88.4965	88.1026	2.2736e-01	1.9002e+00
5	TSR000001	134.9762	137.0902	136.0762	4.9796e-01	1.9029e+00
6	TAO020136	126.5349	144.4755	138.7095	4.2789e+00	1.9032e+00
7	TAO050136	157.3571	159.5323	158.2790	5.5067e-01	1.9052e+00
8	TAO070136	154.7886	159.1877	156.3336	1.0402e+00	1.9050e+00
9	TAO080136	177.4550	179.0149	178.3090	3.4109e-01	1.9079e+00
10	TAO090136	182.6855	184.4386	183.5197	4.1531e-01	1.9087e+00
11	TAO100136	174.9122	177.6550	175.7975	6.0095e-01	1.9075e+00
12	TAO105136	179.3866	181.5424	180.1437	5.0163e-01	1.9082e+00
13	TAO110136	88.9322	89.4557	89.1924	1.4672e-01	1.9002e+00
14	TAO115136	179.5080	182.0531	180.2213	5.5366e-01	1.9082e+00
15	TAO120136	196.8291	198.7640	197.3946	3.4091e-01	1.9109e+00
16	TAO125136	179.6382	182.9548	181.2110	6.7888e-01	1.9083e+00
17	TAO130136	186.3503	188.1789	186.9893	4.1045e-01	1.9092e+00
18	TAO120048	104.2473	105.2843	104.7408	2.7399e-01	1.9008e+00
19	TAO130048	197.5659	199.2024	198.3249	2.7568e-01	1.9111e+00
20	TAO120224	193.8463	196.0722	194.4784	3.4396e-01	1.9104e+00
21	TAO130224	179.7639	182.0909	180.5559	4.0943e-01	1.9082e+00
22	TAO120312	192.1518	194.6750	193.0099	5.3101e-01	1.9102e+00
23	TAO130312	197.0433	198.6837	197.5150	3.0980e-01	1.9109e+00
24	TRT020000	155.5636	156.4626	156.0830	2.3355e-01	1.9050e+00
25	TRT070000	179.3167	180.3017	179.7741	2.0951e-01	1.9081e+00
26	TRT100000	198.3567	199.3208	198.7736	2.0495e-01	1.9111e+00
27	TRT120000	459.8849	460.2272	460.0457	8.7519e-02	1.9999e+00
28	TRT125000	88.4993	89.3354	88.9049	1.8735e-01	1.9002e+00
29	TRT130000	203.5346	204.3037	203.8581	1.9897e-01	1.9120e+00
30	EMPTY	39.3761	40.2940	39.8260	2.4074e-01	1.9011e+00
31	TAF050136	111.8857	112.9122	112.3783	2.5157e-01	1.9012e+00
32	TAF070136	122.8751	124.5000	123.6591	3.6980e-01	1.9019e+00
33	TAF080136	171.1317	187.2656	176.4324	3.1044e+00	1.9076e+00
34	TAF090136	89.2218	90.3753	89.7795	2.8499e-01	1.9003e+00
35	TAF100136	138.8578	140.0698	139.6091	2.3722e-01	1.9033e+00
36	TAF105136	141.5188	142.9154	142.2531	3.1371e-01	1.9035e+00
37	TAF110136	145.4617	146.4644	146.0109	2.1343e-01	1.9039e+00
38	TAF115136	148.5864	149.7870	149.3024	2.8007e-01	1.9042e+00
39	TAF120136	168.4190	171.5579	169.3456	5.7261e-01	1.9066e+00
40	TAF125136	154.2146	155.4034	154.8275	2.7179e-01	1.9048e+00
41	TAF130136	156.3752	157.3704	156.8131	2.1065e-01	1.9051e+00
42	TAF120048	158.5565	159.7560	159.1166	2.9545e-01	1.9053e+00
43	TAF130048	165.4759	166.3662	165.9469	2.1289e-01	1.9062e+00
44	TAF120224	149.0797	150.3799	149.8160	2.5214e-01	1.9043e+00
45	TAF130224	153.6311	154.6332	154.1201	2.0909e-01	1.9048e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.0986	2.3756e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6057	1.2270e-01	1.9011e+00
48	TAI130048	189.9708	191.5248	190.6080	3.5441e-01	1.9098e+00
49	TAI130136	196.8506	197.9131	197.2837	2.2273e-01	1.9109e+00
50	TAI130224	202.1850	203.7306	202.9385	3.5503e-01	1.9119e+00
51	TAI130312	186.7266	188.1890	187.4714	3.0891e-01	1.9093e+00
52	TRR130000	119.5449	132.0267	123.4921	3.3317e+00	1.9019e+00
53	TSI000001	58.1344	58.8878	58.5429	1.7909e-01	1.9001e+00
54	TSI000002	77.6170	83.8347	79.8793	1.7811e+00	1.9001e+00
55	TSO000001	56.2316	57.2056	56.7250	2.0537e-01	1.9001e+00
56	TSO000002	68.3245	69.3927	68.8542	2.1464e-01	1.9000e+00
57	TAF020136	93.7162	94.7672	94.1788	2.8568e-01	1.9004e+00
58	TAF120312	154.5182	156.1138	155.4681	3.3544e-01	1.9049e+00
59	TAF130312	165.5957	168.0619	166.4561	4.8532e-01	1.9063e+00
60	EMPTY	2.1240	2.1484	2.1368	4.8216e-03	0.0000e+00
61	EMPTY	2.1289	2.1484	2.1354	4.1196e-03	0.0000e+00
62	EMPTY	2.1240	2.1387	2.1314	3.5895e-03	0.0000e+00
63	EMPTY	2.1289	2.1436	2.1361	4.3270e-03	0.0000e+00
64	EMPTY	1.1084	1.1182	1.1130	2.0716e-03	0.0000e+00
65	EMPTY	1.1279	1.1328	1.1321	1.7115e-03	0.0000e+00
66	EMPTY	1.1426	1.1475	1.1457	2.3675e-03	0.0000e+00
67	EMPTY	1.1572	1.1621	1.1616	1.4797e-03	0.0000e+00
68	EMPTY	1.1670	1.1768	1.1719	9.8648e-04	0.0000e+00
69	EMPTY	1.1816	1.1914	1.1866	1.2041e-03	0.0000e+00
70	EMPTY	1.1963	1.2012	1.1997	2.2603e-03	0.0000e+00
71	EMPTY	1.2158	1.2207	1.2187	2.4344e-03	0.0000e+00
72	EMPTY	1.2256	1.2354	1.2305	1.3951e-03	0.0000e+00
73	EMPTY	1.2451	1.2500	1.2453	9.6655e-04	0.0000e+00
74	EMPTY	1.2549	1.2598	1.2595	1.1714e-03	0.0000e+00
75	EMPTY	1.2744	1.2744	1.2744	0.0000e+00	0.0000e+00
76	EMPTY	1.2842	1.2891	1.2847	1.4797e-03	0.0000e+00
77	EMPTY	1.2988	1.3037	1.3034	1.1714e-03	0.0000e+00
78	EMPTY	1.3184	1.3281	1.3229	1.6624e-03	0.0000e+00
79	EMPTY	1.3379	1.3428	1.3411	2.3365e-03	0.0000e+00
80	PAN020136	19.9216	40.8262	30.3022	5.1040e+00	8.7329e-01
81	PAN050136	44.1410	54.8222	49.8234	2.5675e+00	1.6846e+00
82	PAN070136	23.6397	36.2282	30.3673	3.5237e+00	8.7331e-01
83	PAN080136	9.8479	28.6162	19.1130	4.9962e+00	8.7131e-01
84	PAN090136	14.6720	35.9580	23.0292	5.8108e+00	8.7190e-01
85	PAN100136	10.1634	36.7137	21.4900	6.8101e+00	8.7166e-01
86	PAN105136	-4.3451	19.6112	7.7231	7.1518e+00	8.7021e-01
87	PAN110136	-1.5764	24.3635	12.0253	6.8774e+00	8.7052e-01
88	PAN115136	-5.1945	18.3803	5.6865	5.7770e+00	8.7012e-01
89	PAN120136	-1.7891	23.3879	10.6865	5.4254e+00	8.7041e-01
90	PAN125136	-1.9887	26.2400	12.0677	6.0559e+00	8.7052e-01
91	PAN130136	5.4456	26.5028	17.0652	5.2617e+00	8.7105e-01
92	PAN120048	5.8997	38.7824	23.8364	8.1708e+00	8.7204e-01
93	PAN130048	6.5087	33.2115	18.8469	5.9769e+00	8.7127e-01
94	PAN120224	1.9016	22.1958	15.5887	5.3925e+00	8.7087e-01
95	PAN130224	16.6308	32.2711	23.2074	2.9160e+00	8.7193e-01
96	PAN120312	5.2718	33.5006	20.3185	6.0183e+00	8.7148e-01
97	PAN130312	11.2212	34.9486	22.0717	5.8903e+00	8.7175e-01
98	PAB000136	59.8204	60.7359	60.2525	2.5699e-01	5.9924e-01
99	PAB100136	53.2312	53.9636	53.6991	1.8778e-01	5.9533e-01
100	PAB125136	51.5780	52.2646	52.0660	1.3131e-01	5.9443e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.1237	60.8327	60.0881	4.4409e-01	7.6490e-01
102	PRV000001	19.8406	20.0848	19.9603	3.0104e-02	7.5166e-01
103	PSR000001	49.4542	49.6984	49.5763	8.1794e-02	7.6017e-01
104	PFM000001	60.9671	63.1643	62.2177	5.2041e-01	5.2364e-01
105	PAN000136	227.0952	259.5964	241.0294	7.4757e+00	4.9568e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0097	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-0.2832	-7.6616	2.3933e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0058	1.8950e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
112	VPW000001	176.8292	177.4151	177.1338	1.1942e-01	1.3363e+00
113	VPW000002	206.9374	207.1327	207.0155	9.6655e-02	1.4829e+00
114	VPW000003	256.0209	256.4115	256.2278	1.2731e-01	1.7377e+00
115	VPW000004	182.0125	182.4031	182.1610	1.1545e-01	1.3604e+00
116	VPW000005	242.5819	242.9725	242.8124	1.2283e-01	1.6669e+00
117	VPW000006	257.4407	258.0266	257.7686	1.3917e-01	1.7459e+00
118	IPW000001	933.9712	955.4470	947.5984	5.5570e+00	1.1030e+01
119	IPW000002	2225.2727	2242.8342	2235.1858	6.3177e+00	1.9427e+01
120	IPW000003	2256.1499	2267.8499	2263.2090	3.2935e+00	1.9629e+01
121	IPW000004	650.2122	656.0715	654.3922	2.0977e+00	5.5431e+00
122	IPW000005	435.6723	436.6487	436.0724	2.9077e-01	3.9834e+00
123	IPW000006	448.7681	450.2329	449.4123	4.1196e-01	4.0749e+00
124	EMPTY	-0.0244	-0.0098	-0.0191	4.0482e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0129	2.9197e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0157	3.9815e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.1583e-03	0.0000e+00
128	IHT000001	220.1247	223.2497	221.6677	6.8260e-01	4.6609e+00
129	IHT000002	226.7127	229.4471	228.2011	6.4100e-01	4.6923e+00
130	IHT000003	228.7936	231.5280	230.2858	6.2485e-01	4.7025e+00
131	IHT000004	224.5455	227.6705	226.2174	6.5455e-01	4.6827e+00
132	IHT000005	222.2356	225.1653	223.7393	6.7225e-01	4.6708e+00
133	IHT000006	216.3799	219.3096	217.7197	6.5674e-01	4.6422e+00
134	IHT000007	225.7212	228.8462	227.2367	6.4665e-01	4.6876e+00
135	IHT000008	223.1295	226.2545	224.6139	6.0746e-01	4.6749e+00
136	IHT000009	223.3135	226.8292	224.7002	6.7572e-01	4.6754e+00
137	IHT000010	55.0143	57.3580	56.1353	5.3059e-01	4.1383e+00
138	IHT000011	224.0572	226.2057	225.1081	4.9267e-01	4.6773e+00
139	IHT000012	220.1097	222.4534	221.1800	4.7881e-01	4.6585e+00
140	IHT000013	159.5703	161.7188	160.4766	4.9562e-01	4.4029e+00
141	IHT000014	220.7257	223.0694	221.6983	5.4461e-01	4.6610e+00
142	IHT000015	164.5433	167.0823	165.5472	5.4535e-01	4.4216e+00
143	IHT000016	153.1701	155.3185	154.1622	4.9259e-01	4.3803e+00
144	IHT000017	183.3909	186.3206	184.6605	6.1669e-01	4.4967e+00
145	IHT000018	185.4793	187.6277	186.4325	5.3034e-01	4.5040e+00
146	IHT000019	179.4546	181.7984	180.5992	5.6083e-01	4.4801e+00
147	IHT000020	184.5177	186.8615	185.7364	5.5181e-01	4.5011e+00
148	IHT000021	-3.0086	0.3118	-1.4851	6.7080e-01	4.1000e+00
149	IHT000022	158.8754	161.8051	160.0864	5.4104e-01	4.4015e+00
150	IHT000023	180.5364	183.6614	181.7863	5.4818e-01	4.4849e+00
151	IHT000024	145.3538	148.0882	146.2719	5.2977e-01	4.3531e+00
152	IHT000025	180.3298	182.8689	181.1032	5.9183e-01	4.4822e+00
153	IHT000026	182.0838	184.8182	183.1894	5.7400e-01	4.4906e+00
154	IHT000027	155.4237	158.3534	156.6151	5.9615e-01	4.3889e+00
155	IHT000028	157.5458	160.6708	158.8076	6.1664e-01	4.3968e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	181.1824	183.9168	182.2020	5.9095e-01	4.4866e+00
157	IHT000030	184.5515	186.8953	185.6610	6.0289e-01	4.5008e+00
158	IHT000031	181.6181	184.1572	182.8798	5.6801e-01	4.4894e+00
159	IHT000032	183.8905	186.6248	185.2694	6.0671e-01	4.4992e+00
160	IHT000033	183.9130	186.6474	185.1982	5.8805e-01	4.4989e+00
161	IHT000034	162.1019	163.8597	162.8324	4.7484e-01	4.4115e+00
162	IHT000035	213.5667	215.7152	214.5706	5.0534e-01	4.6275e+00
163	IHT000036	159.7919	162.1357	160.9287	5.4346e-01	4.4045e+00

Velocity 1 = 20.1086 (ft/sec) (+/- 1.7193 %)
Velocity 2 = 13.4142 (ft/sec) (+/- 1.7033 %)
Pressure drop = 8.5787 (psi)
Tsat in = 293.0245 (deg F) Tsat out = 283.6144 (deg F)
Phi inner = 297.0530 (kBtu/hr-ft2) (+/- 1.2362 %)
Phi outer = 298.4617 (kBtu/hr-ft2) (+/- 1.2636 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.8816	85.5161	85.1269	1.6195e-01	1.9002e+00
1	TRF000002	84.9996	85.6309	85.3278	1.2145e-01	1.9002e+00
2	TFM000001	86.0837	86.9244	86.5671	2.1742e-01	1.9002e+00
3	TIN000001	85.6293	86.2621	85.9923	1.5673e-01	1.9002e+00
4	TRV000001	87.1352	87.9751	87.5674	1.8515e-01	1.9002e+00
5	TSR000001	133.1643	137.1902	135.5846	1.2778e+00	1.9029e+00
6	TAO020136	135.6877	138.2186	136.8748	4.7447e-01	1.9030e+00
7	TAO050136	157.2580	159.3326	157.9628	5.2285e-01	1.9052e+00
8	TAO070136	154.3878	158.3893	155.9815	1.0120e+00	1.9050e+00
9	TAO080136	177.3569	179.1110	178.0247	3.3727e-01	1.9078e+00
10	TAO090136	182.3933	184.1468	183.2742	4.1004e-01	1.9086e+00
11	TAO100136	174.2255	177.1653	175.3584	6.6373e-01	1.9075e+00
12	TAO105136	179.0924	181.1507	179.8105	5.0889e-01	1.9081e+00
13	TAO110136	90.2832	90.8067	90.5627	1.4351e-01	1.9003e+00
14	TAO115136	178.9202	181.9553	179.8414	5.9630e-01	1.9081e+00
15	TAO120136	196.5388	198.0869	197.1083	3.2744e-01	1.9109e+00
16	TAO125136	179.9298	181.2974	180.5437	3.2816e-01	1.9082e+00
17	TAO130136	185.9662	186.7381	186.4286	1.5580e-01	1.9091e+00
18	TAO120048	105.0754	106.3172	105.6100	3.1102e-01	1.9009e+00
19	TAO130048	197.5654	198.8181	197.9629	2.8036e-01	1.9110e+00
20	TAO120224	193.4588	195.2989	194.1646	3.5975e-01	1.9104e+00
21	TAO130224	179.6660	181.5103	180.1256	3.3937e-01	1.9082e+00
22	TAO120312	191.8609	193.8022	192.5674	4.2787e-01	1.9101e+00
23	TAO130312	196.7548	197.6234	197.1563	2.1492e-01	1.9109e+00
24	TRT020000	155.1641	156.1623	155.7196	2.2484e-01	1.9049e+00
25	TRT070000	179.0206	180.0063	179.4312	2.1472e-01	1.9081e+00
26	TRT100000	197.7791	199.3213	198.5579	2.6418e-01	1.9111e+00
27	TRT120000	459.8849	460.2272	460.0321	8.2910e-02	1.9999e+00
28	TRT125000	90.9986	91.8330	91.4739	1.7899e-01	1.9003e+00
29	TRT130000	203.1510	203.9203	203.5393	1.6248e-01	1.9120e+00
30	EMPTY	39.3761	40.0646	39.8260	1.9095e-01	1.9011e+00
31	TAF050136	111.4755	112.5023	111.8820	2.0524e-01	1.9012e+00
32	TAF070136	122.2654	123.6887	123.0948	3.2162e-01	1.9019e+00
33	TAF080136	170.0575	185.1361	176.1752	3.1045e+00	1.9076e+00
34	TAF090136	90.6870	91.7340	91.1228	2.9544e-01	1.9003e+00
35	TAF100136	138.4537	139.5647	139.0235	2.3523e-01	1.9032e+00
36	TAF105136	141.0183	142.5170	141.7861	2.6586e-01	1.9035e+00
37	TAF110136	144.7625	145.9638	145.5070	2.6846e-01	1.9038e+00
38	TAF115136	148.2876	149.3868	148.8830	2.1563e-01	1.9042e+00
39	TAF120136	168.0263	170.6751	168.8394	5.3552e-01	1.9066e+00
40	TAF125136	153.8168	154.8077	154.3687	2.4175e-01	1.9048e+00
41	TAF130136	156.0781	156.6749	156.3604	1.3978e-01	1.9050e+00
42	TAF120048	158.1569	159.1565	158.6487	2.3195e-01	1.9053e+00
43	TAF130048	165.0827	165.9712	165.5043	2.0473e-01	1.9061e+00
44	TAF120224	148.5805	149.7807	149.3284	2.7948e-01	1.9042e+00
45	TAF130224	153.2299	153.9315	153.6469	1.5993e-01	1.9047e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0756	1.9493e-01	1.9010e+00
47	EMPTY	39.1464	39.8352	39.5873	1.3789e-01	1.9011e+00
48	TAI130048	189.2906	190.8455	190.1496	3.3915e-01	1.9097e+00
49	TAI130136	196.4647	197.3347	196.9520	2.4051e-01	1.9108e+00
50	TAI130224	201.9916	203.1513	202.6371	3.2502e-01	1.9118e+00
51	TAI130312	186.4336	187.6039	187.0776	2.3808e-01	1.9092e+00
52	TRR130000	123.4146	124.6354	123.9923	2.9294e-01	1.9020e+00
53	TSI000001	58.1344	58.8878	58.4699	1.8252e-01	1.9001e+00
54	TSI000002	79.8331	81.3095	80.5762	3.3419e-01	1.9001e+00
55	TSO000001	56.3399	57.3138	56.6818	2.2122e-01	1.9001e+00
56	TSO000002	68.3245	69.1784	68.7903	1.9011e-01	1.9000e+00
57	TAF020136	92.8744	94.3476	93.5816	2.8427e-01	1.9004e+00
58	TAF120312	154.0204	155.7157	155.0174	3.6550e-01	1.9049e+00
59	TAF130312	165.3974	166.7802	165.9708	2.6322e-01	1.9062e+00
60	EMPTY	2.1143	2.1289	2.1245	3.0003e-03	0.0000e+00
61	EMPTY	2.1191	2.1289	2.1238	1.9631e-03	0.0000e+00
62	EMPTY	2.1191	2.1240	2.1211	2.4164e-03	0.0000e+00
63	EMPTY	2.1191	2.1289	2.1257	2.5362e-03	0.0000e+00
64	EMPTY	1.1035	1.1084	1.1073	2.0432e-03	0.0000e+00
65	EMPTY	1.1230	1.1279	1.1271	1.8082e-03	0.0000e+00
66	EMPTY	1.1328	1.1426	1.1388	2.2689e-03	0.0000e+00
67	EMPTY	1.1523	1.1572	1.1558	2.2603e-03	0.0000e+00
68	EMPTY	1.1621	1.1719	1.1669	1.5566e-03	0.0000e+00
69	EMPTY	1.1768	1.1816	1.1814	9.6655e-04	0.0000e+00
70	EMPTY	1.1914	1.2012	1.1936	2.6396e-03	0.0000e+00
71	EMPTY	1.2109	1.2158	1.2125	2.3008e-03	0.0000e+00
72	EMPTY	1.2207	1.2305	1.2245	2.2689e-03	0.0000e+00
73	EMPTY	1.2354	1.2451	1.2409	1.9754e-03	0.0000e+00
74	EMPTY	1.2500	1.2549	1.2540	1.8950e-03	0.0000e+00
75	EMPTY	1.2646	1.2744	1.2688	1.9754e-03	0.0000e+00
76	EMPTY	1.2793	1.2891	1.2797	1.6624e-03	0.0000e+00
77	EMPTY	1.2842	1.2988	1.2961	2.9856e-03	0.0000e+00
78	EMPTY	1.3135	1.3184	1.3161	2.4583e-03	0.0000e+00
79	EMPTY	1.3330	1.3379	1.3345	2.2603e-03	0.0000e+00
80	PAN020136	19.4639	40.1395	29.7025	4.8301e+00	8.7316e-01
81	PAN050136	44.7514	55.4325	49.9699	2.3534e+00	1.6846e+00
82	PAN070136	22.9530	36.2282	29.3785	3.1735e+00	8.7309e-01
83	PAN080136	11.1449	27.8533	20.0805	4.3753e+00	8.7145e-01
84	PAN090136	12.3832	34.2033	24.2133	6.0276e+00	8.7210e-01
85	PAN100136	8.1797	34.6537	20.8415	6.7112e+00	8.7156e-01
86	PAN105136	-3.2007	21.3660	8.2007	6.7426e+00	8.7024e-01
87	PAN110136	-3.8652	24.9739	10.4063	6.5670e+00	8.7039e-01
88	PAN115136	-7.4834	18.9143	5.9444	5.0977e+00	8.7013e-01
89	PAN120136	-0.2633	27.0500	10.9474	6.3716e+00	8.7043e-01
90	PAN125136	-3.0568	26.4689	12.2691	6.5802e+00	8.7054e-01
91	PAN130136	3.1568	17.6527	13.0765	3.4655e+00	8.7061e-01
92	PAN120048	7.6545	36.7225	25.1838	6.3614e+00	8.7228e-01
93	PAN130048	7.9582	38.0181	18.7371	5.1225e+00	8.7126e-01
94	PAN120224	1.4438	29.1385	17.0139	6.5460e+00	8.7104e-01
95	PAN130224	13.6554	35.0940	23.1463	3.6475e+00	8.7192e-01
96	PAN120312	5.8059	34.7213	18.8994	7.4083e+00	8.7128e-01
97	PAN130312	8.5509	36.6271	20.1949	5.0534e+00	8.7146e-01
98	PAB000136	59.9577	60.8732	60.3770	2.6359e-01	5.9932e-01
99	PAB100136	53.4601	54.1467	53.8208	1.9125e-01	5.9540e-01
100	PAB125136	51.5780	52.4019	52.2042	1.5068e-01	5.9450e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.3679	60.8327	60.1223	3.9589e-01	7.6491e-01
102	PRV0000001	19.4744	19.8406	19.7210	4.6072e-02	7.5162e-01
103	PSR0000001	49.5763	49.6984	49.6520	5.9853e-02	7.6020e-01
104	PFM0000001	61.6079	62.8897	62.2415	3.3592e-01	5.2365e-01
105	PAN000136	224.8063	257.3076	237.5047	7.9496e+00	4.9557e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0096	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-1.5234	-5.0180	2.4407e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0060	2.0432e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
112	VPW0000001	177.0245	177.4151	177.1729	1.0849e-01	1.3365e+00
113	VPW0000002	206.9374	207.1327	207.0702	9.2034e-02	1.4831e+00
114	VPW0000003	255.6303	256.4115	256.1653	1.3560e-01	1.7374e+00
115	VPW0000004	181.8171	182.4031	182.1805	1.3093e-01	1.3605e+00
116	VPW0000005	242.5819	242.9725	242.7812	1.2780e-01	1.6667e+00
117	VPW0000006	257.6360	258.2219	257.8663	1.2283e-01	1.7464e+00
118	IPW0000001	961.3040	967.1610	963.6470	1.7639e+00	1.1116e+01
119	IPW0000002	2186.2473	2190.1499	2187.9248	1.4756e+00	1.9088e+01
120	IPW0000003	2236.6499	2244.4500	2241.0959	1.5278e+00	1.9470e+01
121	IPW0000004	657.5364	658.5129	657.7905	2.8317e-01	5.5681e+00
122	IPW0000005	434.2076	435.6723	435.0569	3.7960e-01	3.9765e+00
123	IPW0000006	448.2798	449.2563	448.7385	2.8608e-01	4.0703e+00
124	EMPTY	-0.0293	-0.0146	-0.0201	3.5072e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.7213e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0158	2.8862e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	3.5895e-03	0.0000e+00
128	IHT0000001	220.1247	223.0544	221.3669	6.8318e-01	4.6594e+00
129	IHT0000002	226.9080	229.2518	227.9198	6.5991e-01	4.6909e+00
130	IHT0000003	228.7936	231.3326	229.9655	6.5316e-01	4.7009e+00
131	IHT0000004	224.7408	227.2799	225.8542	6.6057e-01	4.6809e+00
132	IHT0000005	222.0403	224.5793	223.3761	6.2435e-01	4.6690e+00
133	IHT0000006	215.9893	218.5284	217.3447	6.2690e-01	4.6405e+00
134	IHT0000007	225.3306	228.0649	226.8812	6.0671e-01	4.6859e+00
135	IHT0000008	222.7389	225.4733	224.3210	5.7487e-01	4.6735e+00
136	IHT0000009	222.9229	225.8526	224.5361	6.1991e-01	4.6746e+00
137	IHT0000010	55.0143	56.9674	55.9830	5.3809e-01	4.1380e+00
138	IHT0000011	223.8619	226.0103	225.0143	5.8160e-01	4.6769e+00
139	IHT0000012	219.9144	222.0628	221.0862	5.6634e-01	4.6581e+00
140	IHT0000013	158.9844	161.5234	160.2539	5.4996e-01	4.4021e+00
141	IHT0000014	219.9444	222.4835	221.4248	5.7601e-01	4.6597e+00
142	IHT0000015	163.9573	166.6917	165.2933	5.7367e-01	4.4207e+00
143	IHT0000016	152.5841	155.3185	153.9395	5.6000e-01	4.3795e+00
144	IHT0000017	183.1956	185.7347	184.4261	6.2172e-01	4.4957e+00
145	IHT0000018	185.0886	188.0183	186.4599	6.6905e-01	4.5041e+00
146	IHT0000019	179.4546	182.3843	180.6148	6.3676e-01	4.4802e+00
147	IHT0000020	184.5177	187.2521	185.7560	6.1840e-01	4.5012e+00
148	IHT0000021	-2.8132	0.5071	-1.5047	7.7850e-01	4.1000e+00
149	IHT0000022	159.0708	161.6098	160.1216	5.8646e-01	4.4016e+00
150	IHT0000023	180.5364	183.4661	181.7550	6.2085e-01	4.4848e+00
151	IHT0000024	145.1585	147.6976	146.2445	6.0510e-01	4.3530e+00
152	IHT0000025	179.7439	182.2829	181.0915	6.3779e-01	4.4821e+00
153	IHT0000026	181.6932	184.4276	183.2167	6.2515e-01	4.4907e+00
154	IHT0000027	154.8377	157.9627	156.5839	7.0852e-01	4.3888e+00
155	IHT0000028	157.5458	160.6708	159.0302	7.0697e-01	4.3976e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.9871	184.3074	182.4247	7.9288e-01	4.4875e+00
157	IHT000030	184.5515	187.8719	185.8954	7.9961e-01	4.5017e+00
158	IHT000031	181.8134	184.9384	183.1142	7.7886e-01	4.4903e+00
159	IHT000032	184.0858	187.4061	185.5312	8.3984e-01	4.5002e+00
160	IHT000033	183.9130	187.2333	185.4521	8.2264e-01	4.4999e+00
161	IHT000034	161.7112	164.4456	162.9222	6.6380e-01	4.4118e+00
162	IHT000035	213.3714	215.9105	214.6409	6.3165e-01	4.6279e+00
163	IHT000036	159.7919	161.9403	160.9560	5.7718e-01	4.4046e+00

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Velocity 1 = 0.003000 (ft/sec)

Velocity 2 = 0.000600 (ft/sec)

Pressure Drop = 0.127300 (psi)

Tsat in = 0.137115 (deg F) Tsat out = 0.167114 (deg F)

Phi inner = 2.556183 (kBtu/hr-ft2) Phi outer = 2.253387 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0126	0.0148
1	TRF000002	0.0463	0.0542
2	TFM000001	0.5327	0.6116
3	TIN000001	0.5181	0.5989
4	TRV000001	0.5352	0.6075
5	TSR000001	0.4916	0.3613
6	TAO020136	1.8347	1.3227
7	TAO050136	0.3162	0.1998
8	TAO070136	0.3521	0.2252
9	TAO080136	0.2843	0.1594
10	TAO090136	0.2455	0.1338
11	TAO100136	0.4391	0.2498
12	TAO105136	0.3332	0.1850
13	TAO110136	1.3703	1.5363
14	TAO115136	0.3799	0.2108
15	TAO120136	0.2863	0.1450
16	TAO125136	0.6673	0.3682
17	TAO130136	0.5607	0.2999
18	TAO120048	0.8692	0.8299
19	TAO130048	0.3620	0.1825
20	TAO120224	0.3138	0.1614
21	TAO130224	0.4303	0.2383
22	TAO120312	0.4425	0.2293
23	TAO130312	0.3587	0.1816
24	TRT020000	0.3634	0.2328
25	TRT070000	0.3429	0.1907
26	TRT100000	0.2157	0.1085
27	TRT120000	0.0136	0.0030
28	TRT125000	2.5690	2.8896
29	TRT130000	0.3188	0.1564
30	EMPTY	0.0000	0.0000
31	TAF050136	0.4963	0.4416
32	TAF070136	0.5643	0.4563
33	TAF080136	0.2572	0.1458
34	TAF090136	1.3433	1.4962
35	TAF100136	0.5856	0.4195
36	TAF105136	0.4670	0.3283
37	TAF110136	0.5039	0.3451
38	TAF115136	0.4194	0.2809
39	TAF120136	0.5062	0.2989
40	TAF125136	0.4588	0.2963
41	TAF130136	0.4527	0.2887
42	TAF120048	0.4679	0.2941
43	TAF130048	0.4426	0.2667
44	TAF120224	0.4876	0.3255
45	TAF130224	0.4732	0.3070

#	Name	Abs Diff	%Diff
46	EMPTY	0.0230	0.0604
47	EMPTY	0.0184	0.0465
48	TAI130048	0.4584	0.2405
49	TAI130136	0.3317	0.1681
50	TAI130224	0.3014	0.1485
51	TAI130312	0.3938	0.2101
52	TRR130000	0.5002	0.4050
53	TSI000001	0.0730	0.1247
54	TSI000002	0.6969	0.8724
55	TSO000001	0.0432	0.0762
56	TSO000002	0.0639	0.0928
57	TAF020136	0.5972	0.6341
58	TAF120312	0.4507	0.2899
59	TAF130312	0.4853	0.2916
60	EMPTY	0.0123	0.5756
61	EMPTY	0.0116	0.5432
62	EMPTY	0.0103	0.4833
63	EMPTY	0.0104	0.4869
64	EMPTY	0.0057	0.5121
65	EMPTY	0.0050	0.4417
66	EMPTY	0.0069	0.6022
67	EMPTY	0.0058	0.4993
68	EMPTY	0.0050	0.4267
69	EMPTY	0.0052	0.4382
70	EMPTY	0.0061	0.5085
71	EMPTY	0.0062	0.5087
72	EMPTY	0.0060	0.4876
73	EMPTY	0.0044	0.3533
74	EMPTY	0.0055	0.4367
75	EMPTY	0.0056	0.4394
76	EMPTY	0.0050	0.3892
77	EMPTY	0.0073	0.5601
78	EMPTY	0.0068	0.5140
79	EMPTY	0.0066	0.4921
80	PAN020136	0.5997	1.9791
81	PAN050136	0.1465	0.2940
82	PAN070136	0.9888	3.2561
83	PAN080136	0.9675	5.0620
84	PAN090136	1.1841	5.1417
85	PAN100136	0.6485	3.0177
86	PAN105136	0.4776	6.1840
87	PAN110136	1.6190	13.4633
88	PAN115136	0.2579	4.5353
89	PAN120136	0.2609	2.4414
90	PAN125136	0.2014	1.6689
91	PAN130136	3.9887	23.3733
92	PAN120048	1.3474	5.6527
93	PAN130048	0.1098	0.5826
94	PAN120224	1.4252	9.1425
95	PAN130224	0.0611	0.2633
96	PAN120312	1.4191	6.9843
97	PAN130312	1.8768	8.5032
98	PAB000136	0.1245	0.2066
99	PAB100136	0.1217	0.2266
100	PAB125136	0.1382	0.2654

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0342	0.0569
102	PRV000001	0.2393	1.1989
103	PSR000001	0.0757	0.1527
104	PFM000001	0.0238	0.0383
105	PAN000136	3.5247	1.4624
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.0309
108	EMPTY	2.6436	34.5045
109	EMPTY	0.0002	3.4483
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0391	0.0221
113	VPW000002	0.0547	0.0264
114	VPW000003	0.0625	0.0244
115	VPW000004	0.0195	0.0107
116	VPW000005	0.0312	0.0128
117	VPW000006	0.0977	0.0379
118	IPW000001	16.0486	1.6936
119	IPW000002	47.2610	2.1144
120	IPW000003	22.1130	0.9771
121	IPW000004	3.3983	0.5193
122	IPW000005	1.0155	0.2329
123	IPW000006	0.6738	0.1499
124	EMPTY	0.0010	5.2356
125	EMPTY	0.0001	0.7752
126	EMPTY	0.0001	0.6369
127	EMPTY	0.0009	5.5901
128	IHT000001	0.3008	0.1357
129	IHT000002	0.2813	0.1233
130	IHT000003	0.3203	0.1391
131	IHT000004	0.3632	0.1606
132	IHT000005	0.3632	0.1623
133	IHT000006	0.3750	0.1722
134	IHT000007	0.3555	0.1564
135	IHT000008	0.2929	0.1304
136	IHT000009	0.1641	0.0730
137	IHT000010	0.1523	0.2713
138	IHT000011	0.0938	0.0417
139	IHT000012	0.0938	0.0424
140	IHT000013	0.2227	0.1388
141	IHT000014	0.2735	0.1234
142	IHT000015	0.2539	0.1534
143	IHT000016	0.2227	0.1445
144	IHT000017	0.2344	0.1269
145	IHT000018	0.0274	0.0147
146	IHT000019	0.0156	0.0086
147	IHT000020	0.0196	0.0105
148	IHT000021	0.0196	1.3198
149	IHT000022	0.0352	0.0220
150	IHT000023	0.0313	0.0172
151	IHT000024	0.0274	0.0187
152	IHT000025	0.0117	0.0065
153	IHT000026	0.0273	0.0149
154	IHT000027	0.0312	0.0199
155	IHT000028	0.2226	0.1402

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2227	0.1222
157	IHT000030	0.2344	0.1263
158	IHT000031	0.2344	0.1282
159	IHT000032	0.2618	0.1413
160	IHT000033	0.2539	0.1371
161	IHT000034	0.0898	0.0551
162	IHT000035	0.0703	0.0328
163	IHT000036	0.0273	0.0170

Velocity 1 = 16.1075 (ft/sec) (+/- 1.7856 %)
 Velocity 2 = 13.4152 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 3.7599 (psi)
 Tsat in = 292.7753 (deg F) Tsat out = 288.7549 (deg F)
 Phi inner = 300.2791 (kBtu/hr-ft2) (+/- 1.2351 %)
 Phi outer = 300.3814 (kBtu/hr-ft2) (+/- 1.2632 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.6700	85.3047	85.0720	1.7751e-01	1.9002e+00
1	TRF000002	84.9996	85.4205	85.2310	1.3612e-01	1.9002e+00
2	TFM000001	87.0276	87.6580	87.4182	1.6716e-01	1.9002e+00
3	TIN000001	86.4724	87.1044	86.8347	1.4308e-01	1.9002e+00
4	TRV000001	88.0756	88.8094	88.4323	1.6110e-01	1.9002e+00
5	TSR000001	138.5969	143.6101	141.8418	1.4648e+00	1.9035e+00
6	TAO020136	134.8763	143.4683	139.9155	1.9659e+00	1.9033e+00
7	TAO050136	172.0063	174.8427	173.1413	6.4974e-01	1.9072e+00
8	TAO070136	167.9446	172.4009	169.6923	1.0702e+00	1.9067e+00
9	TAO080136	196.5147	198.0536	197.2000	3.1967e-01	1.9109e+00
10	TAO090136	202.2374	205.0250	203.3302	5.2646e-01	1.9119e+00
11	TAO100136	194.2904	196.9000	195.1801	6.0875e-01	1.9105e+00
12	TAO105136	199.2507	202.4391	200.5463	7.1787e-01	1.9114e+00
13	TAO110136	90.0731	90.8042	90.4456	1.6090e-01	1.9003e+00
14	TAO115136	200.8942	203.1130	201.5815	4.8272e-01	1.9116e+00
15	TAO120136	220.2519	222.4423	220.9837	5.2691e-01	1.9153e+00
16	TAO125136	199.6126	204.8990	202.5177	1.0164e+00	1.9118e+00
17	TAO130136	208.9231	210.9083	209.5751	4.3194e-01	1.9131e+00
18	TAO120048	106.2130	107.4544	106.7676	2.8852e-01	1.9009e+00
19	TAO130048	222.5814	224.1933	223.1172	3.1326e-01	1.9157e+00
20	TAO120224	216.2416	217.8635	216.6391	3.0133e-01	1.9144e+00
21	TAO130224	201.1171	204.1722	202.3221	7.0647e-01	1.9118e+00
22	TAO120312	216.0404	218.7138	217.0953	6.0821e-01	1.9145e+00
23	TAO130312	220.6744	222.0028	221.2513	3.0013e-01	1.9153e+00
24	TRT020000	169.5741	170.4639	170.1039	2.4348e-01	1.9067e+00
25	TRT070000	198.7119	200.0732	199.3925	2.5757e-01	1.9112e+00
26	TRT100000	221.8663	223.1007	222.6221	2.5793e-01	1.9156e+00
27	TRT120000	459.7993	460.1415	459.9706	9.6190e-02	1.9998e+00
28	TRT125000	91.4132	92.2468	91.8643	1.9823e-01	1.9003e+00
29	TRT130000	227.4438	228.2961	227.8981	2.0064e-01	1.9167e+00
30	EMPTY	39.3761	40.2940	39.8489	2.1949e-01	1.9011e+00
31	TAF050136	118.7370	120.3695	119.5659	3.4843e-01	1.9017e+00
32	TAF070136	132.6849	134.2958	133.5301	4.0206e-01	1.9027e+00
33	TAF080136	192.7600	271.1993	199.2631	1.5211e+01	1.9112e+00
34	TAF090136	90.6867	91.6293	91.2606	2.4311e-01	1.9003e+00
35	TAF100136	152.9260	154.3257	153.7702	3.5669e-01	1.9047e+00
36	TAF105136	156.4068	157.9858	157.2466	3.5510e-01	1.9051e+00
37	TAF110136	161.2674	162.2566	161.7746	2.4281e-01	1.9057e+00
38	TAF115136	165.3594	166.4465	165.8343	2.4830e-01	1.9062e+00
39	TAF120136	189.3649	192.5522	190.6941	8.5895e-01	1.9098e+00
40	TAF125136	172.0903	173.9449	172.8371	4.3350e-01	1.9071e+00
41	TAF130136	174.5239	175.8968	175.2848	3.0598e-01	1.9075e+00
42	TAF120048	177.3320	178.6153	177.9323	3.2912e-01	1.9078e+00
43	TAF130048	185.7779	187.2398	186.3087	3.1062e-01	1.9091e+00
44	TAF120224	165.8661	167.1500	166.4512	3.3425e-01	1.9063e+00
45	TAF130224	171.2685	172.4556	172.0044	2.8065e-01	1.9070e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1262	1.9793e-01	1.9010e+00
47	EMPTY	39.1464	41.4403	39.6882	3.5223e-01	1.9011e+00
48	TAI130048	214.5348	216.1599	215.3191	3.7620e-01	1.9142e+00
49	TAI130136	221.6236	222.6693	222.0349	2.4592e-01	1.9155e+00
50	TAI130224	226.7175	228.2380	227.4282	3.3104e-01	1.9166e+00
51	TAI130312	210.8089	211.9595	211.3459	2.6435e-01	1.9134e+00
52	TRR130000	132.6326	136.5647	134.6464	1.2137e+00	1.9029e+00
53	TSI000001	58.7775	59.3156	59.0917	1.5326e-01	1.9001e+00
54	TSI000002	80.1487	82.3628	81.2669	6.3437e-01	1.9001e+00
55	TSO000001	56.3405	57.0979	56.8207	2.0054e-01	1.9001e+00
56	TSO000002	70.1373	71.2034	70.7173	2.2710e-01	1.9000e+00
57	TAF020136	96.0293	98.0215	97.0778	4.2843e-01	1.9005e+00
58	TAF120312	172.7513	175.1113	173.8650	4.7512e-01	1.9073e+00
59	TAF130312	185.9776	188.6018	186.9070	5.7770e-01	1.9092e+00
60	EMPTY	2.6318	2.6514	2.6427	5.6917e-03	0.0000e+00
61	EMPTY	2.6318	2.6416	2.6366	2.8744e-03	0.0000e+00
62	EMPTY	2.6270	2.6367	2.6302	2.5362e-03	0.0000e+00
63	EMPTY	2.6270	2.6367	2.6319	2.3114e-03	0.0000e+00
64	EMPTY	1.3232	1.3330	1.3285	1.6624e-03	0.0000e+00
65	EMPTY	1.3428	1.3477	1.3466	2.0432e-03	0.0000e+00
66	EMPTY	1.3525	1.3623	1.3578	1.6624e-03	0.0000e+00
67	EMPTY	1.3672	1.3770	1.3727	1.8821e-03	0.0000e+00
68	EMPTY	1.3818	1.3867	1.3824	1.6028e-03	0.0000e+00
69	EMPTY	1.3965	1.4014	1.3966	6.9053e-04	0.0000e+00
70	EMPTY	1.4063	1.4111	1.4070	1.8082e-03	0.0000e+00
71	EMPTY	1.4209	1.4258	1.4257	6.9053e-04	0.0000e+00
72	EMPTY	1.4355	1.4355	1.4355	0.0000e+00	0.0000e+00
73	EMPTY	1.4502	1.4551	1.4507	1.4797e-03	0.0000e+00
74	EMPTY	1.4600	1.4648	1.4627	2.4484e-03	0.0000e+00
75	EMPTY	1.4746	1.4795	1.4765	2.3941e-03	0.0000e+00
76	EMPTY	1.4844	1.4893	1.4863	2.4164e-03	0.0000e+00
77	EMPTY	1.4990	1.5088	1.5024	2.4662e-03	0.0000e+00
78	EMPTY	1.5186	1.5234	1.5198	2.1635e-03	0.0000e+00
79	EMPTY	1.5381	1.5430	1.5382	6.9053e-04	0.0000e+00
80	PAN020136	2.2977	28.5429	14.6100	6.0893e+00	8.7077e-01
81	PAN050136	11.1820	26.7460	19.7086	4.0839e+00	1.6807e+00
82	PAN070136	0.0649	21.3509	8.3702	5.2844e+00	8.7025e-01
83	PAN080136	-5.0294	21.7498	7.4889	7.0095e+00	8.7020e-01
84	PAN090136	-1.9601	27.8709	12.3847	7.3780e+00	8.7055e-01
85	PAN100136	-3.9510	24.2015	9.8414	6.7310e+00	8.7035e-01
86	PAN105136	-6.6339	18.6194	5.8005	5.9554e+00	8.7012e-01
87	PAN110136	-7.2222	18.8704	4.8094	6.9745e+00	8.7008e-01
88	PAN115136	-7.5597	12.8871	1.0463	4.4349e+00	8.7000e-01
89	PAN120136	-6.6720	18.6576	8.1489	5.2622e+00	8.7024e-01
90	PAN125136	-5.9560	16.0929	3.3976	5.3526e+00	8.7004e-01
91	PAN130136	2.2413	17.7290	9.4785	2.9785e+00	8.7032e-01
92	PAN120048	-2.4163	21.7689	8.9896	4.7941e+00	8.7029e-01
93	PAN130048	1.5495	16.5032	9.4033	2.7742e+00	8.7032e-01
94	PAN120224	-5.3463	14.4901	5.7376	5.1308e+00	8.7012e-01
95	PAN130224	5.0341	22.4292	13.0374	4.1486e+00	8.7061e-01
96	PAN120312	-1.3658	21.5224	11.6484	5.9165e+00	8.7049e-01
97	PAN130312	-0.6044	20.7579	8.3068	4.9780e+00	8.7025e-01
98	PAB000136	59.4999	60.6443	60.1509	2.8010e-01	5.9918e-01
99	PAB100136	56.7560	57.5342	57.3017	1.8470e-01	5.9743e-01
100	PAB125136	55.9725	56.7965	56.5758	1.4198e-01	5.9700e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	58.8796	60.7106	59.9319	5.0052e-01	7.6482e-01
102	PRV000001	19.8406	19.9627	19.9334	5.2663e-02	7.5165e-01
103	PSR000001	54.5812	54.9474	54.7862	7.9685e-02	7.6240e-01
104	PFM000001	39.3606	40.4592	39.8385	2.4419e-01	5.0982e-01
105	PAN000136	86.1039	122.7250	104.0941	9.0293e+00	4.9269e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	-0.0049	0.0098	0.0084	2.7971e-03	0.0000e+00
108	EMPTY	-10.0000	-0.2588	-4.5475	2.8882e+00	0.0000e+00
109	EMPTY	0.0049	0.0195	0.0052	2.0716e-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	177.0245	177.8057	177.4151	1.6741e-01	1.3376e+00
113	VPW000002	206.9374	207.5233	207.2382	1.2608e-01	1.4840e+00
114	VPW000003	256.2162	256.6068	256.3880	1.0907e-01	1.7385e+00
115	VPW000004	182.0125	182.5984	182.3016	1.3229e-01	1.3611e+00
116	VPW000005	242.7772	243.1678	243.0273	1.1189e-01	1.6680e+00
117	VPW000006	257.8313	258.4172	258.0772	1.4123e-01	1.7475e+00
118	IPW000001	935.9235	943.7329	940.5310	1.4631e+00	1.0992e+01
119	IPW000002	2229.1753	2248.6880	2237.3708	5.8737e+00	1.9443e+01
120	IPW000003	2260.0498	2267.8499	2265.1980	2.2202e+00	1.9643e+01
121	IPW000004	648.2590	652.1653	649.5776	9.0547e-01	5.5076e+00
122	IPW000005	434.6958	435.6723	435.1644	3.5510e-01	3.9772e+00
123	IPW000006	450.7212	452.1860	451.5217	3.3829e-01	4.0895e+00
124	EMPTY	-0.0293	-0.0146	-0.0195	3.8206e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0130	3.2133e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0153	3.5582e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0150	3.2479e-03	0.0000e+00
128	IHT000001	219.7341	222.8591	221.2497	7.4718e-01	4.6589e+00
129	IHT000002	226.3221	228.8612	227.7206	6.5478e-01	4.6900e+00
130	IHT000003	228.4030	230.9420	229.6920	6.7543e-01	4.6996e+00
131	IHT000004	224.1549	226.6940	225.5807	6.2046e-01	4.6796e+00
132	IHT000005	221.8449	224.5793	223.1261	6.1783e-01	4.6678e+00
133	IHT000006	215.7940	218.5284	217.1260	6.5991e-01	4.6394e+00
134	IHT000007	224.9399	227.8696	226.6039	6.5226e-01	4.6845e+00
135	IHT000008	222.3483	225.4733	224.0514	7.1359e-01	4.6722e+00
136	IHT000009	222.7276	225.4620	224.2080	6.6038e-01	4.6730e+00
137	IHT000010	54.4283	57.1627	55.9635	6.3505e-01	4.1380e+00
138	IHT000011	223.2760	226.0103	224.9010	6.5011e-01	4.6763e+00
139	IHT000012	219.7191	222.0628	220.9417	5.9818e-01	4.6574e+00
140	IHT000013	158.9844	161.3281	160.1094	5.5742e-01	4.4015e+00
141	IHT000014	220.1397	222.4835	221.2647	4.9215e-01	4.6589e+00
142	IHT000015	164.3479	166.3011	165.1801	5.2171e-01	4.4202e+00
143	IHT000016	152.7794	155.3185	153.9317	5.7622e-01	4.3794e+00
144	IHT000017	183.1956	186.1253	184.5589	7.2918e-01	4.4962e+00
145	IHT000018	185.2840	188.0183	186.5028	6.6563e-01	4.5043e+00
146	IHT000019	179.4546	181.7984	180.6304	5.7655e-01	4.4803e+00
147	IHT000020	184.7130	186.8615	185.8380	4.9056e-01	4.5015e+00
148	IHT000021	-2.6179	0.1164	-1.2547	6.3195e-01	4.1000e+00
149	IHT000022	159.4614	161.4145	160.4341	4.8083e-01	4.4027e+00
150	IHT000023	180.9270	182.8801	181.9034	5.1750e-01	4.4854e+00
151	IHT000024	145.1585	147.3070	146.3578	4.9128e-01	4.3534e+00
152	IHT000025	180.3298	182.2829	181.2516	5.2056e-01	4.4828e+00
153	IHT000026	182.6698	184.8182	183.5019	5.2765e-01	4.4919e+00
154	IHT000027	156.0096	158.3534	156.9667	5.7487e-01	4.3902e+00
155	IHT000028	157.1552	160.2802	158.7724	7.1250e-01	4.3967e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.4012	183.7215	182.0536	7.0389e-01	4.4860e+00
157	IHT000030	183.9656	187.2859	185.5868	7.2679e-01	4.5005e+00
158	IHT000031	181.0322	184.3525	182.7900	6.9475e-01	4.4890e+00
159	IHT000032	183.8905	187.0155	185.2616	6.9080e-01	4.4991e+00
160	IHT000033	183.7177	187.0380	185.1904	7.0610e-01	4.4988e+00
161	IHT000034	161.5159	164.2503	162.7777	5.2676e-01	4.4113e+00
162	IHT000035	213.1761	215.9105	214.5745	5.4727e-01	4.6276e+00
163	IHT000036	159.4013	162.1357	160.8623	5.6942e-01	4.4043e+00

Velocity 1 = 16.0889 (ft/sec) (+/- 1.7861 %)
 Velocity 2 = 13.4150 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 3.7751 (psi)
 Tsat in = 292.9661 (deg F) Tsat out = 288.9897 (deg F)
 Phi inner = 300.3363 (kBtu/hr-ft2) (+/- 1.2350 %)
 Phi outer = 300.7008 (kBtu/hr-ft2) (+/- 1.2631 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	84.6700	85.3047	85.0508	1.9114e-01	1.9002e+00
1	TRF0000002	84.9996	85.4205	85.1932	1.3338e-01	1.9002e+00
2	TFM0000001	86.8184	87.6580	87.2546	1.9943e-01	1.9002e+00
3	TIN0000001	86.3667	86.9993	86.7083	1.5133e-01	1.9002e+00
4	TRV0000001	87.8665	88.8094	88.2983	2.1304e-01	1.9002e+00
5	TSR0000001	139.2992	143.2084	141.3330	1.1011e+00	1.9034e+00
6	TAO020136	137.5101	142.9641	140.3970	1.3003e+00	1.9033e+00
7	TAO050136	171.7116	174.3539	173.1411	6.4467e-01	1.9072e+00
8	TAO070136	168.5396	173.6852	170.2588	1.1792e+00	1.9068e+00
9	TAO080136	196.5152	197.9569	197.1459	3.2677e-01	1.9109e+00
10	TAO090136	202.4292	204.1613	203.3339	4.3122e-01	1.9119e+00
11	TAO100136	194.1939	197.2857	195.3656	7.5554e-01	1.9106e+00
12	TAO105136	199.4441	201.8597	200.3337	6.3404e-01	1.9114e+00
13	TAO110136	89.3452	90.1815	89.7311	1.8222e-01	1.9003e+00
14	TAO115136	200.5081	203.5937	201.5775	6.4744e-01	1.9116e+00
15	TAO120136	220.2514	222.0617	220.8656	4.2642e-01	1.9153e+00
16	TAO125136	201.1510	203.4597	202.0717	5.1227e-01	1.9117e+00
17	TAO130136	208.6380	211.0976	209.5444	5.4842e-01	1.9131e+00
18	TAO120048	105.4898	106.5245	106.0192	2.8163e-01	1.9009e+00
19	TAO130048	222.5832	224.1919	223.1360	3.1533e-01	1.9157e+00
20	TAO120224	216.4324	217.6733	216.8641	2.4795e-01	1.9145e+00
21	TAO130224	200.9256	203.8873	202.1462	6.8014e-01	1.9117e+00
22	TAO120312	216.0404	218.6193	217.0494	5.6591e-01	1.9145e+00
23	TAO130312	220.6732	222.0984	221.3233	3.6214e-01	1.9154e+00
24	TRT020000	169.5736	170.5624	170.0643	2.6117e-01	1.9067e+00
25	TRT070000	198.8083	199.9759	199.2798	2.5255e-01	1.9112e+00
26	TRT100000	222.2456	223.1007	222.6410	2.0976e-01	1.9156e+00
27	TRT120000	459.7141	460.1415	459.9467	1.0082e-01	1.9998e+00
28	TRT125000	90.5809	91.5204	91.1236	2.0886e-01	1.9003e+00
29	TRT130000	227.4426	228.3903	227.9320	2.0195e-01	1.9167e+00
30	EMPTY	39.3761	40.0646	39.7388	2.4134e-01	1.9011e+00
31	TAF050136	118.7370	120.1657	119.4108	3.2207e-01	1.9016e+00
32	TAF070136	132.6854	134.1946	133.5017	3.3843e-01	1.9027e+00
33	TAF080136	192.9525	262.7509	197.8903	1.2081e+01	1.9110e+00
34	TAF090136	89.6397	91.0020	90.2480	3.1603e-01	1.9003e+00
35	TAF100136	152.7269	154.2262	153.6303	3.2874e-01	1.9047e+00
36	TAF105136	156.2099	157.6886	157.1279	2.9423e-01	1.9051e+00
37	TAF110136	161.1676	162.3563	161.7467	3.0962e-01	1.9057e+00
38	TAF115136	164.9663	166.4465	165.7750	3.0447e-01	1.9062e+00
39	TAF120136	189.3637	192.7446	190.6244	8.1005e-01	1.9098e+00
40	TAF125136	171.9919	173.9449	172.8953	4.3738e-01	1.9071e+00
41	TAF130136	174.6216	175.7992	175.2651	2.6748e-01	1.9075e+00
42	TAF120048	177.0370	178.6147	177.8929	4.1952e-01	1.9078e+00
43	TAF130048	185.5839	187.4336	186.3164	3.4424e-01	1.9091e+00
44	TAF120224	165.8661	167.1505	166.4195	2.6785e-01	1.9063e+00
45	TAF130224	171.4660	172.5551	171.9411	2.8266e-01	1.9070e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1307	2.3266e-01	1.9010e+00
47	EMPTY	39.3761	40.9819	39.6883	2.8858e-01	1.9011e+00
48	TAI130048	214.6309	216.3508	215.3152	4.2871e-01	1.9142e+00
49	TAI130136	221.6241	222.5737	222.0575	2.4127e-01	1.9155e+00
50	TAI130224	226.9070	228.2380	227.5042	3.3750e-01	1.9166e+00
51	TAI130312	210.9044	212.0555	211.4379	2.7619e-01	1.9134e+00
52	TRR130000	134.3472	137.4712	136.2261	7.8456e-01	1.9030e+00
53	TSI000001	58.4549	59.1012	58.7956	1.8607e-01	1.9001e+00
54	TSI000002	80.1492	82.7837	81.5870	5.8481e-01	1.9001e+00
55	TSO000001	56.3405	57.2057	56.8382	1.9917e-01	1.9001e+00
56	TSO000002	70.2434	71.2034	70.6959	2.0152e-01	1.9000e+00
57	TAF020136	96.2379	97.9160	96.9562	3.7081e-01	1.9005e+00
58	TAF120312	172.7508	175.0140	173.7823	5.1855e-01	1.9072e+00
59	TAF130312	185.9781	188.7955	186.9729	7.0749e-01	1.9092e+00
60	EMPTY	2.6367	2.6611	2.6449	7.9189e-03	0.0000e+00
61	EMPTY	2.6270	2.6514	2.6379	5.6290e-03	0.0000e+00
62	EMPTY	2.6221	2.6416	2.6320	4.2954e-03	0.0000e+00
63	EMPTY	2.6270	2.6367	2.6327	3.7809e-03	0.0000e+00
64	EMPTY	1.3232	1.3330	1.3277	2.7621e-03	0.0000e+00
65	EMPTY	1.3428	1.3525	1.3454	2.6488e-03	0.0000e+00
66	EMPTY	1.3525	1.3672	1.3582	3.1752e-03	0.0000e+00
67	EMPTY	1.3672	1.3770	1.3723	1.9631e-03	0.0000e+00
68	EMPTY	1.3770	1.3867	1.3818	1.9730e-03	0.0000e+00
69	EMPTY	1.3916	1.4014	1.3955	2.2058e-03	0.0000e+00
70	EMPTY	1.4014	1.4111	1.4066	2.1702e-03	0.0000e+00
71	EMPTY	1.4209	1.4307	1.4249	2.1364e-03	0.0000e+00
72	EMPTY	1.4307	1.4355	1.4350	1.6028e-03	0.0000e+00
73	EMPTY	1.4453	1.4551	1.4503	1.2041e-03	0.0000e+00
74	EMPTY	1.4600	1.4648	1.4621	2.4484e-03	0.0000e+00
75	EMPTY	1.4746	1.4795	1.4756	1.9730e-03	0.0000e+00
76	EMPTY	1.4844	1.4941	1.4853	2.3531e-03	0.0000e+00
77	EMPTY	1.4990	1.5039	1.5009	2.3941e-03	0.0000e+00
78	EMPTY	1.5186	1.5234	1.5190	1.4797e-03	0.0000e+00
79	EMPTY	1.5332	1.5381	1.5380	6.9053e-04	0.0000e+00
80	PAN020136	3.0607	27.7799	14.8389	6.5543e+00	8.7079e-01
81	PAN050136	13.4708	27.3563	20.3983	3.6098e+00	1.6808e+00
82	PAN070136	-1.6136	21.1220	7.9933	5.7738e+00	8.7023e-01
83	PAN080136	-4.8005	17.7062	7.1502	5.6212e+00	8.7018e-01
84	PAN090136	-3.7911	28.4049	13.1187	8.0792e+00	8.7062e-01
85	PAN100136	-7.1553	22.2178	9.0937	7.4231e+00	8.7030e-01
86	PAN105136	-7.7020	21.1371	7.6582	6.4029e+00	8.7005e-01
87	PAN110136	-7.1459	18.5652	5.2946	5.7901e+00	8.7010e-01
88	PAN115136	-7.4071	10.5983	1.7299	4.2729e+00	8.7001e-01
89	PAN120136	-6.6720	19.1154	7.1678	5.7358e+00	8.7018e-01
90	PAN125136	-6.0323	11.4390	3.1993	5.4946e+00	8.7004e-01
91	PAN130136	1.6309	20.6281	8.9445	3.9152e+00	8.7029e-01
92	PAN120048	-2.4926	21.6926	11.9468	5.4911e+00	8.7051e-01
93	PAN130048	3.6858	20.3179	9.1851	3.5529e+00	8.7030e-01
94	PAN120224	-9.0848	17.3892	4.1629	6.7260e+00	8.7006e-01
95	PAN130224	6.7126	24.6417	12.8375	4.2014e+00	8.7059e-01
96	PAN120312	-0.4502	21.9039	10.1332	6.0047e+00	8.7037e-01
97	PAN130312	1.7607	21.9786	9.3047	4.6010e+00	8.7031e-01
98	PAB000136	59.7746	60.8732	60.3239	2.6305e-01	5.9929e-01
99	PAB100136	56.9391	57.6715	57.3969	2.0742e-01	5.9749e-01
100	PAB125136	56.3845	57.0711	56.7809	1.4611e-01	5.9712e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.0017	61.0769	60.1687	4.6803e-01	7.6494e-01
102	PRV000001	19.7186	19.9627	19.9456	4.9385e-02	7.5166e-01
103	PSR000001	54.9474	55.0695	54.9913	5.9189e-02	7.6250e-01
104	PFM000001	39.3606	40.2761	39.7470	2.0370e-01	5.0978e-01
105	PAN000136	86.1039	127.7604	104.5152	8.8972e+00	4.9269e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0088	1.9730e-03	0.0000e+00
108	EMPTY	-7.5293	-1.3428	-4.8309	1.3428e+00	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	VPW000001	177.0245	177.6104	177.3057	1.2577e-01	1.3371e+00
113	VPW000002	206.9374	207.5233	207.2499	1.1161e-01	1.4840e+00
114	VPW000003	256.2162	256.8021	256.4271	1.5201e-01	1.7388e+00
115	VPW000004	182.0125	182.5984	182.2587	1.5185e-01	1.3609e+00
116	VPW000005	242.7772	243.3631	243.0156	1.4385e-01	1.6680e+00
117	VPW000006	257.6360	258.2219	257.9561	1.1679e-01	1.7469e+00
118	IPW000001	933.9712	939.8282	936.6651	1.1760e+00	1.0971e+01
119	IPW000002	2240.8828	2248.6880	2243.5371	2.1864e+00	1.9487e+01
120	IPW000003	2261.9998	2267.8499	2266.0168	1.3878e+00	1.9649e+01
121	IPW000004	649.7239	653.6301	652.1362	8.7352e-01	5.5265e+00
122	IPW000005	434.2076	435.6723	434.9984	3.6762e-01	3.9761e+00
123	IPW000006	449.7446	452.1860	451.0920	4.5805e-01	4.0865e+00
124	EMPTY	-0.0244	-0.0098	-0.0187	3.3728e-03	0.0000e+00
125	EMPTY	-0.0244	0.0000	-0.0130	4.0204e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0144	3.3322e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0164	2.9197e-03	0.0000e+00
128	IHT000001	219.7341	222.4684	221.2263	6.2485e-01	4.6588e+00
129	IHT000002	226.3221	229.2518	227.7597	6.3105e-01	4.6901e+00
130	IHT000003	228.4030	231.1373	229.7741	6.4173e-01	4.7000e+00
131	IHT000004	224.1549	226.6940	225.6706	7.0538e-01	4.6800e+00
132	IHT000005	221.8449	224.3840	223.3292	6.2390e-01	4.6688e+00
133	IHT000006	215.5987	218.3331	217.2393	5.9973e-01	4.6400e+00
134	IHT000007	225.3306	227.6743	226.6468	5.5497e-01	4.6847e+00
135	IHT000008	222.7389	225.0826	224.1061	5.4534e-01	4.6725e+00
136	IHT000009	222.7276	225.2667	224.2471	5.9880e-01	4.6732e+00
137	IHT000010	54.4283	57.1627	55.8424	6.3327e-01	4.1379e+00
138	IHT000011	223.2760	226.2057	224.7409	6.1795e-01	4.6756e+00
139	IHT000012	218.9378	222.4534	220.8011	6.4502e-01	4.6567e+00
140	IHT000013	158.5938	162.1094	160.1523	6.0553e-01	4.4017e+00
141	IHT000014	219.7491	223.2647	221.3115	6.3870e-01	4.6592e+00
142	IHT000015	163.5667	167.0823	165.2738	5.8635e-01	4.4206e+00
143	IHT000016	152.3888	155.9044	153.9395	6.3554e-01	4.3795e+00
144	IHT000017	183.1956	186.3206	184.6605	7.5618e-01	4.4967e+00
145	IHT000018	184.6980	187.8230	186.2528	7.7219e-01	4.5032e+00
146	IHT000019	178.8687	181.7984	180.4781	5.9262e-01	4.4796e+00
147	IHT000020	184.1271	187.0568	185.7052	6.0082e-01	4.5010e+00
148	IHT000021	-3.5945	0.1164	-1.5125	7.9372e-01	4.1000e+00
149	IHT000022	158.2895	161.0239	159.8950	6.0140e-01	4.4008e+00
150	IHT000023	179.9504	182.8801	181.6378	6.5407e-01	4.4843e+00
151	IHT000024	144.3773	147.3070	146.1000	6.5399e-01	4.3525e+00
152	IHT000025	179.3532	182.0876	180.9665	6.4212e-01	4.4816e+00
153	IHT000026	181.4979	184.4276	183.1815	6.8219e-01	4.4906e+00
154	IHT000027	155.0331	157.7674	156.4159	7.0899e-01	4.3882e+00
155	IHT000028	157.9364	160.0849	158.8896	5.3908e-01	4.3971e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	181.3777	183.9168	182.3075	5.4756e-01	4.4870e+00
157	IHT000030	184.7469	187.2859	185.8016	4.9756e-01	4.5014e+00
158	IHT000031	182.0087	184.5478	182.9658	5.4283e-01	4.4897e+00
159	IHT000032	184.4764	186.6248	185.3593	5.7486e-01	4.4995e+00
160	IHT000033	184.3036	186.4521	185.2764	5.6288e-01	4.4992e+00
161	IHT000034	162.1019	163.6644	162.7308	4.5556e-01	4.4111e+00
162	IHT000035	213.7620	215.5199	214.4612	4.6704e-01	4.6270e+00
163	IHT000036	159.9872	161.9403	160.8662	4.4337e-01	4.4043e+00

Velocity 1 = 0.018600 (ft/sec)
 Velocity 2 = 0.000200 (ft/sec)
 Pressure Drop = 0.015200 (psi)
 Tstat in = 0.190796 (deg F) Tstat out = 0.234772 (deg F)
 Phi inner = 0.057190 (kBtu/hr-ft2) Phi outer = 0.319397 (kBtu/hr-ft2)

	Name	Abs Diff	%Diff
0	TRF000001	0.0212	0.0249
1	TRF000002	0.0378	0.0444
2	TFM000001	0.1636	0.1871
3	TIN000001	0.1264	0.1456
4	TRV000001	0.1340	0.1515
5	TSR000001	0.5088	0.3587
6	TAO020136	0.4815	0.3441
7	TAO050136	0.0002	0.0001
8	TAO070136	0.5665	0.3338
9	TAO080136	0.0541	0.0274
10	TAO090136	0.0037	0.0018
11	TAO100136	0.1855	0.0950
12	TAO105136	0.2126	0.1060
13	TAO110136	0.7145	0.7900
14	TAO115136	0.0040	0.0020
15	TAO120136	0.1181	0.0534
16	TAO125136	0.4460	0.2202
17	TAO130136	0.0307	0.0146
18	TAO120048	0.7484	0.7010
19	TAO130048	0.0188	0.0084
20	TAO120224	0.2250	0.1039
21	TAO130224	0.1759	0.0869
22	TAO120312	0.0459	0.0211
23	TAO130312	0.0720	0.0325
24	TRT020000	0.0396	0.0233
25	TRT070000	0.1127	0.0565
26	TRT100000	0.0189	0.0085
27	TRT120000	0.0239	0.0052
28	TRT125000	0.7407	0.8063
29	TRT130000	0.0339	0.0149
30	EMPTY	0.1101	0.2763
31	TAF050136	0.1551	0.1297
32	TAF070136	0.0284	0.0213
33	TAF080136	1.3728	0.6889
34	TAF090136	1.0126	1.1096
35	TAF100136	0.1399	0.0910
36	TAF105136	0.1187	0.0755
37	TAF110136	0.0279	0.0172
38	TAF115136	0.0593	0.0358
39	TAF120136	0.0697	0.0366
40	TAF125136	0.0582	0.0337
41	TAF130136	0.0197	0.0112
42	TAF120048	0.0394	0.0221
43	TAF130048	0.0077	0.0041
44	TAF120224	0.0317	0.0190
45	TAF130224	0.0633	0.0368

#	Name	Abs Diff	%Diff
46	EMPTY	0.0045	0.0118
47	EMPTY	0.0001	0.0002
48	TAI130048	0.0039	0.0018
49	TAI130136	0.0226	0.0102
50	TAI130224	0.0760	0.0334
51	TAI130312	0.0920	0.0435
52	TRR130000	1.5797	1.1732
53	TSI000001	0.2961	0.5011
54	TSI000002	0.3201	0.3939
55	TSO000001	0.0175	0.0308
56	TSO000002	0.0214	0.0303
57	TAF020136	0.1216	0.1253
58	TAF120312	0.0827	0.0476
59	TAF130312	0.0659	0.0353
60	EMPTY	0.0022	0.0833
61	EMPTY	0.0013	0.0493
62	EMPTY	0.0018	0.0684
63	EMPTY	0.0008	0.0304
64	EMPTY	0.0008	0.0602
65	EMPTY	0.0012	0.0891
66	EMPTY	0.0004	0.0295
67	EMPTY	0.0004	0.0291
68	EMPTY	0.0006	0.0434
69	EMPTY	0.0011	0.0788
70	EMPTY	0.0004	0.0284
71	EMPTY	0.0008	0.0561
72	EMPTY	0.0005	0.0348
73	EMPTY	0.0004	0.0276
74	EMPTY	0.0006	0.0410
75	EMPTY	0.0009	0.0610
76	EMPTY	0.0010	0.0673
77	EMPTY	0.0015	0.0998
78	EMPTY	0.0008	0.0526
79	EMPTY	0.0002	0.0130
80	PAN020136	0.2289	1.5667
81	PAN050136	0.6897	3.4995
82	PAN070136	0.3769	4.5029
83	PAN080136	0.3387	4.5227
84	PAN090136	0.7340	5.9267
85	PAN100136	0.7477	7.5975
86	PAN105136	2.1423	36.9330
87	PAN110136	0.4852	10.0886
88	PAN115136	0.6836	65.3350
89	PAN120136	0.9811	12.0397
90	PAN125136	0.1983	5.8365
91	PAN130136	0.5340	5.6338
92	PAN120048	2.9572	32.8958
93	PAN130048	0.2182	2.3205
94	PAN120224	1.5747	27.4453
95	PAN130224	0.1999	1.5333
96	PAN120312	1.5152	13.0078
97	PAN130312	0.9979	12.0131
98	PAB000136	0.1730	0.2876
99	PAB100136	0.0952	0.1661
100	PAB125136	0.2051	0.3625

#	Name	Abs Diff	%Diff
101	PIN000001	0.2368	0.3951
102	PRV000001	0.0122	0.0612
103	PSR000001	0.2051	0.3744
104	PFM000001	0.0915	0.2297
105	PAN000136	0.4211	0.4045
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0004	4.7619
108	EMPTY	0.2834	6.2320
109	EMPTY	0.0002	3.8462
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.1094	0.0617
113	VPW000002	0.0117	0.0056
114	VPW000003	0.0391	0.0152
115	VPW000004	0.0429	0.0235
116	VPW000005	0.0117	0.0048
117	VPW000006	0.1211	0.0469
118	IPW000001	3.8659	0.4110
119	IPW000002	6.1663	0.2756
120	IPW000003	0.8188	0.0361
121	IPW000004	2.5587	0.3939
122	IPW000005	0.1660	0.0381
123	IPW000006	0.4297	0.0952
124	EMPTY	0.0008	4.1026
125	EMPTY	0.0000	0.0000
126	EMPTY	0.0009	5.8824
127	EMPTY	0.0014	9.3333
128	IHT000001	0.0234	0.0106
129	IHT000002	0.0391	0.0172
130	IHT000003	0.0821	0.0357
131	IHT000004	0.0899	0.0398
132	IHT000005	0.2031	0.0910
133	IHT000006	0.1133	0.0522
134	IHT000007	0.0429	0.0189
135	IHT000008	0.0547	0.0244
136	IHT000009	0.0391	0.0174
137	IHT000010	0.1211	0.2164
138	IHT000011	0.1601	0.0712
139	IHT000012	0.1406	0.0636
140	IHT000013	0.0429	0.0268
141	IHT000014	0.0468	0.0212
142	IHT000015	0.0937	0.0567
143	IHT000016	0.0078	0.0051
144	IHT000017	0.1016	0.0551
145	IHT000018	0.2500	0.1340
146	IHT000019	0.1523	0.0843
147	IHT000020	0.1328	0.0715
148	IHT000021	0.2578	20.5468
149	IHT000022	0.5391	0.3360
150	IHT000023	0.2656	0.1460
151	IHT000024	0.2578	0.1761
152	IHT000025	0.2851	0.1573
153	IHT000026	0.3204	0.1746
154	IHT000027	0.5508	0.3509
155	IHT000028	0.1172	0.0738

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	Name	Abs Diff	%Diff
6	IHT000029	0.2539	0.1395
7	IHT000030	0.2148	0.1157
8	IHT000031	0.1758	0.0962
9	IHT000032	0.0977	0.0527
0	IHT000033	0.0860	0.0464
1	IHT000034	0.0469	0.0288
2	IHT000035	0.1133	0.0528
3	IHT000036	0.0039	0.0024

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Velocity 1 = 11.9918 (ft/sec) (+/- 2.0215 %)
Velocity 2 = 11.9849 (ft/sec) (+/- 1.7211 %)
Pressure drop = -0.1991 (psi)
Tsats in = 293.3033 (deg F) Tsats out = 293.5715 (deg F)
Phi inner = 300.5597 (kBtu/hr-ft2) (+/- 1.2350 %)
Phi outer = 299.0616 (kBtu/hr-ft2) (+/- 1.2641 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.6700	85.3047	84.9365	1.9499e-01	1.9002e+00
1	TRF000002	84.9996	85.2100	85.1090	1.0622e-01	1.9002e+00
2	TFM000001	86.5024	87.1332	86.7948	1.7408e-01	1.9002e+00
3	TIN000001	85.9454	86.4726	86.2091	1.5098e-01	1.9002e+00
4	TRV000001	87.7610	88.8079	88.3415	2.4044e-01	1.9002e+00
5	TSR000001	145.1060	150.2960	147.5012	1.2706e+00	1.9040e+00
6	TAO020136	147.7924	151.2030	148.9872	7.8972e-01	1.9042e+00
7	TAO050136	193.9375	196.8263	195.3543	6.2225e-01	1.9106e+00
8	TAO070136	189.0116	193.1099	190.4275	1.1611e+00	1.9097e+00
9	TAO080136	225.9228	227.3377	226.4460	3.0782e-01	1.9164e+00
10	TAO090136	233.7333	235.2412	234.3841	3.7985e-01	1.9181e+00
11	TAO100136	225.2105	228.0517	226.2735	6.6696e-01	1.9164e+00
12	TAO105136	231.4941	233.1033	232.1932	3.7902e-01	1.9176e+00
13	TAO110136	89.0346	89.5586	89.2750	1.4666e-01	1.9003e+00
14	TAO115136	235.7136	237.2227	236.4130	3.7156e-01	1.9186e+00
15	TAO120136	257.1587	258.9270	257.9052	3.6103e-01	1.9236e+00
16	TAO125136	235.1111	244.9610	238.9434	2.1404e+00	1.9191e+00
17	TAO130136	246.2786	247.6639	246.9182	3.3111e-01	1.9210e+00
18	TAO120048	106.1090	107.2471	106.6990	3.0871e-01	1.9009e+00
19	TAO130048	262.7938	264.1812	263.4131	2.9091e-01	1.9250e+00
20	TAO120224	252.8291	254.2276	253.6246	3.3334e-01	1.9226e+00
21	TAO130224	236.3223	238.1906	237.1699	4.3265e-01	1.9187e+00
22	TAO120312	253.4345	255.6733	254.8691	4.3830e-01	1.9229e+00
23	TAO130312	259.0299	260.0511	259.6260	2.0722e-01	1.9241e+00
24	TRT020000	190.4755	191.8393	191.2762	2.9002e-01	1.9099e+00
25	TRT070000	228.6719	229.8163	229.2115	3.0053e-01	1.9170e+00
26	TRT100000	259.6317	260.9282	260.1757	2.9479e-01	1.9242e+00
27	TRT120000	459.7141	460.0563	459.8662	1.0267e-01	1.9998e+00
28	TRT125000	90.8918	91.7283	91.3618	1.9825e-01	1.9003e+00
29	TRT130000	265.2757	266.6629	266.0097	2.9542e-01	1.9257e+00
30	EMPTY	39.3761	40.2940	39.7893	2.4970e-01	1.9011e+00
31	TAF050136	129.5043	132.1303	130.9418	5.8753e-01	1.9025e+00
32	TAF070136	148.2085	151.2930	149.7578	6.2132e-01	1.9043e+00
33	TAF080136	222.3973	225.2285	223.8342	5.5937e-01	1.9159e+00
34	TAF090136	89.0120	90.0598	89.6426	2.7324e-01	1.9003e+00
35	TAF100136	176.2200	178.4796	177.3934	5.4143e-01	1.9078e+00
36	TAF105136	181.1562	183.4793	182.2771	6.0092e-01	1.9085e+00
37	TAF110136	187.0222	189.2510	187.9665	5.0010e-01	1.9094e+00
38	TAF115136	192.3262	194.2606	193.0522	4.1040e-01	1.9102e+00
39	TAF120136	224.7190	231.7878	227.5321	1.6572e+00	1.9166e+00
40	TAF125136	201.8385	203.7515	202.6733	4.4912e-01	1.9118e+00
41	TAF130136	205.1586	207.0777	206.0133	4.3089e-01	1.9124e+00
42	TAF120048	207.2156	208.8579	207.9825	4.0955e-01	1.9128e+00
43	TAF130048	218.5193	220.4240	219.3328	3.7685e-01	1.9150e+00
44	TAF120224	193.3366	194.7899	194.0171	3.6831e-01	1.9103e+00
45	TAF130224	200.9566	202.9914	201.7495	4.0299e-01	1.9117e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1262	1.9794e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8719	1.1692e-01	1.9011e+00
48	TAI130048	250.7067	253.2275	251.7175	5.0881e-01	1.9221e+00
49	TAI130136	255.5081	256.9964	256.0981	2.6258e-01	1.9232e+00
50	TAI130224	262.9997	264.6726	263.8086	3.8034e-01	1.9251e+00
51	TAI130312	247.2157	248.6219	247.9340	3.3433e-01	1.9212e+00
52	TRR130000	142.0867	143.7918	142.8356	3.9117e-01	1.9036e+00
53	TSI000001	58.9915	59.7427	59.2818	1.8712e-01	1.9001e+00
54	TSI000002	83.3078	84.9900	84.1931	3.7881e-01	1.9001e+00
55	TSO000001	56.2322	57.2062	56.7410	2.1223e-01	1.9001e+00
56	TSO000002	73.0104	73.9678	73.5658	2.0761e-01	1.9000e+00
57	TAF020136	99.9079	103.2523	101.4155	7.3324e-01	1.9007e+00
58	TAF120312	201.9807	204.1023	202.8896	5.2566e-01	1.9119e+00
59	TAF130312	219.0667	221.2550	220.0892	4.6935e-01	1.9151e+00
60	EMPTY	3.4717	3.4912	3.4793	5.2348e-03	0.0000e+00
61	EMPTY	3.4619	3.4717	3.4654	3.1257e-03	0.0000e+00
62	EMPTY	3.4424	3.4570	3.4513	2.7356e-03	0.0000e+00
63	EMPTY	3.4424	3.4473	3.4459	2.2146e-03	0.0000e+00
64	EMPTY	1.6797	1.6895	1.6843	1.5314e-03	0.0000e+00
65	EMPTY	1.6992	1.6992	1.6992	0.0000e+00	0.0000e+00
66	EMPTY	1.7041	1.7090	1.7088	9.6655e-04	0.0000e+00
67	EMPTY	1.7188	1.7285	1.7216	2.6267e-03	0.0000e+00
68	EMPTY	1.7285	1.7285	1.7285	0.0000e+00	0.0000e+00
69	EMPTY	1.7383	1.7432	1.7392	1.8950e-03	0.0000e+00
70	EMPTY	1.7480	1.7480	1.7480	0.0000e+00	0.0000e+00
71	EMPTY	1.7627	1.7676	1.7645	2.3675e-03	0.0000e+00
72	EMPTY	1.7676	1.7773	1.7725	9.8648e-04	0.0000e+00
73	EMPTY	1.7822	1.7871	1.7863	1.8082e-03	0.0000e+00
74	EMPTY	1.7920	1.7969	1.7958	2.0432e-03	0.0000e+00
75	EMPTY	1.8018	1.8066	1.8065	6.9053e-04	0.0000e+00
76	EMPTY	1.8115	1.8213	1.8145	2.6100e-03	0.0000e+00
77	EMPTY	1.8262	1.8311	1.8271	1.8950e-03	0.0000e+00
78	EMPTY	1.8408	1.8457	1.8433	2.4662e-03	0.0000e+00
79	EMPTY	1.8604	1.8652	1.8606	1.1714e-03	0.0000e+00
80	PAN020136	-10.6722	13.5892	-0.1925	5.9838e+00	8.7000e-01
81	PAN050136	-20.5563	5.2311	-8.4164	6.5428e+00	1.6801e+00
82	PAN070136	-20.9160	11.2801	-3.7743	8.2300e+00	8.7005e-01
83	PAN080136	-13.8795	15.5700	-2.2981	7.9012e+00	8.7002e-01
84	PAN090136	-10.0472	18.1052	2.3292	5.8470e+00	8.7002e-01
85	PAN100136	-12.1908	11.9944	-0.6048	6.9626e+00	8.7000e-01
86	PAN105136	-7.7020	12.2870	-0.7501	4.5559e+00	8.7000e-01
87	PAN110136	-7.2222	5.3663	-2.0586	3.9111e+00	8.7002e-01
88	PAN115136	-7.5597	7.4703	-0.3926	4.0539e+00	8.7000e-01
89	PAN120136	-6.7482	11.5623	-2.4132	4.1123e+00	8.7002e-01
90	PAN125136	-1.5310	20.5943	7.8883	5.0125e+00	8.7022e-01
91	PAN130136	-6.3799	11.9306	4.0754	3.0983e+00	8.7006e-01
92	PAN120048	4.1450	23.2948	10.0181	4.3906e+00	8.7036e-01
93	PAN130048	-1.7311	3.9910	1.4855	1.4135e+00	8.7001e-01
94	PAN120224	-10.9921	10.2939	1.8543	4.8590e+00	8.7001e-01
95	PAN130224	-6.4862	9.9170	2.0205	3.0913e+00	8.7001e-01
96	PAN120312	-13.5728	14.3508	4.2434	5.4264e+00	8.7006e-01
97	PAN130312	-6.5553	12.5945	3.0562	3.4559e+00	8.7003e-01
98	PAB000136	60.0950	61.1937	60.6306	2.6951e-01	5.9948e-01
99	PAB100136	60.5097	61.1505	60.8713	1.6832e-01	5.9963e-01
100	PAB125136	60.6417	61.1910	60.8752	1.0225e-01	5.9963e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.3679	61.0769	60.3591	4.8556e-01	7.6503e-01
102	PRV000001	19.8406	19.9627	19.9139	6.0409e-02	7.5165e-01
103	PSR000001	59.5861	59.8302	59.6812	5.6722e-02	7.6470e-01
104	PFM000001	21.7825	22.2402	21.9949	1.2605e-01	5.0301e-01
105	PAN000136	-34.2879	11.9462	-5.5129	9.4468e+00	4.9200e+00
106	PFM000002	21.8302	22.1490	21.9691	7.4891e-02	2.0740e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-9.0918	-0.9863	-5.6748	1.2325e+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	177.4151	178.1964	177.5323	1.3669e-01	1.3382e+00
113	VPW000002	207.3280	207.9139	207.4609	1.2124e-01	1.4851e+00
114	VPW000003	256.6068	256.9974	256.8060	1.0799e-01	1.7408e+00
115	VPW000004	182.2078	182.7937	182.5048	1.2627e-01	1.3621e+00
116	VPW000005	243.1678	243.5584	243.2617	1.1327e-01	1.6693e+00
117	VPW000006	258.0266	258.8079	258.5186	1.4890e-01	1.7499e+00
118	IPW000001	932.0189	937.8759	935.2595	1.4551e+00	1.0964e+01
119	IPW000002	2217.4678	2223.3215	2220.9011	1.5043e+00	1.9325e+01
120	IPW000003	2261.9998	2267.8499	2264.9639	1.1309e+00	1.9641e+01
121	IPW000004	650.2122	653.1418	651.0327	4.3495e-01	5.5183e+00
122	IPW000005	432.2547	433.7194	433.0650	3.5027e-01	3.9629e+00
123	IPW000006	448.7681	450.7212	449.8420	4.1853e-01	4.0779e+00
124	EMPTY	-0.0244	-0.0146	-0.0185	3.5962e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0122	3.0003e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0141	3.7745e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	2.7902e-03	0.0000e+00
128	IHT000001	219.5387	222.8591	221.1091	6.7538e-01	4.6582e+00
129	IHT000002	226.5174	229.2518	227.6503	6.5554e-01	4.6896e+00
130	IHT000003	228.2076	231.5280	229.6061	6.8158e-01	4.6991e+00
131	IHT000004	224.1549	227.4752	225.5807	6.6993e-01	4.6796e+00
132	IHT000005	221.8449	224.9699	223.1534	6.4507e-01	4.6679e+00
133	IHT000006	215.7940	218.9190	217.1885	6.6616e-01	4.6397e+00
134	IHT000007	225.3306	228.0649	226.7836	5.9603e-01	4.6854e+00
135	IHT000008	222.9342	225.4733	224.0905	5.8772e-01	4.6724e+00
136	IHT000009	223.1182	225.4620	224.2588	5.8708e-01	4.6732e+00
137	IHT000010	54.2330	56.9674	55.4166	5.7779e-01	4.1373e+00
138	IHT000011	223.4713	225.6197	224.4713	5.2146e-01	4.6743e+00
139	IHT000012	219.7191	222.0628	220.6565	5.5524e-01	4.6561e+00
140	IHT000013	158.7891	161.3281	159.9258	5.1098e-01	4.4009e+00
141	IHT000014	219.7491	222.2882	220.9131	5.1139e-01	4.6573e+00
142	IHT000015	163.7620	166.6917	164.9691	5.5760e-01	4.4194e+00
143	IHT000016	152.3888	155.3185	153.6075	5.2728e-01	4.3783e+00
144	IHT000017	183.1956	185.5394	184.4496	5.8406e-01	4.4958e+00
145	IHT000018	184.8933	187.4324	185.9872	5.9582e-01	4.5021e+00
146	IHT000019	178.8687	181.2124	180.1031	6.5130e-01	4.4781e+00
147	IHT000020	183.9318	186.6662	185.4591	6.7967e-01	4.4999e+00
148	IHT000021	-3.2039	0.1164	-1.4070	8.4814e-01	4.1000e+00
149	IHT000022	158.2895	161.0239	159.7934	7.0061e-01	4.4004e+00
150	IHT000023	179.9504	182.4895	181.4464	6.8528e-01	4.4836e+00
151	IHT000024	144.5726	146.9163	145.8851	6.1135e-01	4.3518e+00
152	IHT000025	179.5486	181.8923	180.7321	6.1941e-01	4.4807e+00
153	IHT000026	181.6932	184.2323	182.9081	6.5351e-01	4.4895e+00
154	IHT000027	154.8377	157.7674	156.2597	6.5796e-01	4.3877e+00
155	IHT000028	157.3505	159.8896	158.6045	6.6391e-01	4.3961e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.5965	182.9402	181.9286	6.4680e-01	4.4855e+00
157	IHT000030	184.1609	186.7000	185.4266	6.4264e-01	4.4998e+00
158	IHT000031	181.4228	183.9618	182.5751	5.8160e-01	4.4881e+00
159	IHT000032	183.6951	186.2342	184.9335	5.6305e-01	4.4978e+00
160	IHT000033	183.7177	186.2568	184.8896	5.6082e-01	4.4976e+00
161	IHT000034	161.5159	163.2737	162.3519	3.9467e-01	4.4097e+00
162	IHT000035	212.9808	215.1292	214.0472	4.4154e-01	4.6251e+00
163	IHT000036	159.5966	161.5497	160.5849	4.1649e-01	4.4033e+00

Test: Aug17_11

sum2

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Velocity 1 = 12.0128 (ft/sec) (+/- 2.0192 %)
Velocity 2 = 12.0076 (ft/sec) (+/- 1.7208 %)
Pressure drop = -0.2213 (psi)
Tsats in = 292.8964 (deg F) Tsats out = 293.2521 (deg F)
Phi inner = 297.9417 (kBtu/hr-ft2) (+/- 1.2360 %)
Phi outer = 299.2345 (kBtu/hr-ft2) (+/- 1.2634 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.6700	85.0931	84.8815	1.6555e-01	1.9001e+00
1	TRF000002	84.9996	85.4205	85.1258	1.2756e-01	1.9002e+00
2	TFM000001	86.1890	86.8184	86.5157	1.8555e-01	1.9002e+00
3	TIN000001	85.5240	86.2619	85.9541	1.3095e-01	1.9002e+00
4	TRV000001	87.1337	88.0771	87.5616	2.1953e-01	1.9002e+00
5	TSR000001	147.9027	150.5936	149.3736	5.8888e-01	1.9042e+00
6	TAO020136	141.6530	144.4747	142.7863	6.4382e-01	1.9036e+00
7	TAO050136	194.3227	197.1135	195.4676	7.1516e-01	1.9106e+00
8	TAO070136	188.4255	193.2074	190.1091	1.2211e+00	1.9097e+00
9	TAO080136	225.6393	227.0540	226.1649	3.5293e-01	1.9164e+00
10	TAO090136	233.2630	235.0525	234.1109	3.7764e-01	1.9181e+00
11	TAO100136	225.2100	227.2939	225.9268	4.3978e-01	1.9163e+00
12	TAO105136	231.3047	233.2925	232.0132	4.5816e-01	1.9176e+00
13	TAO110136	92.2501	92.9788	92.6501	1.6466e-01	1.9003e+00
14	TAO115136	235.2414	236.9389	236.2261	4.2184e-01	1.9185e+00
15	TAO120136	257.0656	258.4610	257.7060	3.5813e-01	1.9236e+00
16	TAO125136	234.8291	243.7455	239.0462	2.3375e+00	1.9192e+00
17	TAO130136	245.7242	247.2008	246.5544	3.4360e-01	1.9209e+00
18	TAO120048	109.8255	111.0627	110.5641	2.9775e-01	1.9011e+00
19	TAO130048	262.1474	263.6255	262.9972	2.7826e-01	1.9249e+00
20	TAO120224	252.6414	253.9475	253.3505	3.1350e-01	1.9225e+00
21	TAO130224	236.3223	237.9119	237.1230	3.9212e-01	1.9187e+00
22	TAO120312	253.3412	255.4864	254.4754	3.8598e-01	1.9228e+00
23	TAO130312	258.8445	259.9582	259.4164	3.0052e-01	1.9240e+00
24	TRT020000	190.5727	192.2280	191.1924	3.7828e-01	1.9099e+00
25	TRT070000	228.6714	229.9117	229.1752	2.8242e-01	1.9170e+00
26	TRT100000	259.5394	260.4667	259.9847	2.5051e-01	1.9242e+00
27	TRT120000	459.7141	459.9706	459.8508	7.7267e-02	1.9998e+00
28	TRT125000	96.3951	97.1207	96.7974	1.6574e-01	1.9005e+00
29	TRT130000	265.1841	266.6613	265.9966	3.2223e-01	1.9257e+00
30	EMPTY	39.3761	40.2940	39.7893	2.3642e-01	1.9011e+00
31	TAF050136	129.6044	131.6273	130.7335	4.8386e-01	1.9025e+00
32	TAF070136	148.2063	151.0925	149.5646	6.1825e-01	1.9043e+00
33	TAF080136	221.3581	243.6771	223.7691	2.9413e+00	1.9159e+00
34	TAF090136	92.7764	93.7171	93.1988	2.3583e-01	1.9004e+00
35	TAF100136	175.8267	178.6756	177.0653	5.6240e-01	1.9077e+00
36	TAF105136	181.0557	183.1875	182.0385	5.2240e-01	1.9084e+00
37	TAF110136	186.5361	188.9617	187.6812	5.4231e-01	1.9093e+00
38	TAF115136	192.0350	194.7446	193.0539	4.8483e-01	1.9102e+00
39	TAF120136	225.3795	231.0338	227.8129	1.5169e+00	1.9167e+00
40	TAF125136	201.4556	203.4637	202.3920	4.5769e-01	1.9118e+00
41	TAF130136	204.8716	206.4056	205.6124	3.2489e-01	1.9123e+00
42	TAF120048	207.1190	208.8579	207.7449	3.9540e-01	1.9127e+00
43	TAF130048	218.3283	220.7092	219.2431	5.0853e-01	1.9149e+00
44	TAF120224	193.1430	195.2733	193.9531	4.2163e-01	1.9103e+00
45	TAF130224	200.8592	202.7013	201.4644	3.8757e-01	1.9116e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1216	2.0358e-01	1.9010e+00
47	EMPTY	39.6057	40.5234	39.8122	1.4842e-01	1.9011e+00
48	TAI130048	250.7078	252.5734	251.7155	4.1648e-01	1.9221e+00
49	TAI130136	255.6949	256.6236	256.1592	2.3360e-01	1.9232e+00
50	TAI130224	263.1863	264.4868	263.7919	2.9995e-01	1.9251e+00
51	TAI130312	247.4031	248.8092	248.0070	3.1167e-01	1.9212e+00
52	TRR130000	145.8914	148.1892	146.9222	4.6604e-01	1.9040e+00
53	TSI000001	58.7775	59.5289	59.1637	2.0001e-01	1.9001e+00
54	TSI000002	84.6742	86.2495	85.4846	3.8301e-01	1.9002e+00
55	TSO000001	56.3400	57.0980	56.6998	1.7141e-01	1.9001e+00
56	TSO000002	73.2230	74.1802	73.6995	2.1930e-01	1.9000e+00
57	TAF020136	99.5924	103.0430	101.2085	7.1853e-01	1.9007e+00
58	TAF120312	201.9807	204.1982	202.8645	4.7606e-01	1.9119e+00
59	TAF130312	218.7820	221.3493	220.1136	5.8422e-01	1.9151e+00
60	EMPTY	3.4668	3.4961	3.4808	7.0455e-03	0.0000e+00
61	EMPTY	3.4570	3.4766	3.4668	4.8327e-03	0.0000e+00
62	EMPTY	3.4473	3.4570	3.4523	3.5513e-03	0.0000e+00
63	EMPTY	3.4424	3.4521	3.4475	3.4116e-03	0.0000e+00
64	EMPTY	1.6797	1.6846	1.6832	2.2146e-03	0.0000e+00
65	EMPTY	1.6943	1.6992	1.6987	1.4797e-03	0.0000e+00
66	EMPTY	1.7041	1.7139	1.7082	2.0598e-03	0.0000e+00
67	EMPTY	1.7188	1.7236	1.7206	2.3941e-03	0.0000e+00
68	EMPTY	1.7236	1.7334	1.7274	2.4741e-03	0.0000e+00
69	EMPTY	1.7383	1.7432	1.7387	1.3381e-03	0.0000e+00
70	EMPTY	1.7432	1.7529	1.7478	1.5314e-03	0.0000e+00
71	EMPTY	1.7627	1.7676	1.7631	1.3381e-03	0.0000e+00
72	EMPTY	1.7676	1.7725	1.7716	1.8950e-03	0.0000e+00
73	EMPTY	1.7822	1.7871	1.7842	2.4164e-03	0.0000e+00
74	EMPTY	1.7920	1.7969	1.7934	2.2146e-03	0.0000e+00
75	EMPTY	1.8018	1.8066	1.8055	2.1065e-03	0.0000e+00
76	EMPTY	1.8115	1.8164	1.8123	1.8082e-03	0.0000e+00
77	EMPTY	1.8213	1.8311	1.8262	9.8648e-04	0.0000e+00
78	EMPTY	1.8408	1.8457	1.8411	1.1714e-03	0.0000e+00
79	EMPTY	1.8555	1.8604	1.8596	1.8082e-03	0.0000e+00
80	PAN020136	-10.3671	10.9952	-0.6335	5.4737e+00	8.7000e-01
81	PAN050136	-17.8097	0.5009	-7.6351	5.2985e+00	1.6801e+00
82	PAN070136	-22.5944	6.9313	-6.4171	7.9282e+00	8.7015e-01
83	PAN080136	-13.8795	13.4337	-0.8866	7.4070e+00	8.7000e-01
84	PAN090136	-11.0390	21.0807	3.1287	7.3820e+00	8.7004e-01
85	PAN100136	-12.1908	10.2397	-1.0762	6.2072e+00	8.7000e-01
86	PAN105136	-7.7020	10.7611	0.3775	5.0964e+00	8.7000e-01
87	PAN110136	-7.2222	13.3009	-0.3420	4.7271e+00	8.7000e-01
88	PAN115136	-7.5597	5.2577	-1.9673	3.5405e+00	8.7001e-01
89	PAN120136	-6.8245	9.7312	-1.9158	4.4673e+00	8.7001e-01
90	PAN125136	-6.0323	22.7305	6.7179	4.9777e+00	8.7016e-01
91	PAN130136	-0.7342	17.1949	5.6974	3.5142e+00	8.7012e-01
92	PAN120048	2.4665	20.6245	9.8334	3.8131e+00	8.7035e-01
93	PAN130048	-8.1398	10.3996	2.1446	3.0698e+00	8.7002e-01
94	PAN120224	-12.2891	7.9288	-0.5948	4.4868e+00	8.7000e-01
95	PAN130224	-3.5108	12.2821	4.3170	3.7987e+00	8.7007e-01
96	PAN120312	-3.7309	15.7241	5.3527	4.6525e+00	8.7010e-01
97	PAN130312	-8.9204	15.2648	2.6244	3.7043e+00	8.7002e-01
98	PAB000136	59.8204	60.8274	60.2607	2.6287e-01	5.9925e-01
99	PAB100136	60.0061	60.8759	60.5554	2.0050e-01	5.9943e-01
100	PAB125136	60.3670	61.3283	60.5840	1.6897e-01	5.9945e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.2458	60.5886	59.9587	4.3166e-01	7.6483e-01
102	PRV000001	19.7186	19.8406	19.7283	3.3453e-02	7.5162e-01
103	PSR000001	59.2198	59.3419	59.3053	5.6508e-02	7.6451e-01
104	PFM000001	21.6909	22.4234	22.0736	1.7122e-01	5.0304e-01
105	PAN000136	-21.4705	7.8264	-6.1263	7.9331e+00	4.9200e+00
106	PFM000002	21.8470	22.2832	22.0544	9.7180e-02	2.0746e-01
107	EMPTY	0.0000	0.0098	0.0050	1.2041e-03	0.0000e+00
108	EMPTY	-10.0000	-4.3994	-6.3346	7.7476e-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	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	177.2198	178.0011	177.6182	1.6722e-01	1.3386e+00
113	VPW000002	207.3280	207.7186	207.5195	1.0052e-01	1.4854e+00
114	VPW000003	256.6068	256.9974	256.7943	1.1133e-01	1.7407e+00
115	VPW000004	182.4031	182.7937	182.5790	1.1334e-01	1.3624e+00
116	VPW000005	243.5584	244.1444	243.8632	1.4314e-01	1.6724e+00
117	VPW000006	258.2219	258.8079	258.5421	1.2944e-01	1.7500e+00
118	IPW000001	953.4946	963.2563	957.0869	2.2438e+00	1.1081e+01
119	IPW000002	2196.0037	2205.7600	2199.5154	2.1592e+00	1.9171e+01
120	IPW000003	2238.5999	2248.3499	2244.5276	2.6416e+00	1.9494e+01
121	IPW000004	650.7004	656.0715	653.8647	1.5066e+00	5.5392e+00
122	IPW000005	432.7429	433.7194	433.1334	3.2715e-01	3.9634e+00
123	IPW000006	445.3501	447.7915	446.6877	4.7114e-01	4.0562e+00
124	EMPTY	-0.0293	-0.0146	-0.0189	3.7745e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0134	3.0897e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0141	3.6433e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	3.5854e-03	0.0000e+00
128	IHT000001	219.3434	222.6637	220.8747	6.4157e-01	4.6571e+00
129	IHT000002	226.1268	228.8612	227.3964	5.9090e-01	4.6884e+00
130	IHT000003	228.2076	230.7467	229.3170	5.9770e-01	4.6977e+00
131	IHT000004	223.7643	226.4986	225.3620	6.3066e-01	4.6785e+00
132	IHT000005	221.4543	223.9934	222.9386	5.7045e-01	4.6669e+00
133	IHT000006	215.5987	217.9424	216.9541	5.7644e-01	4.6386e+00
134	IHT000007	225.3306	227.2837	226.3265	5.1183e-01	4.6832e+00
135	IHT000008	222.7389	224.6920	223.7936	5.2199e-01	4.6710e+00
136	IHT000009	222.9229	225.0714	223.9268	5.4392e-01	4.6717e+00
137	IHT000010	54.0377	56.3815	55.5221	5.6221e-01	4.1374e+00
138	IHT000011	223.2760	225.6197	224.6901	5.7934e-01	4.6753e+00
139	IHT000012	219.7191	221.6722	220.7464	5.4076e-01	4.6565e+00
140	IHT000013	158.9844	161.1328	160.0703	5.6931e-01	4.4014e+00
141	IHT000014	220.1397	222.8741	221.5303	6.1592e-01	4.6602e+00
142	IHT000015	163.7620	166.3011	165.1410	5.8449e-01	4.4201e+00
143	IHT000016	152.5841	154.7326	153.8536	5.2682e-01	4.3792e+00
144	IHT000017	182.6097	185.7347	184.2269	7.2656e-01	4.4949e+00
145	IHT000018	184.5027	187.4324	186.0184	7.4927e-01	4.5023e+00
146	IHT000019	178.8687	181.6031	180.2125	6.5154e-01	4.4786e+00
147	IHT000020	184.1271	186.8615	185.4981	6.8173e-01	4.5001e+00
148	IHT000021	-3.0086	0.1164	-1.4890	7.6238e-01	4.1000e+00
149	IHT000022	158.6801	161.0239	159.8013	5.7563e-01	4.4004e+00
150	IHT000023	180.1458	182.8801	181.3605	6.2675e-01	4.4832e+00
151	IHT000024	144.7679	147.3070	145.8461	6.1667e-01	4.3517e+00
152	IHT000025	179.7439	182.2829	180.7243	6.1319e-01	4.4806e+00
153	IHT000026	181.6932	184.4276	182.8573	5.9707e-01	4.4893e+00
154	IHT000027	155.2284	157.9627	156.2440	6.1384e-01	4.3876e+00
155	IHT000028	156.9599	160.0849	158.7177	7.3504e-01	4.3965e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.2058	183.3308	181.9559	6.7308e-01	4.4856e+00
157	IHT000030	183.5750	187.0906	185.4266	6.9277e-01	4.4998e+00
158	IHT000031	180.8368	183.9618	182.5986	6.8401e-01	4.4882e+00
159	IHT000032	183.4998	186.2342	184.9491	6.5565e-01	4.4978e+00
160	IHT000033	183.5224	186.0615	184.8779	6.5840e-01	4.4976e+00
161	IHT000034	161.1253	163.4690	162.4965	5.6426e-01	4.4103e+00
162	IHT000035	213.1761	215.3245	214.5472	5.3886e-01	4.6274e+00
163	IHT000036	159.2060	161.5497	160.5381	5.4916e-01	4.4031e+00

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Velocity 1 = 0.021000 (ft/sec)

Velocity 2 = 0.022699 (ft/sec)

Pressure Drop = 0.022200 (psi)

Tsat in = 0.406921 (deg F) Tsat out = 0.319397 (deg F)

Phi inner = 2.617981 (kBtu/hr-ft2) Phi outer = 0.172882 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0550	0.0648
1	TRF000002	0.0168	0.0197
2	TFM000001	0.2791	0.3216
3	TIN000001	0.2550	0.2958
4	TRV000001	0.7799	0.8828
5	TSR000001	1.8724	1.2694
6	TAO020136	6.2009	4.1620
7	TAO050136	0.1133	0.0580
8	TAO070136	0.3184	0.1672
9	TAO080136	0.2811	0.1241
10	TAO090136	0.2732	0.1166
11	TAO100136	0.3467	0.1532
12	TAO105136	0.1800	0.0775
13	TAO110136	3.3751	3.7806
14	TAO115136	0.1869	0.0791
15	TAO120136	0.1992	0.0772
16	TAO125136	0.1028	0.0430
17	TAO130136	0.3638	0.1473
18	TAO120048	3.8651	3.6224
19	TAO130048	0.4159	0.1579
20	TAO120224	0.2741	0.1081
21	TAO130224	0.0469	0.0198
22	TAO120312	0.3937	0.1545
23	TAO130312	0.2096	0.0807
24	TRT020000	0.0838	0.0438
25	TRT070000	0.0363	0.0158
26	TRT100000	0.1910	0.0734
27	TRT120000	0.0154	0.0034
28	TRT125000	5.4356	5.9495
29	TRT130000	0.0131	0.0049
30	EMPTY	0.0000	0.0000
31	TAF050136	0.2083	0.1591
32	TAF070136	0.1932	0.1290
33	TAF080136	0.0651	0.0291
34	TAF090136	3.5562	3.9671
35	TAF100136	0.3281	0.1850
36	TAF105136	0.2386	0.1309
37	TAF110136	0.2853	0.1518
38	TAF115136	0.0017	0.0009
39	TAF120136	0.2808	0.1234
40	TAF125136	0.2813	0.1388
41	TAF130136	0.4009	0.1946
42	TAF120048	0.2376	0.1142
43	TAF130048	0.0897	0.0409
44	TAF120224	0.0640	0.0330
45	TAF130224	0.2851	0.1413

#	Name	Abs Diff	%Diff
46	EMPTY	0.0046	0.0121
47	EMPTY	0.0597	0.1497
48	TAI130048	0.0020	0.0008
49	TAI130136	0.0611	0.0239
50	TAI130224	0.0167	0.0063
51	TAI130312	0.0730	0.0294
52	TRR130000	4.0866	2.8610
53	TSI000001	0.1181	0.1992
54	TSI000002	1.2915	1.5340
55	TSO000001	0.0412	0.0726
56	TSO000002	0.1337	0.1817
57	TAF020136	0.2070	0.2041
58	TAF120312	0.0251	0.0124
59	TAF130312	0.0244	0.0111
60	EMPTY	0.0015	0.0431
61	EMPTY	0.0014	0.0404
62	EMPTY	0.0010	0.0290
63	EMPTY	0.0016	0.0464
64	EMPTY	0.0011	0.0653
65	EMPTY	0.0005	0.0294
66	EMPTY	0.0006	0.0351
67	EMPTY	0.0010	0.0581
68	EMPTY	0.0011	0.0636
69	EMPTY	0.0005	0.0287
70	EMPTY	0.0002	0.0114
71	EMPTY	0.0014	0.0793
72	EMPTY	0.0009	0.0508
73	EMPTY	0.0021	0.1176
74	EMPTY	0.0024	0.1336
75	EMPTY	0.0010	0.0554
76	EMPTY	0.0022	0.1212
77	EMPTY	0.0009	0.0493
78	EMPTY	0.0022	0.1194
79	EMPTY	0.0010	0.0537
80	PAN020136	0.4410	229.0909
81	PAN050136	0.7813	9.2831
82	PAN070136	2.6428	70.0209
83	PAN080136	1.4115	61.4203
84	PAN090136	0.7995	34.3251
85	PAN100136	0.4714	77.9431
86	PAN105136	1.1276	150.3266
87	PAN110136	1.7166	83.3868
88	PAN115136	1.5747	401.0953
89	PAN120136	0.4974	20.6116
90	PAN125136	1.1704	14.8372
91	PAN130136	1.6220	39.7998
92	PAN120048	0.1847	1.8437
93	PAN130048	0.6591	44.3689
94	PAN120224	2.4491	132.0768
95	PAN130224	2.2965	113.6600
96	PAN120312	1.1093	26.1418
97	PAN130312	0.4318	14.1287
98	PAB000136	0.3699	0.6101
99	PAB100136	0.3159	0.5190
100	PAB125136	0.2912	0.4784

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#	Name	Abs Diff	%Diff
101	PIN000001	0.4004	0.6634
102	PRV000001	0.1856	0.9320
103	PSR000001	0.3759	0.6298
104	PFM000001	0.0787	0.3578
105	PAN000136	0.6134	11.1266
106	PFM000002	0.0853	0.3883
107	EMPTY	0.0001	2.0408
108	EMPTY	0.6598	11.6268
109	EMPTY	0.0001	2.0408
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0859	0.0484
113	VPW000002	0.0586	0.0282
114	VPW000003	0.0117	0.0046
115	VPW000004	0.0742	0.0407
116	VPW000005	0.6015	0.2473
117	VPW000006	0.0235	0.0091
118	IPW000001	21.8274	2.3338
119	IPW000002	21.3857	0.9629
120	IPW000003	20.4363	0.9023
121	IPW000004	2.8320	0.4350
122	IPW000005	0.0684	0.0158
123	IPW000006	3.1543	0.7012
124	EMPTY	0.0004	2.1622
125	EMPTY	0.0012	9.8361
126	EMPTY	0.0000	0.0000
127	EMPTY	0.0003	1.8072
128	IHT000001	0.2344	0.1060
129	IHT000002	0.2539	0.1115
130	IHT000003	0.2891	0.1259
131	IHT000004	0.2187	0.0970
132	IHT000005	0.2148	0.0963
133	IHT000006	0.2344	0.1079
134	IHT000007	0.4571	0.2016
135	IHT000008	0.2969	0.1325
136	IHT000009	0.3320	0.1480
137	IHT000010	0.1055	0.1904
138	IHT000011	0.2188	0.0975
139	IHT000012	0.0899	0.0407
140	IHT000013	0.1445	0.0904
141	IHT000014	0.6172	0.2794
142	IHT000015	0.1719	0.1042
143	IHT000016	0.2461	0.1602
144	IHT000017	0.2227	0.1207
145	IHT000018	0.0312	0.0168
146	IHT000019	0.1094	0.0607
147	IHT000020	0.0390	0.0210
148	IHT000021	0.0820	5.8280
149	IHT000022	0.0079	0.0049
150	IHT000023	0.0859	0.0473
151	IHT000024	0.0390	0.0267
152	IHT000025	0.0078	0.0043
153	IHT000026	0.0508	0.0278
154	IHT000027	0.0157	0.0100
155	IHT000028	0.1132	0.0714

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0273	0.0150
157	IHT000030	0.0000	0.0000
158	IHT000031	0.0235	0.0129
159	IHT000032	0.0156	0.0084
160	IHT000033	0.0117	0.0063
161	IHT000034	0.1446	0.0891
162	IHT000035	0.5000	0.2336
163	IHT000036	0.0468	0.0291

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Velocity 1 = 11.0716 (ft/sec) (+/- 2.1393 %)
Velocity 2 = 11.0727 (ft/sec) (+/- 1.7394 %)
Pressure drop = -0.8886 (psi)
Tsat in = 292.7501 (deg F) Tsat out = 293.6987 (deg F)
Phi inner = 300.2648 (kBtu/hr-ft2) (+/- 1.2351 %)
Phi outer = 299.1392 (kBtu/hr-ft2) (+/- 1.2600 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	84.4583	85.0931	84.8477	1.8317e-01	1.9001e+00
1	TRF0000002	84.7891	85.2100	85.0585	1.3474e-01	1.9002e+00
2	TFM0000001	85.1377	85.8744	85.4954	2.0934e-01	1.9002e+00
3	TIN0000001	84.4697	85.2083	84.9086	1.6967e-01	1.9001e+00
4	TRV0000001	86.1931	86.9260	86.5865	1.5497e-01	1.9002e+00
5	TSR0000001	145.8048	152.6811	149.8980	1.7955e+00	1.9043e+00
6	TAO020136	142.4603	144.9777	143.5401	5.6664e-01	1.9036e+00
7	TAO050136	200.5669	203.0599	201.6616	6.9961e-01	1.9116e+00
8	TAO070136	195.0575	199.8186	196.9944	1.3155e+00	1.9108e+00
9	TAO080136	234.1035	235.6032	234.7628	3.4072e-01	1.9182e+00
10	TAO090136	242.4698	243.8752	243.2233	3.5657e-01	1.9201e+00
11	TAO100136	234.5643	236.0714	235.3552	3.6012e-01	1.9183e+00
12	TAO105136	240.9345	242.2517	241.5635	3.4725e-01	1.9197e+00
13	TAO110136	92.5594	93.1865	92.9189	1.4778e-01	1.9004e+00
14	TAO115136	245.8683	247.9303	247.0757	3.7318e-01	1.9210e+00
15	TAO120136	269.5875	270.8814	270.3303	3.2506e-01	1.9268e+00
16	TAO125136	246.9245	260.9691	254.5216	3.3641e+00	1.9228e+00
17	TAO130136	258.1371	259.4261	258.7159	2.7210e-01	1.9238e+00
18	TAO120048	111.4739	112.6072	112.0220	2.5844e-01	1.9012e+00
19	TAO130048	275.4034	276.5975	276.0645	2.4303e-01	1.9284e+00
20	TAO120224	265.7385	266.8477	266.3340	2.7558e-01	1.9258e+00
21	TAO130224	247.7618	250.4485	249.1554	5.3512e-01	1.9215e+00
22	TAO120312	266.6361	268.5814	267.4814	4.2891e-01	1.9261e+00
23	TAO130312	271.8655	272.8787	272.3265	2.4549e-01	1.9274e+00
24	TRT020000	196.4061	197.6665	197.0151	2.6657e-01	1.9108e+00
25	TRT070000	237.6140	238.9415	238.1603	2.7395e-01	1.9190e+00
26	TRT100000	270.8979	272.2775	271.5269	3.4508e-01	1.9272e+00
27	TRT120000	459.6284	459.9706	459.8098	9.5625e-02	1.9997e+00
28	TRT125000	94.9416	95.8778	95.4210	1.9497e-01	1.9004e+00
29	TRT130000	277.5160	278.6173	278.0375	2.3275e-01	1.9289e+00
30	EMPTY	39.6057	40.0646	39.8168	1.8453e-01	1.9011e+00
31	TAF050136	132.2308	134.9555	133.6647	6.1084e-01	1.9027e+00
32	TAF070136	152.4807	155.4575	153.9737	7.2921e-01	1.9047e+00
33	TAF080136	231.7143	235.2752	233.5767	8.3900e-01	1.9179e+00
34	TAF090136	93.0900	94.1345	93.6913	2.6063e-01	1.9004e+00
35	TAF100136	182.9866	185.5274	184.0113	5.6166e-01	1.9087e+00
36	TAF105136	188.0208	190.9153	189.2684	6.6792e-01	1.9096e+00
37	TAF110136	194.4740	196.4023	195.1302	4.3456e-01	1.9105e+00
38	TAF115136	199.7590	202.2621	200.6992	4.2551e-01	1.9115e+00
39	TAF120136	240.2260	248.9955	243.9726	2.0656e+00	1.9203e+00
40	TAF125136	210.5115	211.8438	211.1311	3.4812e-01	1.9134e+00
41	TAF130136	214.0548	215.4860	214.7074	3.3577e-01	1.9141e+00
42	TAF120048	216.0827	217.8116	216.8627	3.7749e-01	1.9145e+00
43	TAF130048	228.3940	230.0962	229.2152	3.6745e-01	1.9170e+00
44	TAF120224	201.3516	202.8930	202.0568	4.2593e-01	1.9117e+00
45	TAF130224	209.5627	211.2974	210.2880	3.8406e-01	1.9132e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1675	2.1189e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8994	1.3146e-01	1.9011e+00
48	TAI130048	262.0613	264.2867	263.0892	4.9451e-01	1.9250e+00
49	TAI130136	265.7876	267.1739	266.4460	2.6640e-01	1.9258e+00
50	TAI130224	274.1207	275.5987	274.7858	3.5604e-01	1.9280e+00
51	TAI130312	258.1462	260.1018	259.0742	3.8127e-01	1.9239e+00
52	TRR130000	149.3828	151.5773	150.2056	5.2178e-01	1.9043e+00
53	TSI000001	59.2054	60.1713	59.7295	1.9604e-01	1.9001e+00
54	TSI000002	85.9330	87.5077	86.6763	3.2637e-01	1.9002e+00
55	TSO000001	56.1239	57.2062	56.7346	2.2483e-01	1.9001e+00
56	TSO000002	74.1792	75.0295	74.7190	1.9660e-01	1.9000e+00
57	TAF020136	100.2217	104.5046	101.8692	9.0576e-01	1.9007e+00
58	TAF120312	210.1579	213.2246	211.4274	6.1595e-01	1.9134e+00
59	TAF130312	229.2128	231.6707	230.3479	5.5360e-01	1.9172e+00
60	EMPTY	3.7305	3.7549	3.7430	5.5066e-03	0.0000e+00
61	EMPTY	3.7207	3.7354	3.7271	3.8762e-03	0.0000e+00
62	EMPTY	3.7061	3.7207	3.7114	3.1583e-03	0.0000e+00
63	EMPTY	3.7012	3.7109	3.7055	2.7267e-03	0.0000e+00
64	EMPTY	1.7920	1.7969	1.7965	1.3381e-03	0.0000e+00
65	EMPTY	1.8066	1.8115	1.8111	1.3381e-03	0.0000e+00
66	EMPTY	1.8164	1.8213	1.8201	2.1065e-03	0.0000e+00
67	EMPTY	1.8262	1.8359	1.8312	1.5566e-03	0.0000e+00
68	EMPTY	1.8359	1.8408	1.8370	2.0432e-03	0.0000e+00
69	EMPTY	1.8457	1.8506	1.8492	2.2146e-03	0.0000e+00
70	EMPTY	1.8555	1.8604	1.8556	6.9053e-04	0.0000e+00
71	EMPTY	1.8701	1.8750	1.8719	2.3675e-03	0.0000e+00
72	EMPTY	1.8750	1.8799	1.8797	9.6655e-04	0.0000e+00
73	EMPTY	1.8896	1.8945	1.8915	2.3941e-03	0.0000e+00
74	EMPTY	1.8945	1.9043	1.9005	2.2689e-03	0.0000e+00
75	EMPTY	1.9092	1.9141	1.9124	2.3365e-03	0.0000e+00
76	EMPTY	1.9141	1.9238	1.9190	1.5566e-03	0.0000e+00
77	EMPTY	1.9287	1.9336	1.9325	2.0432e-03	0.0000e+00
78	EMPTY	1.9434	1.9482	1.9481	6.9053e-04	0.0000e+00
79	EMPTY	1.9629	1.9678	1.9630	6.9053e-04	0.0000e+00
80	PAN020136	-16.9283	6.6465	-5.1928	5.2474e+00	8.7010e-01
81	PAN050136	-23.1503	-0.1095	-12.4111	6.3463e+00	1.6803e+00
82	PAN070136	-24.2729	4.7188	-7.2792	7.7350e+00	8.7019e-01
83	PAN080136	-13.8795	11.9079	-3.1480	6.5308e+00	8.7004e-01
84	PAN090136	-13.0990	12.5358	-1.7281	6.1675e+00	8.7001e-01
85	PAN100136	-12.1908	3.8310	-4.2333	5.1538e+00	8.7006e-01
86	PAN105136	-7.6257	11.2189	-0.0970	4.4343e+00	8.7000e-01
87	PAN110136	-4.2467	10.7832	2.6640	3.8939e+00	8.7003e-01
88	PAN115136	-7.6359	8.6910	-0.7603	3.9777e+00	8.7000e-01
89	PAN120136	-6.8245	5.8403	-0.3106	3.3620e+00	8.7000e-01
90	PAN125136	-6.0323	25.6297	6.1930	6.5448e+00	8.7014e-01
91	PAN130136	-2.4889	16.0505	2.2687	3.3240e+00	8.7002e-01
92	PAN120048	0.0251	34.4337	7.7338	8.1452e+00	8.7021e-01
93	PAN130048	-3.4859	2.9991	0.6310	1.6165e+00	8.7000e-01
94	PAN120224	-9.1610	16.9315	6.6410	4.9676e+00	8.7016e-01
95	PAN130224	-13.9630	13.8079	1.4712	4.3181e+00	8.7001e-01
96	PAN120312	0.6179	16.8685	8.7920	4.3620e+00	8.7028e-01
97	PAN130312	-2.4354	3.7444	1.1199	1.5427e+00	8.7000e-01
98	PAB000136	55.0830	60.5070	60.1280	2.3140e-01	5.9916e-01
99	PAB100136	60.7843	61.4710	61.1560	1.4787e-01	5.9981e-01
100	PAB125136	60.7332	61.6488	60.9914	1.4079e-01	5.9971e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.0017	60.4665	59.8879	4.4720e-01	7.6480e-01
102	PRV0000001	19.8406	19.9627	19.8895	6.0409e-02	7.5165e-01
103	PSR0000001	59.8302	60.0743	59.9986	7.3532e-02	7.6485e-01
104	PFM0000001	18.4866	19.0359	18.7283	1.1515e-01	5.0219e-01
105	PAN000136	-38.8655	-11.8575	-24.6016	6.8333e+00	4.9204e+00
106	PFM0000002	18.5917	18.8769	18.7320	6.5275e-02	2.0541e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-8.7695	-4.1650	-6.6483	7.9099e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0043	1.8821e-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	177.4151	178.0011	177.6104	1.5282e-01	1.3386e+00
113	VPW0000002	207.5233	207.7186	207.6054	9.7377e-02	1.4858e+00
114	VPW0000003	256.6068	256.9974	256.8685	1.0145e-01	1.7411e+00
115	VPW0000004	182.4031	182.9890	182.6298	1.2701e-01	1.3627e+00
116	VPW0000005	243.1678	243.5584	243.3671	1.2780e-01	1.6698e+00
117	VPW0000006	258.2219	258.8079	258.5265	1.4848e-01	1.7499e+00
118	IPW0000001	930.0665	945.6852	938.6179	4.4780e+00	1.0982e+01
119	IPW0000002	2213.5652	2221.3704	2216.6873	2.1949e+00	1.9294e+01
120	IPW0000003	2258.0999	2265.8999	2262.3518	1.9175e+00	1.9622e+01
121	IPW0000004	650.2122	652.6536	651.1987	7.0786e-01	5.5196e+00
122	IPW0000005	431.7664	433.7194	432.8502	4.3322e-01	3.9615e+00
123	IPW0000006	448.2798	450.2329	449.2267	4.5645e-01	4.0737e+00
124	EMPTY	-0.0244	-0.0098	-0.0191	3.6699e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0124	2.9938e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0141	3.6433e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.2718e-03	0.0000e+00
128	IHT0000001	219.7341	222.4684	221.0856	5.4937e-01	4.6581e+00
129	IHT0000002	226.3221	228.6658	227.5292	5.1401e-01	4.6890e+00
130	IHT0000003	228.2076	230.7467	229.4577	5.3959e-01	4.6984e+00
131	IHT0000004	224.1549	226.8893	225.4362	5.8681e-01	4.6789e+00
132	IHT0000005	221.8449	224.3840	223.1104	5.3994e-01	4.6677e+00
133	IHT0000006	215.5987	218.3331	217.0244	5.4712e-01	4.6390e+00
134	IHT0000007	224.9399	227.8696	226.4476	5.8798e-01	4.6838e+00
135	IHT0000008	222.5436	225.0826	223.8405	5.4356e-01	4.6712e+00
136	IHT0000009	222.5323	225.2667	224.0205	6.0217e-01	4.6721e+00
137	IHT0000010	54.2330	56.3815	55.3932	4.8554e-01	4.1373e+00
138	IHT0000011	223.0807	225.0338	224.3112	4.6059e-01	4.6735e+00
139	IHT0000012	219.3284	221.2816	220.3909	4.7377e-01	4.6548e+00
140	IHT0000013	158.7891	161.1328	159.8477	5.1159e-01	4.4006e+00
141	IHT0000014	219.7491	221.8976	220.7764	5.2171e-01	4.6566e+00
142	IHT0000015	163.7620	165.9104	164.9222	5.2111e-01	4.4193e+00
143	IHT0000016	152.1935	154.5372	153.5567	5.0608e-01	4.3781e+00
144	IHT0000017	182.6097	185.7347	184.3011	6.6919e-01	4.4952e+00
145	IHT0000018	184.6980	187.2371	185.9208	6.3969e-01	4.5019e+00
146	IHT0000019	179.0640	181.7984	180.1187	6.0875e-01	4.4782e+00
147	IHT0000020	184.5177	187.0568	185.4239	5.9551e-01	4.4998e+00
148	IHT0000021	-2.6179	0.5071	-1.4812	7.2726e-01	4.1000e+00
149	IHT0000022	158.4848	161.4145	159.7231	6.2217e-01	4.4001e+00
150	IHT0000023	180.1458	183.0754	181.3566	6.4235e-01	4.4832e+00
151	IHT0000024	144.5726	147.5023	145.7797	6.2849e-01	4.3515e+00
152	IHT0000025	179.3532	182.4782	180.6461	6.5660e-01	4.4803e+00
153	IHT0000026	181.4979	184.0370	182.8339	6.5001e-01	4.4892e+00
154	IHT0000027	154.8377	157.5721	156.2167	6.6779e-01	4.3875e+00
155	IHT0000028	157.1552	160.2802	158.5420	7.3531e-01	4.3959e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.2058	183.3308	181.8427	6.8333e-01	4.4852e+00
157	IHT000030	183.9656	186.7000	185.3290	6.9080e-01	4.4994e+00
158	IHT000031	181.2275	183.5712	182.4892	6.7221e-01	4.4878e+00
159	IHT000032	183.6951	186.0389	184.8866	7.2033e-01	4.4976e+00
160	IHT000033	183.5224	186.0615	184.8232	7.2931e-01	4.4973e+00
161	IHT000034	161.1253	163.2737	162.4183	5.9437e-01	4.4100e+00
162	IHT000035	212.7855	214.9339	213.9847	6.0619e-01	4.6248e+00
163	IHT000036	159.5966	161.5497	160.5302	5.6261e-01	4.4031e+00

Velocity 1 = 11.0503 (ft/sec) (+/- 2.1425 %)
Velocity 2 = 11.0525 (ft/sec) (+/- 1.7399 %)
Pressure drop = -0.8410 (psi)
Tsats in = 292.8177 (deg F) Tsats out = 293.7198 (deg F)
Phi inner = 299.5728 (kBtu/hr-ft2) (+/- 1.2354 %)
Phi outer = 299.2541 (kBtu/hr-ft2) (+/- 1.2638 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	84.4583	85.0931	84.7461	1.6972e-01	1.9001e+00
1	TRF0000002	84.7891	85.2100	84.9532	1.3641e-01	1.9002e+00
2	TFM0000001	85.2425	86.0833	85.7154	1.9716e-01	1.9002e+00
3	TIN0000001	84.7863	85.6297	85.1342	1.7077e-01	1.9002e+00
4	TRV0000001	86.2952	87.3449	86.8348	2.0311e-01	1.9002e+00
5	TSR0000001	150.5906	154.1704	152.0374	9.1638e-01	1.9045e+00
6	TAO020136	147.2904	150.7023	149.1596	7.3947e-01	1.9042e+00
7	TAO050136	200.5674	203.3463	201.8964	6.7765e-01	1.9117e+00
8	TAO070136	195.1557	200.5944	197.2026	1.3149e+00	1.9109e+00
9	TAO080136	234.3824	235.5084	234.9888	2.7535e-01	1.9183e+00
10	TAO090136	242.7511	244.5295	243.4493	3.8928e-01	1.9202e+00
11	TAO100136	234.5635	236.6355	235.6465	4.6833e-01	1.9184e+00
12	TAO105136	241.4052	242.9108	241.9641	3.1603e-01	1.9198e+00
13	TAO110136	95.7659	96.3914	96.0849	1.4292e-01	1.9005e+00
14	TAO115136	246.7118	248.4905	247.5606	3.9798e-01	1.9211e+00
15	TAO120136	269.7718	271.3431	270.7789	2.9996e-01	1.9270e+00
16	TAO125136	250.8434	267.5325	259.1787	4.1277e+00	1.9240e+00
17	TAO130136	258.5966	259.8825	259.2729	3.2361e-01	1.9240e+00
18	TAO120048	114.6613	115.7919	115.1565	3.1033e-01	1.9014e+00
19	TAO130048	276.0444	276.7791	276.4361	1.8786e-01	1.9285e+00
20	TAO120224	265.8297	267.4036	266.6315	3.1809e-01	1.9259e+00
21	TAO130224	248.3177	250.1699	249.2376	4.5720e-01	1.9215e+00
22	TAO120312	267.0996	268.3959	267.7755	2.9934e-01	1.9262e+00
23	TAO130312	272.0491	273.0630	272.5743	2.5526e-01	1.9274e+00
24	TRT020000	196.3092	197.8603	197.1217	3.7929e-01	1.9109e+00
25	TRT070000	237.8040	238.9423	238.3522	2.8236e-01	1.9190e+00
26	TRT100000	271.0808	272.5530	271.6643	3.0543e-01	1.9272e+00
27	TRT120000	459.5432	459.8854	459.7261	8.4635e-02	1.9997e+00
28	TRT125000	99.1856	100.0165	99.6404	1.8367e-01	1.9006e+00
29	TRT130000	277.8817	278.8011	278.3468	2.5852e-01	1.9290e+00
30	EMPTY	39.3761	40.2940	39.7755	2.4008e-01	1.9011e+00
31	TAF050136	133.0376	135.4586	133.8879	5.6517e-01	1.9027e+00
32	TAF070136	152.3808	155.8513	154.1294	7.4654e-01	1.9048e+00
33	TAF080136	231.7118	285.3359	236.4266	9.5471e+00	1.9186e+00
34	TAF090136	96.4250	97.4666	96.9361	2.6294e-01	1.9005e+00
35	TAF100136	183.5732	185.7229	184.4588	5.2627e-01	1.9088e+00
36	TAF105136	188.6002	190.8159	189.5122	5.4460e-01	1.9096e+00
37	TAF110136	194.4727	196.5951	195.5020	4.5704e-01	1.9106e+00
38	TAF115136	200.4326	202.0683	201.1279	3.4958e-01	1.9115e+00
39	TAF120136	241.0685	249.0860	245.0188	1.8992e+00	1.9205e+00
40	TAF125136	210.6994	212.5075	211.5917	3.8553e-01	1.9135e+00
41	TAF130136	214.1499	216.2465	215.2197	4.5725e-01	1.9142e+00
42	TAF120048	216.3711	218.0036	217.2146	3.7073e-01	1.9145e+00
43	TAF130048	228.8670	230.0962	229.5194	2.7301e-01	1.9171e+00
44	TAF120224	201.1582	202.9882	202.2239	3.3241e-01	1.9117e+00
45	TAF130224	209.5632	211.4905	210.5368	4.5825e-01	1.9133e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0664	2.1413e-01	1.9010e+00
47	EMPTY	39.3761	40.7527	39.8811	2.2231e-01	1.9011e+00
48	TAI130048	262.7111	264.6573	263.6135	4.2653e-01	1.9251e+00
49	TAI130136	266.0649	267.7258	267.0858	2.7060e-01	1.9260e+00
50	TAI130224	274.5822	276.1518	275.2013	3.7130e-01	1.9282e+00
51	TAI130312	258.1465	260.1018	259.4852	4.0891e-01	1.9240e+00
52	TRR130000	148.1873	149.6846	148.9552	3.2763e-01	1.9042e+00
53	TSI000001	59.2054	60.1713	59.7054	2.1426e-01	1.9001e+00
54	TSI000002	84.3573	85.5147	84.8729	2.8961e-01	1.9001e+00
55	TSO000001	56.3406	57.2063	56.7501	2.1121e-01	1.9001e+00
56	TSO000002	74.1792	75.1351	74.5977	2.2140e-01	1.9000e+00
57	TAF020136	100.2225	104.9217	102.1559	8.9882e-01	1.9007e+00
58	TAF120312	210.7329	213.5119	211.8622	5.3548e-01	1.9135e+00
59	TAF130312	229.5922	231.7639	230.7081	5.7303e-01	1.9173e+00
60	EMPTY	3.7451	3.7646	3.7550	5.7088e-03	0.0000e+00
61	EMPTY	3.7305	3.7451	3.7395	3.7382e-03	0.0000e+00
62	EMPTY	3.7158	3.7305	3.7240	3.9998e-03	0.0000e+00
63	EMPTY	3.7061	3.7256	3.7173	3.4527e-03	0.0000e+00
64	EMPTY	1.7969	1.8018	1.8012	1.6028e-03	0.0000e+00
65	EMPTY	1.8115	1.8213	1.8160	1.6624e-03	0.0000e+00
66	EMPTY	1.8213	1.8262	1.8242	2.4164e-03	0.0000e+00
67	EMPTY	1.8311	1.8408	1.8359	1.3951e-03	0.0000e+00
68	EMPTY	1.8408	1.8457	1.8415	1.7115e-03	0.0000e+00
69	EMPTY	1.8506	1.8555	1.8536	2.3941e-03	0.0000e+00
70	EMPTY	1.8604	1.8604	1.8604	0.0000e+00	0.0000e+00
71	EMPTY	1.8701	1.8799	1.8765	2.4662e-03	0.0000e+00
72	EMPTY	1.8799	1.8848	1.8846	9.6655e-04	0.0000e+00
73	EMPTY	1.8945	1.8994	1.8958	2.1635e-03	0.0000e+00
74	EMPTY	1.9043	1.9092	1.9048	1.4797e-03	0.0000e+00
75	EMPTY	1.9141	1.9189	1.9153	2.1635e-03	0.0000e+00
76	EMPTY	1.9189	1.9238	1.9235	1.1714e-03	0.0000e+00
77	EMPTY	1.9336	1.9385	1.9354	2.3675e-03	0.0000e+00
78	EMPTY	1.9482	1.9531	1.9514	2.3675e-03	0.0000e+00
79	EMPTY	1.9678	1.9727	1.9679	6.9053e-04	0.0000e+00
80	PAN020136	-14.4869	9.3931	-4.3200	5.9027e+00	8.7007e-01
81	PAN050136	-25.1339	1.5690	-13.3572	8.3249e+00	1.6803e+00
82	PAN070136	-24.0440	7.0839	-7.8239	8.2055e+00	8.7022e-01
83	PAN080136	-13.8032	9.3902	-3.7492	5.7949e+00	8.7005e-01
84	PAN090136	-12.4886	15.2061	0.3623	5.3690e+00	8.7000e-01
85	PAN100136	-12.1908	8.2560	-3.9632	5.7437e+00	8.7006e-01
86	PAN105136	-7.7020	8.4723	-2.3233	4.4134e+00	8.7002e-01
87	PAN110136	-5.1622	16.2001	3.3003	5.0733e+00	8.7004e-01
88	PAN115136	-7.5597	6.9362	0.4253	3.7356e+00	8.7000e-01
89	PAN120136	-6.8245	14.1563	0.8155	5.4876e+00	8.7000e-01
90	PAN125136	-1.4547	18.9158	5.3217	4.3514e+00	8.7010e-01
91	PAN130136	-6.9903	6.7426	2.2108	2.5564e+00	8.7002e-01
92	PAN120048	-0.5853	22.6081	6.1408	4.6532e+00	8.7014e-01
93	PAN130048	-3.5621	4.9828	0.1671	1.9715e+00	8.7000e-01
94	PAN120224	-5.8041	19.4492	6.0535	4.7533e+00	8.7013e-01
95	PAN130224	-6.1048	6.6363	1.3217	2.6887e+00	8.7001e-01
96	PAN120312	2.0675	19.0047	7.7620	3.6286e+00	8.7022e-01
97	PAN130312	-3.1221	4.0495	0.7002	1.6941e+00	8.7000e-01
98	PAB000136	59.7288	60.7359	60.1893	2.4909e-01	5.9920e-01
99	PAB100136	60.6928	61.5625	61.1606	1.8130e-01	5.9982e-01
100	PAB125136	60.7790	61.2826	61.0107	9.5400e-02	5.9972e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	58.8796	60.7106	59.9441	4.4735e-01	7.6483e-01
102	PRV000001	19.7186	19.8406	19.7357	4.2787e-02	7.5162e-01
103	PSR000001	59.8302	60.1964	60.0352	6.7269e-02	7.6487e-01
104	PFM000001	18.3035	19.0359	18.6550	1.4370e-01	5.0217e-01
105	PAN000136	-43.4432	-4.0755	-23.2833	7.8653e+00	4.9203e+00
106	PFM000002	18.5078	18.8769	18.6625	8.0458e-02	2.0537e-01
107	EMPTY	0.0049	0.0098	0.0052	1.1714e-03	0.0000e+00
108	EMPTY	-9.8145	-5.0830	-6.9828	9.3770e-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	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	177.4151	178.0011	177.6924	1.3141e-01	1.3389e+00
113	VPW000002	207.3280	207.7186	207.5702	9.3043e-02	1.4857e+00
114	VPW000003	256.6068	257.1927	256.8919	1.1975e-01	1.7412e+00
115	VPW000004	182.4031	182.7937	182.6063	1.2453e-01	1.3625e+00
116	VPW000005	243.3631	243.7538	243.4492	1.0559e-01	1.6702e+00
117	VPW000006	258.2219	258.8079	258.4249	1.0410e-01	1.7494e+00
118	IPW000001	941.7806	947.6376	944.8655	1.4271e+00	1.1015e+01
119	IPW000002	2207.7114	2219.4189	2213.4878	3.5251e+00	1.9271e+01
120	IPW000003	2254.2000	2261.9998	2257.9443	1.9235e+00	1.9591e+01
121	IPW000004	650.7004	654.1184	652.2241	1.2886e+00	5.5271e+00
122	IPW000005	430.7900	432.2547	431.5124	3.4509e-01	3.9523e+00
123	IPW000006	446.3267	448.2798	447.3615	4.1432e-01	4.0608e+00
124	EMPTY	-0.0244	-0.0098	-0.0180	3.7486e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0125	2.8179e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0142	3.4527e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0176	3.5568e-03	0.0000e+00
128	IHT000001	219.5387	222.2731	221.0661	6.0963e-01	4.6580e+00
129	IHT000002	225.9315	228.4705	227.4823	5.9111e-01	4.6888e+00
130	IHT000003	227.8170	230.3561	229.3522	5.6773e-01	4.6979e+00
131	IHT000004	223.5690	226.4986	225.3190	6.1125e-01	4.6783e+00
132	IHT000005	221.2590	223.7981	222.9425	5.3509e-01	4.6669e+00
133	IHT000006	215.2081	218.1378	216.9932	5.2794e-01	4.6388e+00
134	IHT000007	224.5493	227.8696	226.4203	5.4260e-01	4.6837e+00
135	IHT000008	222.1529	225.2779	223.8092	5.2828e-01	4.6711e+00
136	IHT000009	222.7276	225.4620	223.9736	5.3944e-01	4.6719e+00
137	IHT000010	53.8424	56.5768	55.4166	5.8449e-01	4.1373e+00
138	IHT000011	222.6900	225.6197	224.2682	6.0340e-01	4.6733e+00
139	IHT000012	218.9378	222.0628	220.3831	6.3011e-01	4.6548e+00
140	IHT000013	158.5938	161.1328	159.8281	5.3589e-01	4.4005e+00
141	IHT000014	219.7491	222.2882	220.7608	5.3041e-01	4.6566e+00
142	IHT000015	163.5667	166.3011	164.9105	5.5893e-01	4.4192e+00
143	IHT000016	152.5841	154.9279	153.6388	5.1145e-01	4.3784e+00
144	IHT000017	182.8050	185.7347	184.2269	6.8122e-01	4.4949e+00
145	IHT000018	184.5027	187.2371	185.9169	6.8295e-01	4.5018e+00
146	IHT000019	178.8687	181.2124	180.0875	6.5264e-01	4.4781e+00
147	IHT000020	184.3224	186.6662	185.3575	6.4748e-01	4.4995e+00
148	IHT000021	-2.8132	-0.0789	-1.5984	7.8749e-01	4.1000e+00
149	IHT000022	158.6601	161.0239	159.6919	6.4439e-01	4.4000e+00
150	IHT000023	180.1458	182.4895	181.2198	6.0906e-01	4.4826e+00
151	IHT000024	144.5726	146.9163	145.6430	6.0004e-01	4.3510e+00
152	IHT000025	179.3532	181.6970	180.5524	6.1385e-01	4.4799e+00
153	IHT000026	181.4979	183.8417	182.6815	6.3554e-01	4.4886e+00
154	IHT000027	154.8377	157.9627	156.1112	7.0833e-01	4.3871e+00
155	IHT000028	157.1552	160.2802	158.7177	7.0587e-01	4.3965e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.4012	183.5262	181.8973	7.2288e-01	4.4854e+00
157	IHT000030	183.9656	186.7000	185.3251	6.5312e-01	4.4994e+00
158	IHT000031	181.2275	183.7665	182.4697	6.5763e-01	4.4877e+00
159	IHT000032	183.4998	186.0389	184.8632	6.8628e-01	4.4975e+00
160	IHT000033	183.3271	186.0615	184.7842	6.8027e-01	4.4972e+00
161	IHT000034	161.3206	163.6644	162.4457	5.3751e-01	4.4101e+00
162	IHT000035	212.7855	215.1292	214.0745	5.8394e-01	4.6252e+00
163	IHT000036	159.2060	161.5497	160.4756	5.3996e-01	4.4029e+00

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Velocity 1 = 0.021300 (ft/sec)

Velocity 2 = 0.020200 (ft/sec)

Pressure Drop = 0.047600 (psi)

Tsat in = 0.067596 (deg F) Tsat out = 0.021088 (deg F)

Phi inner = 0.691986 (kBtu/hr-ft2) Phi outer = 0.114899 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1016	0.1197
1	TRF000002	0.1053	0.1238
2	TFM000001	0.2200	0.2573
3	TIN000001	0.2256	0.2657
4	TRV000001	0.2483	0.2868
5	TSR000001	2.1394	1.4272
6	TAO020136	5.6195	3.9149
7	TAO050136	0.2348	0.1164
8	TAO070136	0.2082	0.1057
9	TAO080136	0.2260	0.0963
10	TAO090136	0.2260	0.0929
11	TAO100136	0.2913	0.1238
12	TAO105136	0.4006	0.1658
13	TAO110136	3.1660	3.4073
14	TAO115136	0.4849	0.1963
15	TAO120136	0.4486	0.1659
16	TAO125136	4.6571	1.8297
17	TAO130136	0.5570	0.2153
18	TAO120048	3.1345	2.7981
19	TAO130048	0.3716	0.1346
20	TAO120224	0.2975	0.1117
21	TAO130224	0.0822	0.0330
22	TAO120312	0.2941	0.1100
23	TAO130312	0.2478	0.0910
24	TRT020000	0.1066	0.0541
25	TRT070000	0.1919	0.0806
26	TRT100000	0.1374	0.0506
27	TRT120000	0.0837	0.0182
28	TRT125000	4.2194	4.4219
29	TRT130000	0.3093	0.1112
30	EMPTY	0.0413	0.1037
31	TAF050136	0.2232	0.1670
32	TAF070136	0.1557	0.1011
33	TAF080136	2.8499	1.2201
34	TAF090136	3.2448	3.4633
35	TAF100136	0.4475	0.2432
36	TAF105136	0.2438	0.1288
37	TAF110136	0.3718	0.1905
38	TAF115136	0.4287	0.2136
39	TAF120136	1.0462	0.4288
40	TAF125136	0.4606	0.2182
41	TAF130136	0.5123	0.2386
42	TAF1200.3	0.3519	0.1623
43	TAF130048	0.3042	0.1327
44	TAF120224	0.1671	0.0827
45	TAF130224	0.2488	0.1183

#	Name	Abs Diff	%Diff
46	EMPTY	0.1011	0.2649
47	EMPTY	0.0183	0.0459
48	TAI130048	0.5243	0.1993
49	TAI130136	0.6398	0.2401
50	TAI130224	0.4155	0.1512
51	TAI130312	0.4110	0.1586
52	TRR130000	1.2504	0.8325
53	TSI000001	0.0241	0.0404
54	TSI000002	1.8034	2.0806
55	TSO000001	0.0155	0.0273
56	TSO000002	0.1213	0.1623
57	TAF020136	0.2867	0.2814
58	TAF120312	0.4348	0.2056
59	TAF130312	0.3602	0.1564
60	EMPTY	0.0120	0.3206
61	EMPTY	0.0124	0.3327
62	EMPTY	0.0126	0.3395
63	EMPTY	0.0118	0.3184
64	EMPTY	0.0047	0.2616
65	EMPTY	0.0049	0.2706
66	EMPTY	0.0041	0.2253
67	EMPTY	0.0047	0.2567
68	EMPTY	0.0045	0.2450
69	EMPTY	0.0044	0.2379
70	EMPTY	0.0048	0.2587
71	EMPTY	0.0046	0.2457
72	EMPTY	0.0049	0.2607
73	EMPTY	0.0043	0.2273
74	EMPTY	0.0043	0.2263
75	EMPTY	0.0029	0.1516
76	EMPTY	0.0045	0.2345
77	EMPTY	0.0029	0.1501
78	EMPTY	0.0033	0.1694
79	EMPTY	0.0049	0.2496
80	PAN020136	0.8728	16.8079
81	PAN050136	0.9461	7.6230
82	PAN070136	0.5447	7.4830
83	PAN080136	0.6012	19.0978
84	PAN090136	2.0904	120.9652
85	PAN100136	0.2701	6.3804
86	PAN105136	2.2263	2295.1543
87	PAN110136	0.6363	23.8851
88	PAN115136	1.1856	155.9385
89	PAN120136	1.1261	362.5563
90	PAN125136	0.8713	14.0691
91	PAN130136	0.0579	2.5521
92	PAN120048	1.5930	20.5979
93	PAN130048	0.4639	73.5182
94	PAN120224	0.5875	8.8466
95	PAN130224	0.1495	10.1618
96	PAN120312	1.0300	11.7152
97	PAN130312	0.4197	37.4766
98	PAB000136	0.0613	0.1020
99	PAB100136	0.0046	0.0075
100	PAB125136	0.0193	0.0316

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0562	0.0938
102	PRV000001	0.1538	0.7733
103	PSR000001	0.0366	0.0610
104	PFM000001	0.0733	0.3914
105	PAN000136	1.3183	5.3586
106	PFM000002	0.0695	0.3710
107	EMPTY	0.0003	6.1224
108	EMPTY	0.3345	5.0314
109	EMPTY	0.0006	13.9535
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	50.0000
112	VPW000001	0.0820	0.0462
113	VPW000002	0.0352	0.0169
114	VPW000003	0.0234	0.0091
115	VPW000004	0.0235	0.0129
116	VPW000005	0.0821	0.0337
117	VPW000006	0.1016	0.0393
118	IPW000001	6.2476	0.6656
119	IPW000002	3.1995	0.1443
120	IPW000003	4.4075	0.1948
121	IPW000004	1.0254	0.1575
122	IPW000005	1.3378	0.3091
123	IPW000006	1.8652	0.4152
124	EMPTY	0.0011	5.7592
125	EMPTY	0.0001	0.8065
126	EMPTY	0.0001	0.7092
127	EMPTY	0.0010	6.0241
128	IHT000001	0.0195	0.0088
129	IHT000002	0.0469	0.0206
130	IHT000003	0.1055	0.0460
131	IHT000004	0.1172	0.0520
132	IHT000005	0.1679	0.0753
133	IHT000006	0.0312	0.0144
134	IHT000007	0.0273	0.0121
135	IHT000008	0.0313	0.0140
136	IHT000009	0.0469	0.0209
137	IHT000010	0.0234	0.0422
138	IHT000011	0.0430	0.0192
139	IHT000012	0.0078	0.0035
140	IHT000013	0.0196	0.0123
141	IHT000014	0.0156	0.0071
142	IHT000015	0.0117	0.0071
143	IHT000016	0.0821	0.0535
144	IHT000017	0.0742	0.0403
145	IHT000018	0.0039	0.0021
146	IHT000019	0.0312	0.0173
147	IHT000020	0.0664	0.0358
148	IHT000021	0.1172	7.9125
149	IHT000022	0.0312	0.0195
150	IHT000023	0.1368	0.0754
151	IHT000024	0.1367	0.0938
152	IHT000025	0.0937	0.0519
153	IHT000026	0.1524	0.0833
154	IHT000027	0.1055	0.0675
155	IHT000028	0.1757	0.1108

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0546	0.0300
157	IHT000030	0.0039	0.0021
158	IHT000031	0.0195	0.0107
159	IHT000032	0.0234	0.0127
160	IHT000033	0.0390	0.0211
161	IHT000034	0.0274	0.0169
162	IHT000035	0.0898	0.0420
163	IHT000036	0.0546	0.0340

Velocity 1 = 10.0308 (ft/sec) (+/- 2.3343 %)
 Velocity 2 = 10.0508 (ft/sec) (+/- 1.7708 %)
 Pressure drop = -1.5616 (psi)
 Tsat in = 293.1303 (deg F) Tsat out = 294.7171 (deg F)
 Phi inner = 299.5827 (kBtu/hr-ft2) (+/- 1.2354 %)
 Phi outer = 301.2508 (kBtu/hr-ft2) (+/- 1.2626 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	84.4583	85.0931	84.7461	1.8017e-01	1.9001e+00
1	TRF0000002	84.7891	85.2100	84.9111	1.2096e-01	1.9001e+00
2	TFM0000001	85.4535	86.5030	85.9253	1.7907e-01	1.9002e+00
3	TIN0000001	84.9966	85.5247	85.2818	1.2656e-01	1.9002e+00
4	TRV0000001	86.8194	87.6575	87.2990	1.9061e-01	1.9002e+00
5	TSR0000001	153.1754	155.6590	154.4771	5.8091e-01	1.9048e+00
6	TAO020136	144.8777	147.4918	146.1951	4.9554e-01	1.9039e+00
7	TAO050136	210.6017	213.0758	211.4980	6.2684e-01	1.9134e+00
8	TAO070136	205.6272	210.5468	207.4710	1.3808e+00	1.9127e+00
9	TAO080136	246.3388	247.7367	247.1825	2.8385e-01	1.9210e+00
10	TAO090136	255.9041	257.4842	256.6017	3.6663e-01	1.9233e+00
11	TAO100136	248.9115	251.5243	250.1760	5.6576e-01	1.9217e+00
12	TAO105136	255.8326	257.9770	256.8565	4.7341e-01	1.9234e+00
13	TAO110136	98.4497	99.2800	98.8833	1.8098e-01	1.9006e+00
14	TAO115136	262.2851	264.5124	263.4933	5.2404e-01	1.9251e+00
15	TAO120136	287.6086	288.6158	288.0314	2.3957e-01	1.9318e+00
16	TAO125136	267.0714	282.2334	275.4516	3.4490e+00	1.9282e+00
17	TAO130136	275.0978	276.1009	275.5548	2.6096e-01	1.9283e+00
18	TAO120048	117.6355	118.8664	118.2940	3.1330e-01	1.9016e+00
19	TAO130048	293.5623	294.8344	294.2075	2.4444e-01	1.9336e+00
20	TAO120224	283.5045	284.9697	284.2355	3.7985e-01	1.9307e+00
21	TAO130224	264.9981	266.6483	265.8754	4.3000e-01	1.9257e+00
22	TAO120312	284.6960	286.7127	285.5380	4.2497e-01	1.9310e+00
23	TAO130312	289.8976	290.6287	290.2502	1.7398e-01	1.9324e+00
24	TRT020000	205.0152	206.6544	205.8273	3.9780e-01	1.9124e+00
25	TRT070000	250.2769	251.6872	250.9745	2.7332e-01	1.9219e+00
26	TRT100000	286.6553	288.1159	287.4574	3.2691e-01	1.9316e+00
27	TRT120000	459.5432	459.8854	459.7091	9.3695e-02	1.9997e+00
28	TRT125000	101.9743	102.9052	102.4350	2.1745e-01	1.9007e+00
29	TRT130000	298.3059	299.5765	298.8058	2.5230e-01	1.9349e+00
30	EMPTY	39.3761	40.0646	39.7755	2.1152e-01	1.9011e+00
31	TAF050136	137.6702	140.5840	139.0598	6.7202e-01	1.9032e+00
32	TAF070136	159.7069	163.0610	161.3829	7.2588e-01	1.9056e+00
33	TAF080136	249.0694	255.1816	251.4461	1.6062e+00	1.9221e+00
34	TAF090136	99.2338	100.1700	99.7348	1.9781e-01	1.9006e+00
35	TAF100136	193.0279	196.0360	194.1481	5.4206e-01	1.9104e+00
36	TAF105136	198.7897	201.3720	199.7756	5.5635e-01	1.9113e+00
37	TAF110136	205.4373	207.7348	206.3747	4.1978e-01	1.9125e+00
38	TAF115136	211.7468	213.4668	212.7121	4.0626e-01	1.9137e+00
39	TAF120136	265.1942	270.7145	268.4317	1.2666e+00	1.9263e+00
40	TAF125136	223.0036	225.0767	224.0585	4.4435e-01	1.9159e+00
41	TAF130136	227.1595	228.6729	228.0051	3.4148e-01	1.9167e+00
42	TAF120048	229.0973	230.7166	230.0255	4.1528e-01	1.9172e+00
43	TAF130048	243.6525	244.9651	244.3257	3.4646e-01	1.9204e+00
44	TAF120224	212.7680	214.7738	214.0115	4.1458e-01	1.9139e+00
45	TAF130224	222.1431	223.2898	222.6572	2.7969e-01	1.9156e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	2.1911e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9545	1.1580e-01	1.9011e+00
48	TAI130048	278.7697	280.6984	279.7267	4.4026e-01	1.9294e+00
49	TAI130136	280.4980	281.9640	281.3246	3.3483e-01	1.9299e+00
50	TAI130224	289.3906	290.9468	290.1796	4.1016e-01	1.9324e+00
51	TAI130312	274.0890	275.3797	274.7735	3.0685e-01	1.9280e+00
52	TRR130000	150.5790	151.9740	151.2586	3.6811e-01	1.9044e+00
53	TSI000001	59.3117	60.0639	59.6710	1.8235e-01	1.9001e+00
54	TSI000002	86.0376	87.8218	86.9966	3.2905e-01	1.9002e+00
55	TSO000001	56.2328	57.0985	56.6635	2.1368e-01	1.9001e+00
56	TSO000002	75.4524	76.1964	75.8244	1.9099e-01	1.9000e+00
57	TAF020136	102.3129	105.9634	103.9643	7.8423e-01	1.9008e+00
58	TAF120312	223.7194	226.4744	225.0482	5.9892e-01	1.9161e+00
59	TAF130312	245.6706	248.0058	246.6626	5.1091e-01	1.9209e+00
60	EMPTY	4.1504	4.1797	4.1652	5.9156e-03	0.0000e+00
61	EMPTY	4.1357	4.1504	4.1446	3.3728e-03	0.0000e+00
62	EMPTY	4.1211	4.1406	4.1247	3.5307e-03	0.0000e+00
63	EMPTY	4.1113	4.1211	4.1156	2.1249e-03	0.0000e+00
64	EMPTY	1.9775	1.9824	1.9781	1.6028e-03	0.0000e+00
65	EMPTY	1.9873	1.9922	1.9921	6.9053e-04	0.0000e+00
66	EMPTY	1.9971	2.0020	1.9987	2.3365e-03	0.0000e+00
67	EMPTY	2.0068	2.0117	2.0103	2.2603e-03	0.0000e+00
68	EMPTY	2.0117	2.0166	2.0156	1.9730e-03	0.0000e+00
69	EMPTY	2.0215	2.0264	2.0253	2.0432e-03	0.0000e+00
70	EMPTY	2.0313	2.0410	2.0315	1.5314e-03	0.0000e+00
71	EMPTY	2.0459	2.0508	2.0461	9.6655e-04	0.0000e+00
72	EMPTY	2.0508	2.0557	2.0514	1.6028e-03	0.0000e+00
73	EMPTY	2.0605	2.0654	2.0639	2.3008e-03	0.0000e+00
74	EMPTY	2.0703	2.0752	2.0705	9.6655e-04	0.0000e+00
75	EMPTY	2.0752	2.0898	2.0803	1.9631e-03	0.0000e+00
76	EMPTY	2.0850	2.0947	2.0869	2.6100e-03	0.0000e+00
77	EMPTY	2.0947	2.1045	2.0990	1.8821e-03	0.0000e+00
78	EMPTY	2.1094	2.1143	2.1135	1.8082e-03	0.0000e+00
79	EMPTY	2.1289	2.1338	2.1290	6.9053e-04	0.0000e+00
80	PAN020136	-17.8439	5.2732	-7.8494	5.3039e+00	8.7022e-01
81	PAN050136	-29.7115	-3.3138	-18.5940	6.6532e+00	1.6806e+00
82	PAN070136	-24.5018	1.1330	-10.9032	6.5250e+00	8.7043e-01
83	PAN080136	-13.9558	4.8125	-7.8553	5.3358e+00	8.7022e-01
84	PAN090136	-11.9546	4.5249	-3.1808	3.9480e+00	8.7004e-01
85	PAN100136	-12.1908	7.4931	-2.6037	5.0459e+00	8.7002e-01
86	PAN105136	-7.7020	13.8129	-3.1045	5.2044e+00	8.7003e-01
87	PAN110136	-1.8053	35.7313	10.0981	7.8756e+00	8.7037e-01
88	PAN115136	-5.8049	6.4784	0.3200	3.0344e+00	8.7000e-01
89	PAN120136	-5.9853	4.8484	1.3267	2.2437e+00	8.7001e-01
90	PAN125136	-4.2775	4.5725	0.6663	2.1030e+00	8.7000e-01
91	PAN130136	-4.6252	4.6827	-0.3390	2.2577e+00	8.7000e-01
92	PAN120048	-1.6534	5.1368	1.8668	1.8439e+00	8.7001e-01
93	PAN130048	-3.9436	2.0073	-1.4763	1.4396e+00	8.7001e-01
94	PAN120224	-0.3109	17.6181	3.7662	3.8345e+00	8.7005e-01
95	PAN130224	-3.2056	4.1186	-0.5674	1.4954e+00	8.7000e-01
96	PAN120312	-3.5020	28.2363	2.4428	5.5589e+00	8.7002e-01
97	PAN130312	-6.4027	2.6763	-1.8602	2.1460e+00	8.7001e-01
98	PAB000136	60.0950	60.8732	60.4731	2.1705e-01	5.9938e-01
99	PAB100136	61.6541	62.9358	62.0615	2.4085e-01	6.0039e-01
100	PAB125136	61.7861	62.1523	61.9271	9.0065e-02	6.0031e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.6120	60.9548	60.3689	4.5273e-01	7.6503e-01
102	PRV000001	19.7186	19.9627	19.8406	3.4877e-02	7.5164e-01
103	PSR000001	61.1730	61.4171	61.2462	6.5249e-02	7.6547e-01
104	PFM000001	14.9160	15.6484	15.3445	1.6589e-01	5.0147e-01
105	PAN000136	-59.0071	-29.2525	-43.2326	7.7785e+00	4.9212e+00
106	PFM000002	15.1183	15.5881	15.4065	9.9801e-02	2.0368e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-5.9131	-8.3900	1.3728e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0043	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	177.4151	178.0011	177.6690	1.3811e-01	1.3388e+00
113	VPW000002	207.5233	208.1092	207.7460	1.1844e-01	1.4865e+00
114	VPW000003	256.8021	257.3881	257.1028	1.1975e-01	1.7423e+00
115	VPW000004	182.4031	182.9890	182.7352	1.2001e-01	1.3632e+00
116	VPW000005	243.3631	243.7538	243.5468	1.2104e-01	1.6708e+00
117	VPW000006	258.4172	258.8079	258.6476	1.2283e-01	1.7506e+00
118	IPW000001	943.7329	949.5900	946.9344	1.5659e+00	1.1026e+01
119	IPW000002	2221.3704	2236.9805	2231.7903	4.1833e+00	1.9403e+01
120	IPW000003	2248.3499	2260.0498	2255.2532	3.0569e+00	1.9571e+01
121	IPW000004	651.6770	654.6067	653.6206	4.6782e-01	5.5374e+00
122	IPW000005	434.2076	435.1841	434.6470	3.7235e-01	3.9737e+00
123	IPW000006	446.8149	449.2563	447.8986	4.6574e-01	4.0645e+00
124	EMPTY	-0.0293	-0.0146	-0.0211	3.9998e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.6908e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0162	3.3366e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0152	3.5072e-03	0.0000e+00
128	IHT000001	219.3434	222.0778	220.7185	6.5192e-01	4.6564e+00
129	IHT000002	226.1268	228.4705	227.1425	6.3011e-01	4.6871e+00
130	IHT000003	227.6217	230.5514	229.0319	7.0948e-01	4.6963e+00
131	IHT000004	223.7643	226.4986	225.0104	7.4230e-01	4.6769e+00
132	IHT000005	221.2590	223.7981	222.5128	6.0501e-01	4.6649e+00
133	IHT000006	215.4034	217.9424	216.6651	6.4502e-01	4.6373e+00
134	IHT000007	225.1352	227.2837	226.0882	5.7944e-01	4.6820e+00
135	IHT000008	222.5436	224.6920	223.4850	5.8752e-01	4.6695e+00
136	IHT000009	222.5323	225.0714	223.6455	6.5821e-01	4.6703e+00
137	IHT000010	54.0377	56.3815	55.4244	5.5419e-01	4.1373e+00
138	IHT000011	222.6900	225.6197	224.2487	6.0295e-01	4.6732e+00
139	IHT000012	218.7425	221.8675	220.3362	6.5121e-01	4.6545e+00
140	IHT000013	158.3984	161.5234	159.7422	6.5035e-01	4.4002e+00
141	IHT000014	219.3585	222.4835	220.6826	6.2051e-01	4.6562e+00
142	IHT000015	163.5667	166.3011	164.8715	5.8052e-01	4.4191e+00
143	IHT000016	152.3888	154.9279	153.5255	6.0062e-01	4.3780e+00
144	IHT000017	182.4144	185.3441	183.8910	6.4496e-01	4.4935e+00
145	IHT000018	184.5027	188.0183	185.8075	6.9187e-01	4.5014e+00
146	IHT000019	178.8687	181.0171	180.1461	5.9609e-01	4.4783e+00
147	IHT000020	183.9318	186.4708	185.3692	6.0330e-01	4.4996e+00
148	IHT000021	-3.2039	0.1164	-1.4695	7.3783e-01	4.1000e+00
149	IHT000022	158.2895	160.8286	159.6606	5.7924e-01	4.3999e+00
150	IHT000023	179.7551	182.4895	181.2823	5.9802e-01	4.4829e+00
151	IHT000024	144.3773	146.9163	145.7016	5.7221e-01	4.3512e+00
152	IHT000025	179.1579	181.8923	180.6071	5.6784e-01	4.4802e+00
153	IHT000026	181.1073	184.0370	182.7558	6.0123e-01	4.4889e+00
154	IHT000027	154.4471	157.1815	156.0722	5.4881e-01	4.3870e+00
155	IHT000028	156.7646	159.6942	158.5693	6.6329e-01	4.3960e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.2058	183.3308	181.8700	6.9948e-01	4.4853e+00
157	IHT000030	183.9656	186.5047	185.2665	6.3700e-01	4.4992e+00
158	IHT000031	181.0322	183.7665	182.3720	6.3505e-01	4.4873e+00
159	IHT000032	183.3045	186.2342	184.7148	6.7461e-01	4.4969e+00
160	IHT000033	183.1318	186.2568	184.6592	6.7507e-01	4.4967e+00
161	IHT000034	160.9300	163.6644	162.2933	5.7655e-01	4.4095e+00
162	IHT000035	212.7855	214.9339	213.8870	5.8761e-01	4.6244e+00
163	IHT000036	159.2060	161.3544	160.3779	5.4104e-01	4.4025e+00

Velocity 1 = 10.0629 (ft/sec) (+/- 2.3272 %)
Velocity 2 = 10.0788 (ft/sec) (+/- 1.7698 %)
Pressure drop = -1.4528 (psi)
Tsat in = 292.8813 (deg F) Tsat out = 294.5742 (deg F)
Phi inner = 298.1869 (kBtu/hr-ft2) (+/- 1.2359 %)
Phi outer = 300.3235 (kBtu/hr-ft2) (+/- 1.2630 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.2466	85.0931	84.6742	1.8875e-01	1.9001e+00
1	TRF000002	84.5785	85.2100	84.8480	1.2787e-01	1.9001e+00
2	TFM000001	86.3958	87.2378	86.8146	2.1587e-01	1.9002e+00
3	TIN000001	85.9447	86.4722	86.1794	1.3859e-01	1.9002e+00
4	TRV000001	87.5504	88.4935	88.1055	2.2316e-01	1.9002e+00
5	TSR000001	152.6781	155.9559	154.5242	7.3724e-01	1.9048e+00
6	TAO020136	142.0562	145.6827	143.7193	7.4922e-01	1.9037e+00
7	TAO050136	209.6463	212.8833	211.3604	7.6548e-01	1.9134e+00
8	TAO070136	205.7242	211.2211	207.9113	1.2221e+00	1.9128e+00
9	TAO080136	247.2692	248.6645	247.9185	2.9467e-01	1.9212e+00
10	TAO090136	256.0904	257.6699	256.9468	3.3376e-01	1.9234e+00
11	TAO100136	249.5647	251.9905	250.8399	4.8593e-01	1.9219e+00
12	TAO105136	256.4847	258.7221	257.6803	4.5759e-01	1.9236e+00
13	TAO110136	99.4804	99.9995	99.7563	1.5490e-01	1.9006e+00
14	TAO115136	263.1204	265.1607	264.0349	5.2231e-01	1.9252e+00
15	TAO120136	287.5166	288.8885	288.2617	3.0437e-01	1.9318e+00
16	TAO125136	265.7777	281.1340	276.7773	3.3398e+00	1.9286e+00
17	TAO130136	275.4608	276.8263	276.0689	3.1443e-01	1.9284e+00
18	TAO120048	118.8644	120.0941	119.3993	2.8968e-01	1.9016e+00
19	TAO130048	294.1970	295.2872	294.8241	2.7928e-01	1.9338e+00
20	TAO120224	283.8716	285.2446	284.5942	3.5362e-01	1.9308e+00
21	TAO130224	265.7322	267.2010	266.5052	3.8229e-01	1.9258e+00
22	TAO120312	284.4210	286.0707	285.4829	3.3793e-01	1.9310e+00
23	TAO130312	290.2618	291.2645	290.8181	2.1726e-01	1.9326e+00
24	TRT020000	205.1124	206.7510	205.9044	3.7372e-01	1.9124e+00
25	TRT070000	250.9355	252.4394	251.5543	2.7717e-01	1.9221e+00
26	TRT100000	287.2957	288.4805	287.8290	2.6651e-01	1.9317e+00
27	TRT120000	459.4574	459.8854	459.6544	9.3450e-02	1.9997e+00
28	TRT125000	102.9003	103.4191	103.1640	1.6487e-01	1.9007e+00
29	TRT130000	299.0316	300.3008	299.4834	2.2256e-01	1.9352e+00
30	EMPTY	39.3761	40.2940	39.7939	2.2567e-01	1.9011e+00
31	TAF050136	138.5737	142.0882	139.9950	7.4998e-01	1.9033e+00
32	TAF070136	160.6939	163.9471	162.0883	7.5446e-01	1.9057e+00
33	TAF080136	250.3682	256.5688	253.3202	1.5016e+00	1.9225e+00
34	TAF090136	100.5829	101.7250	101.0589	2.8542e-01	1.9006e+00
35	TAF100136	193.7066	196.4240	194.8507	5.5738e-01	1.9105e+00
36	TAF105136	199.0757	201.4672	200.2267	5.1579e-01	1.9114e+00
37	TAF110136	206.2981	207.8319	206.9411	3.6778e-01	1.9126e+00
38	TAF115136	212.6055	214.2300	213.3036	3.5106e-01	1.9138e+00
39	TAF120136	265.9291	271.9968	268.9201	1.5515e+00	1.9265e+00
40	TAF125136	224.2278	226.2988	225.0900	4.9424e-01	1.9161e+00
41	TAF130136	227.8221	229.0507	228.4621	2.7691e-01	1.9168e+00
42	TAF120048	229.6696	231.9544	230.7836	4.4324e-01	1.9173e+00
43	TAF130048	244.1205	245.8073	245.0075	4.2174e-01	1.9205e+00
44	TAF120224	213.5324	215.5363	214.4924	3.9322e-01	1.9140e+00
45	TAF130224	222.3344	224.0546	223.1085	3.6994e-01	1.9157e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1124	1.9293e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9407	1.5522e-01	1.9011e+00
48	TAI130048	279.5956	281.5236	280.6923	4.4714e-01	1.9297e+00
49	TAI130136	281.1386	282.4211	281.8331	2.8605e-01	1.9300e+00
50	TAI130224	289.7569	291.8619	290.6410	4.0633e-01	1.9325e+00
51	TAI130312	274.1804	275.5649	275.0132	3.0143e-01	1.9281e+00
52	TRR130000	152.4723	154.5571	153.5538	4.5028e-01	1.9047e+00
53	TSI000001	58.9893	59.8496	59.4520	1.7274e-01	1.9001e+00
54	TSI000002	87.4001	88.6586	87.9856	3.3130e-01	1.9002e+00
55	TSO000001	56.0161	56.9903	56.5208	2.2788e-01	1.9001e+00
56	TSO000002	75.3464	76.3019	75.8666	2.3424e-01	1.9000e+00
57	TAF020136	103.3577	106.3803	104.9949	7.5258e-01	1.9008e+00
58	TAF120312	224.2894	226.4749	225.5307	5.1968e-01	1.9162e+00
59	TAF130312	246.6050	248.7544	247.4662	5.2263e-01	1.9211e+00
60	EMPTY	4.1748	4.2041	4.1888	7.0455e-03	0.0000e+00
61	EMPTY	4.1553	4.1748	4.1674	5.4247e-03	0.0000e+00
62	EMPTY	4.1406	4.1602	4.1481	5.0503e-03	0.0000e+00
63	EMPTY	4.1260	4.1455	4.1382	4.5474e-03	0.0000e+00
64	EMPTY	1.9824	1.9922	1.9875	2.1970e-03	0.0000e+00
65	EMPTY	1.9971	2.0068	2.0005	2.6562e-03	0.0000e+00
66	EMPTY	2.0068	2.0117	2.0082	2.2146e-03	0.0000e+00
67	EMPTY	2.0166	2.0215	2.0180	2.2146e-03	0.0000e+00
68	EMPTY	2.0215	2.0264	2.0232	2.3675e-03	0.0000e+00
69	EMPTY	2.0313	2.0361	2.0325	2.1635e-03	0.0000e+00
70	EMPTY	2.0361	2.0410	2.0395	2.3008e-03	0.0000e+00
71	EMPTY	2.0508	2.0557	2.0549	1.8082e-03	0.0000e+00
72	EMPTY	2.0557	2.0605	2.0600	1.6028e-03	0.0000e+00
73	EMPTY	2.0703	2.0752	2.0705	9.6655e-04	0.0000e+00
74	EMPTY	2.0752	2.0850	2.0789	2.3261e-03	0.0000e+00
75	EMPTY	2.0850	2.0898	2.0889	1.9730e-03	0.0000e+00
76	EMPTY	2.0947	2.0947	2.0947	0.0000e+00	0.0000e+00
77	EMPTY	2.1045	2.1094	2.1057	2.1065e-03	0.0000e+00
78	EMPTY	2.1191	2.1240	2.1198	1.7115e-03	0.0000e+00
79	EMPTY	2.1240	2.1484	2.1361	3.4513e-03	0.0000e+00
80	PAN020136	-17.8439	3.1370	-7.7273	5.5537e+00	8.7021e-01
81	PAN050136	-29.5589	-0.4147	-17.0284	6.1901e+00	1.6805e+00
82	PAN070136	-23.2811	1.2856	-10.5461	6.4130e+00	8.7040e-01
83	PAN080136	-13.8795	2.9815	-7.5837	4.9282e+00	8.7021e-01
84	PAN090136	-8.6739	10.2470	-1.6518	4.6004e+00	8.7001e-01
85	PAN100136	-12.1908	4.9754	-2.7791	4.8680e+00	8.7003e-01
86	PAN105136	-7.7020	10.8374	-1.3009	4.6756e+00	8.7001e-01
87	PAN110136	-1.2712	26.9575	4.5164	5.5771e+00	8.7007e-01
88	PAN115136	-5.1945	12.2768	0.1689	3.5790e+00	8.7000e-01
89	PAN120136	-4.9172	4.3144	0.0206	2.1797e+00	8.7000e-01
90	PAN125136	-6.1086	2.4363	-3.6336	1.9399e+00	8.7005e-01
91	PAN130136	1.4020	10.8625	5.9812	2.0200e+00	8.7013e-01
92	PAN120048	-4.9340	4.8316	0.9299	2.1688e+00	8.7000e-01
93	PAN130048	-3.8673	4.4487	-0.9910	1.7536e+00	8.7000e-01
94	PAN120224	-4.8123	29.5963	4.0363	6.7675e+00	8.7006e-01
95	PAN130224	-4.7315	3.8897	-0.6559	2.3586e+00	8.7000e-01
96	PAN120312	-5.1042	4.3563	0.3356	1.9070e+00	8.7000e-01
97	PAN130312	-7.2420	3.7444	-0.7539	2.4079e+00	8.7000e-01
98	PAB000136	59.7288	60.7359	60.2470	2.4266e-01	5.9924e-01
99	PAB100136	61.3794	62.1118	61.6614	1.6319e-01	6.0014e-01
100	PAB125136	61.6030	62.0150	61.7953	8.7736e-02	6.0022e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.1237	60.9548	60.0930	4.7272e-01	7.6490e-01
102	PRV0000001	19.8406	19.9627	19.9188	5.9189e-02	7.5165e-01
103	PSR0000001	60.8068	60.9288	60.9019	5.1081e-02	7.6530e-01
104	PFM0000001	15.1907	15.6484	15.4415	1.0913e-01	5.0149e-01
105	PAN000136	-53.0562	-23.7593	-40.2205	8.5580e+00	4.9210e+00
106	PFM0000002	15.3028	15.6049	15.4908	6.7885e-02	2.0371e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-6.2109	-8.9529	1.2038e+00	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	177.4151	178.0011	177.7432	1.4994e-01	1.3392e+00
113	VPW0000002	207.5233	207.9139	207.6991	9.8648e-02	1.4863e+00
114	VPW0000003	256.8021	257.3881	257.0521	1.1189e-01	1.7421e+00
115	VPW0000004	182.4031	182.9890	182.6844	1.2577e-01	1.3629e+00
116	VPW0000005	243.3631	243.7538	243.5820	1.0907e-01	1.6709e+00
117	VPW0000006	258.4172	259.0032	258.6983	1.2577e-01	1.7508e+00
118	IPW0000001	949.5900	955.4470	952.8700	2.1035e+00	1.1058e+01
119	IPW0000002	2209.6626	2223.3215	2213.6431	5.1242e+00	1.9273e+01
120	IPW0000003	2238.5999	2248.3499	2243.7871	2.3510e+00	1.9489e+01
121	IPW0000004	653.1418	654.6067	654.0601	3.9013e-01	5.5406e+00
122	IPW0000005	433.7194	435.6723	434.8421	5.2427e-01	3.9750e+00
123	IPW0000006	445.8384	447.7915	447.1174	4.1725e-01	4.0591e+00
124	EMPTY	-0.0293	-0.0098	-0.0206	4.1019e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0129	3.2359e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0164	3.2359e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	3.2057e-03	0.0000e+00
128	IHT0000001	219.1481	222.2731	220.8747	6.5834e-01	4.6571e+00
129	IHT0000002	225.5408	228.4705	227.2558	6.7461e-01	4.6877e+00
130	IHT0000003	227.6217	230.3561	229.1999	6.3361e-01	4.6972e+00
131	IHT0000004	223.7643	226.4986	225.1667	6.0450e-01	4.6776e+00
132	IHT0000005	221.2590	224.1887	222.7628	5.8294e-01	4.6661e+00
133	IHT0000006	215.2081	218.1378	216.8369	6.3210e-01	4.6381e+00
134	IHT0000007	224.5493	227.4790	226.3109	6.3808e-01	4.6831e+00
135	IHT0000008	222.1529	224.8873	223.6569	6.5584e-01	4.6704e+00
136	IHT0000009	222.1417	225.2667	223.7861	6.9148e-01	4.6710e+00
137	IHT0000010	54.0377	56.5768	55.3580	5.7664e-01	4.1372e+00
138	IHT0000011	222.8853	225.6197	224.2526	6.0746e-01	4.6732e+00
139	IHT0000012	219.1331	221.6722	220.3284	6.6103e-01	4.6545e+00
140	IHT0000013	158.5938	161.5234	159.7305	6.6227e-01	4.4002e+00
141	IHT0000014	219.5538	222.4835	220.7139	6.4284e-01	4.6563e+00
142	IHT0000015	163.7620	166.6917	164.8832	6.0207e-01	4.4191e+00
143	IHT0000016	152.3888	155.5138	153.6310	5.7691e-01	4.3784e+00
144	IHT0000017	182.8050	185.1487	183.9886	5.6965e-01	4.4939e+00
145	IHT0000018	184.3074	186.8465	185.7958	5.6482e-01	4.5013e+00
146	IHT0000019	178.8687	181.0171	180.0132	4.6857e-01	4.4778e+00
147	IHT0000020	184.1271	186.0802	185.2364	4.6928e-01	4.4990e+00
148	IHT0000021	-3.0086	-0.2742	-1.5281	5.9984e-01	4.1000e+00
149	IHT0000022	158.4848	160.6333	159.6489	5.0833e-01	4.3999e+00
150	IHT0000023	180.3411	182.2942	181.2511	5.2735e-01	4.4828e+00
151	IHT0000024	144.7679	146.5257	145.6742	4.8929e-01	4.3511e+00
152	IHT0000025	179.5486	181.5017	180.5524	4.7843e-01	4.4799e+00
153	IHT0000026	181.8885	183.6463	182.6542	4.5820e-01	4.4885e+00
154	IHT0000027	155.4237	157.1815	156.1347	4.0194e-01	4.3872e+00
155	IHT0000028	157.5458	160.2802	158.5146	5.6629e-01	4.3958e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.7918	183.3308	181.7802	5.8582e-01	4.4849e+00
157	IHT000030	183.9656	186.8953	185.2001	6.1313e-01	4.4989e+00
158	IHT000031	181.2275	183.9618	182.3642	6.4076e-01	4.4873e+00
159	IHT000032	183.3045	186.4295	184.7226	6.7751e-01	4.4969e+00
160	IHT000033	183.3271	186.4521	184.6826	6.7244e-01	4.4968e+00
161	IHT000034	160.9300	163.2737	162.2855	5.2261e-01	4.4095e+00
162	IHT000035	212.7855	215.1292	213.8675	5.3701e-01	4.6243e+00
163	IHT000036	159.2060	161.3544	160.3506	5.2201e-01	4.4024e+00

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Velocity 1 = 0.032100 (ft/sec)

Velocity 2 = 0.028000 (ft/sec)

Pressure Drop = 0.108800 (psi)

Tsat in = 0.249023 (deg F) Tsat out = 0.142914 (deg F)

Phi inner = 1.395813 (kBtu/hr-ft2) Phi outer = 0.927307 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF0000001	0.0719	0.0848
1	TRF0000002	0.0631	0.0743
2	TFM0000001	0.8893	1.0350
3	TIN0000001	0.8976	1.0525
4	TRV0000001	0.8065	0.9238
5	TSR0000001	0.0471	0.0305
6	TAO020136	2.4758	1.6935
7	TAO050136	0.1376	0.0651
8	TAO070136	0.4403	0.2122
9	TAO080136	0.7360	0.2978
10	TAO090136	0.3451	0.1345
11	TAO100136	0.6639	0.2654
12	TAO105136	0.8238	0.3207
13	TAO110136	0.8730	0.8829
14	TAO115136	0.5416	0.2056
15	TAO120136	0.2303	0.0800
16	TAO125136	1.3257	0.4813
17	TAO130136	0.5141	0.1866
18	TAO120048	1.1053	0.9344
19	TAO130048	0.6166	0.2096
20	TAO120224	0.3587	0.1262
21	TAO130224	0.6298	0.2369
22	TAO120312	0.0551	0.0193
23	TAO130312	0.5679	0.1957
24	TRT020000	0.0771	0.0375
25	TRT070000	0.5798	0.2310
26	TRT100000	0.3716	0.1293
27	TRT120000	0.0547	0.0119
28	TRT125000	0.7290	0.7117
29	TRT130000	0.6776	0.2268
30	EMPTY	0.0184	0.0463
31	TAF050136	0.9352	0.6725
32	TAF070136	0.7054	0.4371
33	TAF080136	1.8741	0.7453
34	TAF090136	1.3241	1.3276
35	TAF100136	0.7026	0.3619
36	TAF105136	0.4511	0.2258
37	TAF110136	0.5664	0.2745
38	TAF115136	0.5915	0.2781
39	TAF120136	0.4884	0.1819
40	TAF125136	1.0315	0.4604
41	TAF130136	0.4570	0.2004
42	TAF120048	0.7581	0.3296
43	TAF130048	0.6818	0.2791
44	TAF120224	0.4809	0.2247
45	TAF130224	0.4513	0.2027

#	Name	Abs Diff	%Diff
46	EMPTY	0.0000	0.0000
47	EMPTY	0.0138	0.0345
48	TAI130048	0.9656	0.3452
49	TAI130136	0.5085	0.1808
50	TAI130224	0.4614	0.1590
51	TAI130312	0.2397	0.0872
52	TRR130000	2.2952	1.5174
53	TSI000001	0.2190	0.3670
54	TSI000002	0.9890	1.1368
55	TSO000001	0.1427	0.2518
56	TSO000002	0.0422	0.0557
57	TAF020136	1.0306	0.9913
58	TAF120312	0.4825	0.2144
59	TAF130312	0.8036	0.3258
60	EMPTY	0.0236	0.5666
61	EMPTY	0.0228	0.5501
62	EMPTY	0.0234	0.5673
63	EMPTY	0.0226	0.5491
64	EMPTY	0.0094	0.4752
65	EMPTY	0.0084	0.4217
66	EMPTY	0.0095	0.4753
67	EMPTY	0.0077	0.3830
68	EMPTY	0.0076	0.3771
69	EMPTY	0.0072	0.3555
70	EMPTY	0.0080	0.3938
71	EMPTY	0.0088	0.4301
72	EMPTY	0.0086	0.4192
73	EMPTY	0.0066	0.3198
74	EMPTY	0.0084	0.4057
75	EMPTY	0.0086	0.4134
76	EMPTY	0.0078	0.3738
77	EMPTY	0.0067	0.3192
78	EMPTY	0.0063	0.2981
79	EMPTY	0.0071	0.3335
80	PAN020136	0.1221	1.5555
81	PAN050136	1.5656	8.4199
82	PAN070136	0.3571	3.2752
83	PAN080136	0.2716	3.4575
84	PAN090136	1.5290	48.0697
85	PAN100136	0.1754	6.7366
86	PAN105136	1.8036	58.0963
87	PAN110136	5.5817	55.2748
88	PAN115136	0.1511	47.2188
89	PAN120136	1.3061	98.4473
90	PAN125136	4.2999	645.3400
91	PAN130136	6.3202	1864.3657
92	PAN120048	0.9369	50.1875
93	PAN130048	0.4853	32.8727
94	PAN120224	0.2701	7.1717
95	PAN130224	0.0885	15.5975
96	PAN120312	2.1072	86.2617
97	PAN130312	1.1063	59.4721
98	PAB000136	0.2261	0.3739
99	PAB100136	0.4001	0.6447
100	PAB125136	0.1318	0.2128

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2759	0.4570
102	PRV000001	0.0782	0.3941
103	PSR000001	0.3443	0.5622
104	PFM000001	0.0970	0.6321
105	PAN000136	3.0121	6.9672
106	PFM000002	0.0843	0.5472
107	EMPTY	0.0001	2.0408
108	EMPTY	0.5629	6.7092
109	EMPTY	0.0002	4.6512
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0742	0.0418
113	VPW000002	0.0469	0.0226
114	VPW000003	0.0507	0.0197
115	VPW000004	0.0508	0.0278
116	VPW000005	0.0352	0.0145
117	VPW000006	0.0507	0.0196
118	IPW000001	5.9356	0.6268
119	IPW000002	18.1472	0.8131
120	IPW000003	11.4661	0.5084
121	IPW000004	0.4395	0.0672
122	IPW000005	0.1951	0.0449
123	IPW000006	0.7812	0.1744
124	EMPTY	0.0005	2.3697
125	EMPTY	0.0002	1.5267
126	EMPTY	0.0002	1.2346
127	EMPTY	0.0006	3.9474
128	IHT000001	0.1562	0.0708
129	IHT000002	0.1133	0.0499
130	IHT000003	0.1680	0.0734
131	IHT000004	0.1563	0.0695
132	IHT000005	0.2500	0.1124
133	IHT000006	0.1718	0.0793
134	IHT000007	0.2227	0.0985
135	IHT000008	0.1719	0.0769
136	IHT000009	0.1406	0.0629
137	IHT000010	0.0664	0.1198
138	IHT000011	0.0039	0.0017
139	IHT000012	0.0078	0.0035
140	IHT000013	0.0117	0.0073
141	IHT000014	0.0313	0.0142
142	IHT000015	0.0117	0.0071
143	IHT000016	0.1055	0.0687
144	IHT000017	0.0976	0.0531
145	IHT000018	0.0117	0.0063
146	IHT000019	0.1329	0.0738
147	IHT000020	0.1328	0.0716
148	IHT000021	0.0586	3.9878
149	IHT000022	0.0117	0.0073
150	IHT000023	0.0312	0.0172
151	IHT000024	0.0274	0.0188
152	IHT000025	0.0547	0.0303
153	IHT000026	0.1016	0.0556
154	IHT000027	0.0625	0.0400
155	IHT000028	0.0547	0.0345

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0898	0.0494
157	IHT000030	0.0664	0.0358
158	IHT000031	0.0078	0.0043
159	IHT000032	0.0078	0.0042
160	IHT000033	0.0234	0.0127
161	IHT000034	0.0078	0.0048
162	IHT000035	0.0195	0.0091
163	IHT000036	0.0273	0.0170

Velocity 1 = 9.5128 (ft/sec) (+/- 2.4665 %)
Velocity 2 = 9.5354 (ft/sec) (+/- 1.7935 %)
Pressure drop = -1.7527 (psi)
Tsats in = 292.8298 (deg F) Tsats out = 294.7736 (deg F)
Phi inner = 300.1305 (kBtu/hr-ft2) (+/- 1.2352 %)
Phi outer = 299.9893 (kBtu/hr-ft2) (+/- 1.2636 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.2466	85.3047	84.6784	1.8616e-01	1.9001e+00
1	TRF000002	84.5785	84.9996	84.8775	1.2097e-01	1.9001e+00
2	TFM000001	86.3963	87.2368	86.8985	1.9715e-01	1.9002e+00
3	TIN000001	85.9452	86.5786	86.2805	1.3580e-01	1.9002e+00
4	TRV000001	87.5504	88.3885	88.0680	1.7635e-01	1.9002e+00
5	TSR000001	154.4671	157.3416	156.1310	6.4606e-01	1.9050e+00
6	TAO020136	145.8831	151.5036	148.1029	1.7350e+00	1.9041e+00
7	TAO050136	216.7777	219.1487	217.8309	6.7696e-01	1.9147e+00
8	TAO070136	211.8943	216.2180	214.1998	1.0382e+00	1.9140e+00
9	TAO080136	255.2508	256.4554	255.9249	2.9521e-01	1.9231e+00
10	TAO090136	264.8948	266.7425	265.7795	4.5828e-01	1.9256e+00
11	TAO100136	259.8003	262.1180	260.9226	5.3819e-01	1.9244e+00
12	TAO105136	267.5451	269.6744	268.7507	3.9473e-01	1.9264e+00
13	TAO110136	100.1999	100.9281	100.5679	1.5107e-01	1.9006e+00
14	TAO115136	272.2804	274.8631	273.6222	6.3306e-01	1.9277e+00
15	TAO120136	298.0084	299.1008	298.6475	2.7120e-01	1.9349e+00
16	TAO125136	270.1131	272.9667	271.1837	7.0539e-01	1.9271e+00
17	TAO130136	285.8623	287.1274	286.3893	2.8680e-01	1.9313e+00
18	TAO120048	120.7062	121.7299	121.2316	2.6848e-01	1.9018e+00
19	TAO130048	304.8775	305.9621	305.5266	2.5189e-01	1.9370e+00
20	TAO120224	294.5536	295.9189	295.2042	2.8904e-01	1.9339e+00
21	TAO130224	276.1552	277.7945	277.0271	3.6962e-01	1.9287e+00
22	TAO120312	293.3856	296.1205	294.9228	6.9200e-01	1.9338e+00
23	TAO130312	301.3386	302.5170	301.7975	2.2668e-01	1.9359e+00
24	TRT020000	210.4075	211.7525	211.1124	2.9980e-01	1.9134e+00
25	TRT070000	258.7267	260.7850	259.8516	3.4929e-01	1.9241e+00
26	TRT100000	295.6649	296.9370	296.4551	2.8957e-01	1.9342e+00
27	TRT120000	459.4574	459.8858	459.6681	8.1460e-02	1.9997e+00
28	TRT125000	104.2385	105.2700	104.7745	1.8952e-01	1.9008e+00
29	TRT130000	310.5086	313.0299	311.3217	5.4073e-01	1.9388e+00
30	EMPTY	39.3761	40.2940	39.8443	2.2695e-01	1.9011e+00
31	TAF050136	141.3862	144.5904	143.2587	6.7184e-01	1.9036e+00
32	TAF070136	164.7338	168.3683	166.6738	8.0478e-01	1.9063e+00
33	TAF080136	260.5358	267.2506	263.9029	1.8081e+00	1.9252e+00
34	TAF090136	100.8935	101.9329	101.5360	2.3975e-01	1.9007e+00
35	TAF100136	199.8123	202.7102	201.1517	5.5316e-01	1.9116e+00
36	TAF105136	206.0494	207.9573	206.8611	4.2614e-01	1.9126e+00
37	TAF110136	213.0837	214.8945	214.0007	4.0745e-01	1.9139e+00
38	TAF115136	220.0361	221.5571	220.8732	3.6959e-01	1.9153e+00
39	TAF120136	272.3654	278.5941	275.1023	1.2545e+00	1.9281e+00
40	TAF125136	232.5904	234.3705	233.3681	4.0230e-01	1.9179e+00
41	TAF130136	236.0231	237.5285	236.8228	3.5204e-01	1.9187e+00
42	TAF120048	238.4089	240.3972	239.3279	4.4410e-01	1.9192e+00
43	TAF130048	253.5584	255.7016	254.6756	4.4587e-01	1.9228e+00
44	TAF120224	221.3446	223.0535	222.1445	4.1558e-01	1.9155e+00
45	TAF130224	230.3459	231.8672	230.9753	3.1202e-01	1.9174e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.0940	2.1831e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	40.0234	1.4430e-01	1.9011e+00
48	TAI130048	290.7654	292.8634	291.9454	4.8248e-01	1.9329e+00
49	TAI130136	290.2684	291.5460	290.8794	2.8713e-01	1.9326e+00
50	TAI130224	298.6181	300.5315	299.6080	4.2412e-01	1.9352e+00
51	TAI130312	283.6580	285.0357	284.2879	3.1954e-01	1.9307e+00
52	TRR130000	151.2750	154.7557	153.0607	8.4071e-01	1.9046e+00
53	TSI000001	59.2037	60.1707	59.7950	2.0498e-01	1.9001e+00
54	TSI000002	88.2382	90.3326	89.4428	5.0283e-01	1.9003e+00
55	TSO000001	56.4494	57.0991	56.7763	1.8747e-01	1.9001e+00
56	TSO000002	76.5124	77.3611	76.9946	1.8210e-01	1.9000e+00
57	TAF020136	105.1301	108.5652	106.3033	8.0799e-01	1.9009e+00
58	TAF120312	232.8211	236.2207	234.4366	8.9359e-01	1.9181e+00
59	TAF130312	257.2294	260.2002	258.2786	8.6168e-01	1.9237e+00
60	EMPTY	4.4531	4.4873	4.4673	7.9072e-03	0.0000e+00
61	EMPTY	4.4336	4.4531	4.4445	4.5805e-03	0.0000e+00
62	EMPTY	4.4141	4.4287	4.4221	3.9162e-03	0.0000e+00
63	EMPTY	4.4043	4.4189	4.4112	3.4300e-03	0.0000e+00
64	EMPTY	2.1045	2.1143	2.1082	2.3261e-03	0.0000e+00
65	EMPTY	2.1191	2.1240	2.1211	2.4164e-03	0.0000e+00
66	EMPTY	2.1240	2.1289	2.1279	1.9730e-03	0.0000e+00
67	EMPTY	2.1338	2.1436	2.1379	2.0598e-03	0.0000e+00
68	EMPTY	2.1338	2.1484	2.1427	2.3531e-03	0.0000e+00
69	EMPTY	2.1484	2.1533	2.1516	2.3675e-03	0.0000e+00
70	EMPTY	2.1533	2.1582	2.1573	1.8950e-03	0.0000e+00
71	EMPTY	2.1631	2.1729	2.1718	2.2689e-03	0.0000e+00
72	EMPTY	2.1729	2.1777	2.1768	1.9730e-03	0.0000e+00
73	EMPTY	2.1826	2.1924	2.1873	1.3811e-03	0.0000e+00
74	EMPTY	2.1875	2.1973	2.1927	1.5314e-03	0.0000e+00
75	EMPTY	2.2021	2.2070	2.2023	9.6655e-04	0.0000e+00
76	EMPTY	2.2021	2.2119	2.2076	1.8821e-03	0.0000e+00
77	EMPTY	2.2119	2.2217	2.2188	2.6267e-03	0.0000e+00
78	EMPTY	2.2314	2.2363	2.2320	1.6028e-03	0.0000e+00
79	EMPTY	2.2412	2.2510	2.2468	1.9754e-03	0.0000e+00
80	PAN020136	-19.7512	3.6710	-8.3437	6.3110e+00	8.7025e-01
81	PAN050136	-32.9159	-6.3656	-19.1067	6.4251e+00	1.6807e+00
82	PAN070136	-23.8914	2.2774	-11.8217	7.0894e+00	8.7050e-01
83	PAN080136	-13.8795	1.3793	-7.9988	4.1864e+00	8.7023e-01
84	PAN090136	-13.0990	4.2197	-5.1476	5.3179e+00	8.7010e-01
85	PAN100136	-11.5041	15.4277	3.3946	5.7967e+00	8.7004e-01
86	PAN105136	-6.0235	17.5513	-0.8935	3.6428e+00	8.7000e-01
87	PAN110136	-3.4837	6.2056	2.0674	2.2769e+00	8.7002e-01
88	PAN115136	-7.5597	3.8081	-2.3122	2.7149e+00	8.7002e-01
89	PAN120136	-4.5357	5.9165	0.7087	2.4169e+00	8.7000e-01
90	PAN125136	-6.0323	0.6816	-3.8015	1.8497e+00	8.7005e-01
91	PAN130136	0.1813	8.8026	3.8084	1.7047e+00	8.7005e-01
92	PAN120048	-2.4163	3.6109	0.2967	1.5479e+00	8.7000e-01
93	PAN130048	-4.4014	-1.8074	-3.5042	5.2487e-01	8.7004e-01
94	PAN120224	-5.9567	5.6400	-0.0409	2.3916e+00	8.7000e-01
95	PAN130224	-5.5707	2.9742	-1.7667	2.0527e+00	8.7001e-01
96	PAN120312	-11.3603	3.8222	-1.8418	3.2376e+00	8.7001e-01
97	PAN130312	-4.0376	8.1694	-0.4671	3.0112e+00	8.7000e-01
98	PAB000136	59.7746	60.8274	60.2003	2.3871e-01	5.9921e-01
99	PAB100136	61.4710	62.6154	61.7447	1.5844e-01	6.0019e-01
100	PAB125136	61.7861	62.1981	61.9793	9.5346e-02	6.0034e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.2458	60.8327	60.0198	4.5247e-01	7.6486e-01
102	PRV0000001	19.8406	20.0848	19.8968	6.6221e-02	7.5165e-01
103	PSR0000001	61.1730	61.2950	61.2608	5.5366e-02	7.6548e-01
104	PFM0000001	13.4512	14.0005	13.7844	1.4057e-01	5.0119e-01
105	PAN000136	-64.5003	-31.0836	-48.5243	7.8208e+00	4.9215e+00
106	PFM0000002	13.6416	13.9940	13.8507	9.1293e-02	2.0298e-01
107	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-6.1328	-8.3979	1.2825e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0039	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	VPW0000001	177.4151	178.0011	177.6924	1.1897e-01	1.3389e+00
113	VPW0000002	207.5233	207.9139	207.7812	1.0014e-01	1.4867e+00
114	VPW0000003	256.8021	257.7787	257.1380	1.4785e-01	1.7425e+00
115	VPW0000004	182.0125	182.9890	182.7587	1.6120e-01	1.3633e+00
116	VPW0000005	243.3631	244.1444	243.7187	1.6120e-01	1.6717e+00
117	VPW0000006	258.6125	259.1985	258.8741	1.4557e-01	1.7518e+00
118	IPW0000001	930.0665	945.6852	935.0645	2.5611e+00	1.0963e+01
119	IPW0000002	2217.4678	2240.8828	2228.9021	7.2690e+00	1.9382e+01
120	IPW0000003	2248.3499	2261.9998	2257.9045	2.7647e+00	1.9590e+01
121	IPW0000004	646.7942	653.6301	648.5425	1.5694e+00	5.5000e+00
122	IPW0000005	433.2311	435.1841	434.0611	5.6877e-01	3.9697e+00
123	IPW0000006	447.3032	450.7212	449.4807	1.1257e+00	4.0754e+00
124	EMPTY	-0.0293	-0.0098	-0.0188	3.8219e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0126	2.8058e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0154	3.1752e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.0897e-03	0.0000e+00
128	IHT0000001	219.7341	222.2731	220.8747	6.0019e-01	4.6571e+00
129	IHT0000002	226.3221	228.6658	227.2792	5.6117e-01	4.6878e+00
130	IHT0000003	228.2076	230.7467	229.2194	5.9411e-01	4.6972e+00
131	IHT0000004	223.7643	226.6940	225.1549	6.5273e-01	4.6775e+00
132	IHT0000005	221.6496	224.3840	222.8643	5.8566e-01	4.6666e+00
133	IHT0000006	215.7940	218.5284	216.8369	5.7400e-01	4.6381e+00
134	IHT0000007	225.3306	228.0649	226.2836	5.7540e-01	4.6830e+00
135	IHT0000008	222.7389	225.4733	223.6881	5.7455e-01	4.6705e+00
136	IHT0000009	222.7276	225.4620	223.8994	6.3381e-01	4.6715e+00
137	IHT0000010	53.2565	57.1627	55.2057	6.6789e-01	4.1370e+00
138	IHT0000011	222.2994	226.0103	224.0495	6.6843e-01	4.6722e+00
139	IHT0000012	218.7425	222.2581	220.1682	6.6527e-01	4.6538e+00
140	IHT0000013	158.3984	161.5234	159.6484	6.7428e-01	4.3999e+00
141	IHT0000014	219.1632	222.2882	220.6201	6.6639e-01	4.6559e+00
142	IHT0000015	163.1761	166.4964	164.7738	6.2227e-01	4.4187e+00
143	IHT0000016	151.8029	155.1232	153.3849	6.4507e-01	4.3775e+00
144	IHT0000017	182.6097	185.3441	184.0160	6.5910e-01	4.4940e+00
145	IHT0000018	183.9168	187.4324	185.7489	6.1370e-01	4.5011e+00
146	IHT0000019	178.6734	181.2124	179.9312	5.5686e-01	4.4774e+00
147	IHT0000020	183.9318	186.2755	185.1544	5.5357e-01	4.4987e+00
148	IHT0000021	-3.2039	0.1164	-1.6375	6.9865e-01	4.1000e+00
149	IHT0000022	158.0942	160.6333	159.4419	5.4712e-01	4.3991e+00
150	IHT0000023	179.9504	182.2942	181.0948	5.6636e-01	4.4821e+00
151	IHT0000024	144.3773	146.5257	145.5687	4.9639e-01	4.3507e+00
152	IHT0000025	179.3532	181.5017	180.4899	5.3770e-01	4.4797e+00
153	IHT0000026	181.6932	183.6463	182.7128	4.8535e-01	4.4887e+00
154	IHT0000027	154.6424	157.1815	155.9628	5.8202e-01	4.3866e+00
155	IHT0000028	157.1552	159.8896	158.4131	7.4989e-01	4.3954e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.4012	183.3308	181.7919	7.8089e-01	4.4850e+00
157	IHT000030	183.7703	186.5047	185.2509	7.4878e-01	4.4991e+00
158	IHT000031	180.8368	183.5712	182.3564	6.8945e-01	4.4872e+00
159	IHT000032	183.1092	186.2342	184.7733	6.9948e-01	4.4971e+00
160	IHT000033	182.9365	186.0615	184.6943	7.2114e-01	4.4968e+00
161	IHT000034	161.1253	163.4690	162.3871	5.8289e-01	4.4099e+00
162	IHT000035	212.7855	214.9339	213.9104	5.7799e-01	4.6245e+00
163	IHT000036	159.4013	161.5497	160.4170	5.1900e-01	4.4027e+00

Velocity 1 = 9.4949 (ft/sec) (+/- 2.4715 %)
Velocity 2 = 9.5169 (ft/sec) (+/- 1.7944 %)
Pressure drop = -1.7266 (psi)
Tsats in = 293.0406 (deg F) Tsats out = 294.9231 (deg F)
Phi inner = 298.4441 (kBtu/hr-ft2) (+/- 1.2359 %)
Phi outer = 298.9230 (kBtu/hr-ft2) (+/- 1.2637 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.2466	85.0931	84.6488	1.7235e-01	1.9001e+00
1	TRF000002	84.5785	84.9996	84.8438	1.1099e-01	1.9001e+00
2	TFM000001	86.0808	86.8169	86.4516	1.7393e-01	1.9002e+00
3	TIN000001	85.5233	86.2618	85.8612	1.4134e-01	1.9002e+00
4	TRV000001	87.4449	88.0756	87.7312	1.8195e-01	1.9002e+00
5	TSR000001	156.2508	158.1337	157.3654	5.3325e-01	1.9051e+00
6	TAO020136	147.2909	149.1980	148.2465	4.3888e-01	1.9041e+00
7	TAO050136	216.7782	219.0529	217.7946	6.2058e-01	1.9147e+00
8	TAO070136	211.7023	216.6020	213.8867	9.7602e-01	1.9139e+00
9	TAO080136	254.5065	256.2676	255.6045	3.4530e-01	1.9231e+00
10	TAO090136	264.2455	266.0037	265.2859	4.3092e-01	1.9255e+00
11	TAO100136	259.4301	261.4696	260.4608	4.9036e-01	1.9243e+00
12	TAO105136	267.0818	268.9340	267.9377	3.6316e-01	1.9262e+00
13	TAO110136	100.3039	101.0265	100.5902	1.5286e-01	1.9006e+00
14	TAO115136	272.3732	274.5866	273.4432	4.7758e-01	1.9277e+00
15	TAO120136	297.5539	298.4537	297.9760	2.4645e-01	1.9347e+00
16	TAO125136	269.3754	271.4035	270.5187	4.6345e-01	1.9269e+00
17	TAO130136	285.3206	286.5870	286.0226	2.7223e-01	1.9312e+00
18	TAO120048	121.1144	122.2398	121.6707	3.2000e-01	1.9018e+00
19	TAO130048	304.6076	305.9616	305.2863	2.9162e-01	1.9369e+00
20	TAO120224	293.7346	295.5562	294.6707	3.3975e-01	1.9337e+00
21	TAO130224	275.6054	277.4302	276.5694	3.8388e-01	1.9285e+00
22	TAO120312	293.2939	295.4831	294.5380	5.1052e-01	1.9337e+00
23	TAO130312	300.7045	301.8833	301.3575	2.4768e-01	1.9357e+00
24	TRT020000	210.4070	211.8483	211.0605	3.6731e-01	1.9134e+00
25	TRT070000	258.6332	260.2242	259.5166	3.1360e-01	1.9240e+00
26	TRT100000	295.4833	296.7544	296.2390	2.4792e-01	1.9342e+00
27	TRT120000	459.4574	459.8001	459.6425	7.7992e-02	1.9997e+00
28	TRT125000	104.1363	104.8604	104.4675	1.6426e-01	1.9008e+00
29	TRT130000	310.2380	311.5008	310.7577	3.0508e-01	1.9387e+00
30	EMPTY	39.3761	40.2940	39.8076	2.3477e-01	1.9011e+00
31	TAF050136	141.9856	144.8894	142.9721	6.6992e-01	1.9036e+00
32	TAF070136	164.4380	168.2708	166.2471	8.5681e-01	1.9062e+00
33	TAF080136	259.8897	267.6198	263.6064	1.7351e+00	1.9251e+00
34	TAF090136	100.7905	101.6217	101.1729	2.2133e-01	1.9007e+00
35	TAF100136	200.1023	202.4210	200.9874	4.9362e-01	1.9115e+00
36	TAF105136	205.3828	208.2416	206.5044	5.9275e-01	1.9125e+00
37	TAF110136	212.8930	214.5135	213.6557	3.7684e-01	1.9139e+00
38	TAF115136	219.5613	221.1758	220.3925	4.1182e-01	1.9152e+00
39	TAF120136	271.8137	276.9456	274.5211	1.1783e+00	1.9280e+00
40	TAF125136	231.3705	233.9939	232.8602	5.2585e-01	1.9178e+00
41	TAF130136	235.8350	237.1516	236.4937	3.6937e-01	1.9186e+00
42	TAF120048	237.7456	240.1138	239.0079	5.1635e-01	1.9191e+00
43	TAF130048	253.4658	255.3297	254.3234	4.2011e-01	1.9228e+00
44	TAF120224	220.8692	222.4846	221.6409	4.1927e-01	1.9154e+00
45	TAF130224	229.9653	231.2018	230.5816	2.6643e-01	1.9173e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1445	2.2642e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9453	1.1580e-01	1.9011e+00
48	TAI130048	290.6736	292.1333	291.5641	3.6384e-01	1.9328e+00
49	TAI130136	290.5423	291.9084	291.1760	3.0571e-01	1.9327e+00
50	TAI130224	298.8919	300.5320	299.7921	4.0636e-01	1.9352e+00
51	TAI130312	283.5663	285.0341	284.3374	3.0568e-01	1.9307e+00
52	TRR130000	153.4628	154.7576	154.1717	2.8177e-01	1.9048e+00
53	TSI000001	59.5261	60.1707	59.8442	1.4868e-01	1.9001e+00
54	TSI000002	87.7142	88.9729	88.3814	3.2510e-01	1.9002e+00
55	TSO000001	56.2328	57.0991	56.6832	1.8987e-01	1.9001e+00
56	TSO000002	76.3004	77.2552	76.7804	1.7702e-01	1.9000e+00
57	TAF020136	103.5667	107.3177	105.7598	8.5642e-01	1.9009e+00
58	TAF120312	232.7266	235.5607	233.8945	6.2192e-01	1.9180e+00
59	TAF130312	256.2070	259.6437	257.7975	7.0658e-01	1.9236e+00
60	EMPTY	4.4482	4.4727	4.4564	6.3503e-03	0.0000e+00
61	EMPTY	4.4287	4.4434	4.4331	3.8523e-03	0.0000e+00
62	EMPTY	4.4043	4.4141	4.4101	3.0708e-03	0.0000e+00
63	EMPTY	4.3896	4.4043	4.3979	3.3087e-03	0.0000e+00
64	EMPTY	2.0947	2.1045	2.1018	2.6396e-03	0.0000e+00
65	EMPTY	2.1094	2.1191	2.1142	1.2041e-03	0.0000e+00
66	EMPTY	2.1143	2.1240	2.1205	2.4244e-03	0.0000e+00
67	EMPTY	2.1289	2.1338	2.1295	1.6028e-03	0.0000e+00
68	EMPTY	2.1289	2.1387	2.1342	1.6624e-03	0.0000e+00
69	EMPTY	2.1436	2.1484	2.1437	6.9053e-04	0.0000e+00
70	EMPTY	2.1484	2.1533	2.1489	1.4797e-03	0.0000e+00
71	EMPTY	2.1631	2.1631	2.1631	0.0000e+00	0.0000e+00
72	EMPTY	2.1631	2.1777	2.1682	1.9631e-03	0.0000e+00
73	EMPTY	2.1777	2.1826	2.1784	1.7115e-03	0.0000e+00
74	EMPTY	2.1826	2.1875	2.1857	2.3675e-03	0.0000e+00
75	EMPTY	2.1924	2.1973	2.1936	2.1065e-03	0.0000e+00
76	EMPTY	2.1973	2.2021	2.1998	2.4642e-03	0.0000e+00
77	EMPTY	2.2070	2.2119	2.2114	1.4797e-03	0.0000e+00
78	EMPTY	2.2217	2.2266	2.2237	2.4344e-03	0.0000e+00
79	EMPTY	2.2363	2.2412	2.2396	2.3365e-03	0.0000e+00
80	PAN020136	-19.7512	6.7228	-8.3819	5.3704e+00	8.7025e-01
81	PAN050136	-28.0331	-7.1285	-18.5574	5.6937e+00	1.6806e+00
82	PAN070136	-24.5018	1.8196	-13.9931	7.3913e+00	8.7070e-01
83	PAN080136	-13.8795	3.5918	-7.0512	4.9990e+00	8.7018e-01
84	PAN090136	-13.1753	1.6257	-6.8932	4.1971e+00	8.7017e-01
85	PAN100136	-3.4169	14.9699	4.9647	4.6933e+00	8.7009e-01
86	PAN105136	-7.7020	12.4396	-1.7816	3.5374e+00	8.7001e-01
87	PAN110136	-2.7971	16.5053	2.9371	3.2225e+00	8.7003e-01
88	PAN115136	-6.7967	3.8844	-1.7964	2.2158e+00	8.7001e-01
89	PAN120136	-5.7564	4.2381	0.2815	1.8884e+00	8.7000e-01
90	PAN125136	-5.9560	0.2238	-2.6006	1.5941e+00	8.7002e-01
91	PAN130136	1.0969	7.9633	3.8404	1.5760e+00	8.7005e-01
92	PAN120048	-2.6452	5.0605	0.2128	1.6107e+00	8.7000e-01
93	PAN130048	-4.4014	-1.5022	-3.2005	7.0057e-01	8.7004e-01
94	PAN120224	-4.8886	1.9016	-0.4269	1.5510e+00	8.7000e-01
95	PAN130224	-7.6306	1.6772	-1.8552	2.0081e+00	8.7001e-01
96	PAN120312	-11.8180	3.0593	-2.3332	2.7711e+00	8.7002e-01
97	PAN130312	-4.0376	6.4910	-0.7036	2.5873e+00	8.7000e-01
98	PAB000136	59.8661	60.8732	60.3916	2.2921e-01	5.9933e-01
99	PAB100136	61.7456	62.4323	61.9095	1.2411e-01	6.0030e-01
100	PAB125136	61.9692	62.2439	62.1175	7.5451e-02	6.0043e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.2458	60.8327	60.0491	4.6407e-01	7.6488e-01
102	PRV000001	19.7186	19.8406	19.8016	5.7521e-02	7.5163e-01
103	PSR000001	61.2950	61.4171	61.3805	5.6508e-02	7.6554e-01
104	PFM000001	13.4512	14.0005	13.7332	1.1675e-01	5.0118e-01
105	PAN000136	-61.7537	-32.4568	-47.8011	7.5554e+00	4.9215e+00
106	PFM000002	13.6920	13.9772	13.7974	7.2711e-02	2.0295e-01
107	EMPTY	-0.0049	0.0049	0.0046	1.5314e-03	0.0000e+00
108	EMPTY	-10.0000	-5.6641	-7.6021	1.1973e+00	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0043	1.8821e-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	177.6104	178.0011	177.7315	1.1084e-01	1.3391e+00
113	VPW000002	207.7186	208.3046	207.8124	1.1995e-01	1.4869e+00
114	VPW000003	256.9974	257.3881	257.1849	1.1811e-01	1.7428e+00
115	VPW000004	182.5984	183.1843	182.8094	1.2378e-01	1.3635e+00
116	VPW000005	243.3631	243.9491	243.6288	1.0992e-01	1.6712e+00
117	VPW000006	258.6125	259.1985	258.8780	1.0992e-01	1.7518e+00
118	IPW000001	949.5900	959.3517	952.8306	2.3866e+00	1.1058e+01
119	IPW000002	2196.0037	2207.7114	2200.1787	2.6740e+00	1.9176e+01
120	IPW000003	2240.5498	2252.2498	2246.6731	3.4796e+00	1.9510e+01
121	IPW000004	649.2356	652.1653	650.2515	5.7386e-01	5.5126e+00
122	IPW000005	430.7900	432.2547	431.4538	3.3825e-01	3.9519e+00
123	IPW000006	444.3735	445.8384	445.0959	3.5895e-01	4.0453e+00
124	EMPTY	-0.0244	-0.0098	-0.0185	3.8574e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0130	3.3613e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0150	3.2479e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0165	2.9413e-03	0.0000e+00
128	IHT000001	219.3434	221.8825	220.6325	6.2639e-01	4.6560e+00
129	IHT000002	225.7362	228.0799	227.0800	6.2095e-01	4.6868e+00
130	IHT000003	227.8170	230.1608	228.9616	5.7860e-01	4.6960e+00
131	IHT000004	223.9596	226.1080	224.9167	5.5699e-01	4.6764e+00
132	IHT000005	221.4543	223.4074	222.4503	5.1637e-01	4.6646e+00
133	IHT000006	215.4034	217.9424	216.5401	5.3334e-01	4.6367e+00
134	IHT000007	224.7446	227.2837	225.9828	5.2883e-01	4.6815e+00
135	IHT000008	222.1529	225.0826	223.4108	5.3693e-01	4.6692e+00
136	IHT000009	222.1417	225.2667	223.6143	5.3845e-01	4.6702e+00
137	IHT000010	54.0377	56.5768	55.4439	5.9189e-01	4.1373e+00
138	IHT000011	223.0807	225.6197	224.2799	5.6910e-01	4.6733e+00
139	IHT000012	219.3284	221.6722	220.3557	6.0207e-01	4.6546e+00
140	IHT000013	158.7891	161.1328	159.7773	5.9243e-01	4.4003e+00
141	IHT000014	219.5538	222.0929	220.6475	5.9843e-01	4.6560e+00
142	IHT000015	163.9573	166.3011	164.8832	5.5497e-01	4.4191e+00
143	IHT000016	152.3888	154.7326	153.5372	5.2443e-01	4.3781e+00
144	IHT000017	183.0003	185.5394	184.1097	6.4288e-01	4.4944e+00
145	IHT000018	184.6980	187.2371	185.8466	6.2595e-01	4.5015e+00
146	IHT000019	179.0640	181.6031	180.1539	6.0243e-01	4.4783e+00
147	IHT000020	184.3224	186.6662	185.2599	6.0875e-01	4.4991e+00
148	IHT000021	-2.6179	-0.0789	-1.5164	6.9672e-01	4.1000e+00
149	IHT000022	158.6801	160.6333	159.6020	5.2651e-01	4.3997e+00
150	IHT000023	180.1458	182.4895	181.2823	5.5058e-01	4.4829e+00
151	IHT000024	144.7679	146.7210	145.7367	5.2193e-01	4.3513e+00
152	IHT000025	179.5486	181.5017	180.6422	5.1297e-01	4.4803e+00
153	IHT000026	181.6932	184.0370	182.8222	5.4859e-01	4.4891e+00
154	IHT000027	154.8377	157.1815	156.1112	5.5136e-01	4.3871e+00
155	IHT000028	157.3505	159.8896	158.4677	5.5809e-01	4.3956e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.5965	183.1355	181.8309	5.8052e-01	4.4851e+00
157	IHT000030	184.1609	186.5047	185.2587	6.1497e-01	4.4991e+00
158	IHT000031	181.2275	183.5712	182.4033	6.5731e-01	4.4874e+00
159	IHT000032	183.3045	186.4295	184.8163	6.5055e-01	4.4973e+00
160	IHT000033	183.1318	186.4521	184.7568	6.8623e-01	4.4971e+00
161	IHT000034	161.3206	163.6644	162.3832	5.4556e-01	4.4099e+00
162	IHT000035	212.9808	215.5199	213.8401	5.2497e-01	4.6241e+00
163	IHT000036	159.5966	162.1357	160.4404	5.1966e-01	4.4027e+00

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Velocity 1 = 0.017900 (ft/sec)

Velocity 2 = 0.018500 (ft/sec)

Pressure Drop = 0.026100 (psi)

Tsat in = 0.210785 (deg F) Tsat out = 0.149506 (deg F)

Phi inner = 1.686401 (kBtu/hr-ft2) Phi outer = 1.066284 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF0000001	0.0296	0.0349
1	TRF0000002	0.0337	0.0397
2	TFM0000001	0.4469	0.5143
3	TIN0000001	0.4193	0.4860
4	TRV0000001	0.3368	0.3824
5	TSR0000001	1.2344	0.7906
6	TAO020136	0.1436	0.0970
7	TAO050136	0.0363	0.0167
8	TAO070136	0.3131	0.1462
9	TAO080136	0.3204	0.1252
10	TAO090136	0.4936	0.1857
11	TAO100136	0.4618	0.1770
12	TAO105136	0.8130	0.3025
13	TAO110136	0.0223	0.0222
14	TAO115136	0.1790	0.0654
15	TAO120136	0.6715	0.2248
16	TAO125136	0.6650	0.2452
17	TAO130136	0.3667	0.1280
18	TAO120048	0.4391	0.3622
19	TAO130048	0.2403	0.0787
20	TAO120224	0.5335	0.1807
21	TAO130224	0.4577	0.1652
22	TAO120312	0.3848	0.1305
23	TAO130312	0.4400	0.1458
24	TRT020000	0.0519	0.0246
25	TRT070000	0.3350	0.1289
26	TRT100000	0.2161	0.0729
27	TRT120000	0.0256	0.0056
28	TRT125000	0.3070	0.2930
29	TRT130000	0.5640	0.1812
30	EMPTY	0.0367	0.0921
31	TAF050136	0.2866	0.2001
32	TAF070136	0.4267	0.2560
33	TAF080136	0.2965	0.1123
34	TAF090136	0.3631	0.3576
35	TAF100136	0.1643	0.0817
36	TAF105136	0.3567	0.1724
37	TAF110136	0.3450	0.1612
38	TAF115136	0.4807	0.2176
39	TAF120136	0.5812	0.2113
40	TAF125136	0.5079	0.2176
41	TAF130136	0.3291	0.1390
42	TAF120048	0.3200	0.1337
43	TAF130048	0.3522	0.1383
44	TAF120224	0.5036	0.2267
45	TAF130224	0.3937	0.1704

#	Name	Abs Diff	%Diff
46	EMPTY	0.0505	0.1326
47	EMPTY	0.0781	0.1951
48	TAI130048	0.3813	0.1306
49	TAI130136	0.2966	0.1020
50	TAI130224	0.1841	0.0615
51	TAI130312	0.0495	0.0174
52	TRR130000	1.1110	0.7259
53	TSI000001	0.0492	0.0823
54	TSI000002	1.0614	1.1867
55	TSO000001	0.0931	0.1640
56	TSO000002	0.2142	0.2782
57	TAF020136	0.5435	0.5113
58	TAF120312	0.5421	0.2312
59	TAF130312	0.4811	0.1863
60	EMPTY	0.0109	0.2440
61	EMPTY	0.0114	0.2565
62	EMPTY	0.0120	0.2714
63	EMPTY	0.0133	0.3015
64	EMPTY	0.0064	0.3036
65	EMPTY	0.0069	0.3253
66	EMPTY	0.0074	0.3478
67	EMPTY	0.0084	0.3929
68	EMPTY	0.0085	0.3967
69	EMPTY	0.0079	0.3672
70	EMPTY	0.0084	0.3894
71	EMPTY	0.0087	0.4006
72	EMPTY	0.0086	0.3951
73	EMPTY	0.0089	0.4069
74	EMPTY	0.0070	0.3192
75	EMPTY	0.0087	0.3950
76	EMPTY	0.0078	0.3533
77	EMPTY	0.0074	0.3335
78	EMPTY	0.0083	0.3719
79	EMPTY	0.0072	0.3205
80	PAN020136	0.0382	0.4578
81	PAN050136	0.5493	2.8749
82	PAN070136	2.1714	18.3679
83	PAN080136	0.9476	11.8468
84	PAN090136	1.7456	33.9109
85	PAN100136	1.5701	46.2529
86	PAN105136	0.8881	99.3956
87	PAN110136	0.8697	42.0673
88	PAN115136	0.5158	22.3078
89	PAN120136	0.4272	60.2794
90	PAN125136	1.2009	31.5902
91	PAN130136	0.0320	0.8402
92	PAN120048	0.0839	28.2777
93	PAN130048	0.3037	8.6667
94	PAN120224	0.3860	943.7654
95	PAN130224	0.0885	5.0093
96	PAN120312	0.4914	26.6804
97	PAN130312	0.2365	50.6316
98	PAB000136	0.1913	0.3178
99	PAB100136	0.1648	0.2669
100	PAB125136	0.1382	0.2230

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0293	0.0488
102	PRV000001	0.0952	0.4785
103	PSR000001	0.1197	0.1954
104	PFM000001	0.0512	0.3714
105	PAN000136	0.7232	1.4904
106	PFM000002	0.0533	0.3848
107	EMPTY	0.0001	2.1277
108	EMPTY	0.7958	9.4762
109	EMPTY	0.0004	10.2564
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0391	0.0220
113	VPW000002	0.0312	0.0150
114	VPW000003	0.0469	0.0182
115	VPW000004	0.0507	0.0277
116	VPW000005	0.0899	0.0369
117	VPW000006	0.0039	0.0015
118	IPW000001	17.7661	1.9000
119	IPW000002	28.7234	1.2887
120	IPW000003	11.2314	0.4974
121	IPW000004	1.7090	0.2635
122	IPW000005	2.6073	0.6007
123	IPW000006	4.3848	0.9755
124	EMPTY	0.0003	1.5957
125	EMPTY	0.0004	3.1746
126	EMPTY	0.0004	2.5974
127	EMPTY	0.0006	3.7736
128	IHT000001	0.2422	0.1096
129	IHT000002	0.1992	0.0876
130	IHT000003	0.2578	0.1125
131	IHT000004	0.2382	0.1058
132	IHT000005	0.4140	0.1858
133	IHT000006	0.2968	0.1369
134	IHT000007	0.3008	0.1329
135	IHT000008	0.2773	0.1240
136	IHT000009	0.2851	0.1273
137	IHT000010	0.2382	0.4315
138	IHT000011	0.2304	0.1028
139	IHT000012	0.1875	0.0852
140	IHT000013	0.1289	0.0807
141	IHT000014	0.0274	0.0124
142	IHT000015	0.1094	0.0664
143	IHT000016	0.1523	0.0993
144	IHT000017	0.0937	0.0509
145	IHT000018	0.0977	0.0526
146	IHT000019	0.2227	0.1238
147	IHT000020	0.1055	0.0570
148	IHT000021	0.1211	7.3954
149	IHT000022	0.1601	0.1004
150	IHT000023	0.1875	0.1035
151	IHT000024	0.1680	0.1154
152	IHT000025	0.1523	0.0844
153	IHT000026	0.1094	0.0599
154	IHT000027	0.1484	0.0952
155	IHT000028	0.0546	0.0345

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0390	0.0215
157	IHT000030	0.0078	0.0042
158	IHT000031	0.0469	0.0257
159	IHT000032	0.0430	0.0233
160	IHT000033	0.0625	0.0338
161	IHT000034	0.0039	0.0024
162	IHT000035	0.0703	0.0329
163	IHT000036	0.0234	0.0146

Velocity 1 = 9.0381 (ft/sec) (+/- 2.6151 %)
Velocity 2 = 9.0504 (ft/sec) (+/- 1.8209 %)
Pressure drop = -1.8450 (psi)
Tsats in = 293.1857 (deg F) Tsats out = 295.1890 (deg F)
Phi inner = 300.4649 (kBtu/hr-ft2) (+/- 1.2351 %)
Phi outer = 300.2937 (kBtu/hr-ft2) (+/- 1.2635 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.2466	84.8816	84.6657	1.8385e-01	1.9001e+00
1	TRF000002	84.5785	84.9996	84.8480	1.3476e-01	1.9001e+00
2	TFM000001	85.9766	86.7127	86.2901	1.7823e-01	1.9002e+00
3	TIN000001	85.4186	85.8404	85.6948	1.2584e-01	1.9002e+00
4	TRV000001	87.0266	87.8665	87.5829	2.1412e-01	1.9002e+00
5	TSR000001	156.6472	159.7179	157.9416	6.4833e-01	1.9052e+00
6	TAO020136	145.3800	147.6927	146.3519	5.0151e-01	1.9039e+00
7	TAO050136	219.9974	222.9316	221.0839	7.0655e-01	1.9153e+00
8	TAO070136	217.2731	221.2950	219.0266	8.5964e-01	1.9149e+00
9	TAO080136	261.2557	262.8242	261.8915	3.7383e-01	1.9246e+00
10	TAO090136	272.3639	274.2963	273.4193	3.6204e-01	1.9277e+00
11	TAO100136	267.2964	268.9604	268.1897	3.9378e-01	1.9263e+00
12	TAO105136	274.5709	276.5078	275.5618	4.7457e-01	1.9283e+00
13	TAO110136	98.8621	99.3815	99.1339	1.4666e-01	1.9006e+00
14	TAO115136	279.5556	281.2106	280.3817	4.1208e-01	1.9296e+00
15	TAO120136	304.8189	305.8173	305.3510	2.5116e-01	1.9370e+00
16	TAO125136	275.5418	277.0108	276.2957	3.6525e-01	1.9285e+00
17	TAO130136	292.5244	293.6943	293.1323	2.9021e-01	1.9333e+00
18	TAO120048	120.7062	121.8309	121.3582	2.9127e-01	1.9018e+00
19	TAO130048	315.6786	316.6679	316.1983	2.2488e-01	1.9404e+00
20	TAO120224	301.2795	302.7308	302.0651	3.4662e-01	1.9359e+00
21	TAO130224	283.2469	284.6988	283.9038	3.3289e-01	1.9306e+00
22	TAO120312	302.6691	304.0310	303.2773	3.3234e-01	1.9363e+00
23	TAO130312	308.4767	309.8309	308.9305	2.9982e-01	1.9381e+00
24	TRT020000	214.7255	216.0672	215.4330	3.4565e-01	1.9142e+00
25	TRT070000	267.5072	268.9973	268.2428	3.4590e-01	1.9263e+00
26	TRT100000	304.4498	305.8067	305.1247	3.4328e-01	1.9369e+00
27	TRT120000	459.4574	459.7997	459.6509	9.8945e-02	1.9997e+00
28	TRT125000	101.4573	102.3886	101.9683	2.0328e-01	1.9007e+00
29	TRT130000	315.9966	317.1666	316.5998	2.2125e-01	1.9405e+00
30	EMPTY	39.3761	40.2940	39.7939	2.3501e-01	1.9011e+00
31	TAF050136	143.7886	146.7888	145.4391	8.0214e-01	1.9038e+00
32	TAF070136	168.1716	171.7003	169.9117	9.2944e-01	1.9067e+00
33	TAF080136	265.8711	272.2943	269.7880	1.2882e+00	1.9267e+00
34	TAF090136	99.7519	100.6883	100.1747	2.6425e-01	1.9006e+00
35	TAF100136	204.5421	207.1433	205.7665	4.4896e-01	1.9124e+00
36	TAF105136	210.4306	212.3298	211.4461	3.2926e-01	1.9134e+00
37	TAF110136	218.4121	220.2178	219.1714	3.6142e-01	1.9149e+00
38	TAF115136	225.4403	226.9565	226.1740	3.7919e-01	1.9164e+00
39	TAF120136	275.9396	279.3233	277.4753	7.8120e-01	1.9288e+00
40	TAF125136	238.8566	240.6301	239.7795	4.5505e-01	1.9193e+00
41	TAF130136	243.1544	244.7459	243.8341	3.5423e-01	1.9202e+00
42	TAF120048	247.7616	249.9261	248.9383	4.9875e-01	1.9214e+00
43	TAF130048	269.8816	272.6482	271.2776	5.8938e-01	1.9271e+00
44	TAF120224	226.4672	228.7402	227.5302	5.1372e-01	1.9166e+00
45	TAF130224	235.9491	237.1806	236.6555	2.8848e-01	1.9186e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1492	2.1087e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0922	1.1008e-01	1.9011e+00
48	TAI130048	298.0508	299.3243	298.5627	2.6813e-01	1.9349e+00
49	TAI130136	298.2653	299.3531	298.7974	2.6952e-01	1.9349e+00
50	TAI130224	304.6248	306.0779	305.3968	3.1899e-01	1.9370e+00
51	TAI130312	290.7114	292.1730	291.5500	3.2281e-01	1.9328e+00
52	TRR130000	155.7483	157.4349	156.5597	3.8857e-01	1.9050e+00
53	TSI000001	59.5261	60.4924	60.0178	2.2135e-01	1.9001e+00
54	TSI000002	89.5998	90.7508	90.1750	3.0803e-01	1.9003e+00
55	TSO000001	56.2328	57.2068	56.7200	2.1442e-01	1.9001e+00
56	TSO000002	77.1482	78.2087	77.6979	2.1812e-01	1.9000e+00
57	TAF020136	105.5478	108.4611	106.8448	7.9980e-01	1.9009e+00
58	TAF120312	240.4597	242.7171	241.7409	5.6953e-01	1.9198e+00
59	TAF130312	264.2746	266.9571	265.4720	5.8501e-01	1.9256e+00
60	EMPTY	4.6436	4.6680	4.6560	5.8536e-03	0.0000e+00
61	EMPTY	4.6240	4.6387	4.6306	4.1397e-03	0.0000e+00
62	EMPTY	4.5996	4.6143	4.6063	3.1023e-03	0.0000e+00
63	EMPTY	4.5850	4.5996	4.5926	3.5786e-03	0.0000e+00
64	EMPTY	2.1875	2.1973	2.1880	2.0337e-03	0.0000e+00
65	EMPTY	2.1973	2.2021	2.1994	2.4484e-03	0.0000e+00
66	EMPTY	2.2021	2.2168	2.2063	2.4184e-03	0.0000e+00
67	EMPTY	2.2119	2.2168	2.2158	1.9730e-03	0.0000e+00
68	EMPTY	2.2119	2.2217	2.2187	2.5894e-03	0.0000e+00
69	EMPTY	2.2266	2.2266	2.2266	0.0000e+00	0.0000e+00
70	EMPTY	2.2314	2.2363	2.2320	1.6028e-03	0.0000e+00
71	EMPTY	2.2412	2.2461	2.2458	1.1714e-03	0.0000e+00
72	EMPTY	2.2461	2.2559	2.2510	9.8648e-04	0.0000e+00
73	EMPTY	2.2607	2.2656	2.2608	6.9053e-04	0.0000e+00
74	EMPTY	2.2656	2.2754	2.2663	1.9754e-03	0.0000e+00
75	EMPTY	2.2705	2.2754	2.2753	6.9053e-04	0.0000e+00
76	EMPTY	2.2803	2.2852	2.2804	6.9053e-04	0.0000e+00
77	EMPTY	2.2900	2.2949	2.2902	9.6655e-04	0.0000e+00
78	EMPTY	2.2998	2.3047	2.3045	9.6655e-04	0.0000e+00
79	EMPTY	2.3145	2.3242	2.3193	9.8648e-04	0.0000e+00
80	PAN020136	-19.7512	5.1206	-8.4704	5.6471e+00	8.7026e-01
81	PAN050136	-31.2374	-4.8397	-19.8238	5.7715e+00	1.6807e+00
82	PAN070136	-24.5018	-0.9270	-13.9656	6.4489e+00	8.7070e-01
83	PAN080136	-13.8795	0.8452	-6.7124	3.9744e+00	8.7016e-01
84	PAN090136	-13.1753	5.1353	-6.9375	4.8772e+00	8.7017e-01
85	PAN100136	-2.0437	24.7355	8.0806	6.9664e+00	8.7023e-01
86	PAN105136	-5.3369	3.2080	-0.5853	1.8393e+00	8.7000e-01
87	PAN110136	-5.7726	5.1375	-0.9065	2.2420e+00	8.7000e-01
88	PAN115136	-4.7368	5.1051	-0.8351	2.1618e+00	8.7000e-01
89	PAN120136	-3.5439	3.3226	0.1823	1.7606e+00	8.7000e-01
90	PAN125136	-1.9124	2.3600	-0.3026	9.5107e-01	8.7000e-01
91	PAN130136	-0.8105	1.3258	-0.0765	4.1097e-01	8.7000e-01
92	PAN120048	-4.7051	-1.5771	-3.5546	7.2130e-01	8.7005e-01
93	PAN130048	-0.7393	0.0237	-0.4127	1.9438e-01	8.7000e-01
94	PAN120224	-2.4472	3.5037	-0.1111	1.6224e+00	8.7000e-01
95	PAN130224	-3.8160	-0.6879	-2.5220	7.9585e-01	8.7002e-01
96	PAN120312	-1.5184	5.1955	0.8635	1.6498e+00	8.7000e-01
97	PAN130312	-2.5117	-0.7570	-1.6832	4.2043e-01	8.7001e-01
98	PAB000136	60.1408	61.0106	60.5235	2.1286e-01	5.9941e-01
99	PAB100136	62.0203	62.3407	62.1613	7.0335e-02	6.0046e-01
100	PAB125136	62.2439	62.4270	62.3638	5.3839e-02	6.0059e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.6120	61.0769	60.4226	4.3335e-01	7.6506e-01
102	PRV0000001	19.7186	19.8406	19.8162	4.9324e-02	7.5163e-01
103	PSR0000001	61.7833	62.0275	61.8883	4.9385e-02	7.6579e-01
104	PFM0000001	12.1694	12.6272	12.4313	1.0944e-01	5.0096e-01
105	PAN000136	-62.6693	-34.7457	-51.0786	7.1627e+00	4.9217e+00
106	PFM0000002	12.3664	12.5677	12.4657	4.4825e-02	2.0241e-01
107	EMPTY	-0.0049	0.0049	0.0046	1.5314e-03	0.0000e+00
108	EMPTY	-10.0000	-4.2529	-7.5404	1.3424e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0040	1.8950e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	177.6104	178.0011	177.7198	1.0559e-01	1.3391e+00
113	VPW0000002	207.7186	208.3046	207.8905	1.1599e-01	1.4873e+00
114	VPW0000003	256.9974	257.3881	257.3021	1.0559e-01	1.7434e+00
115	VPW0000004	182.5984	182.9890	182.8524	1.2001e-01	1.3637e+00
116	VPW0000005	243.3631	243.9491	243.6874	1.2232e-01	1.6715e+00
117	VPW0000006	258.4172	259.1985	258.9171	1.3760e-01	1.7520e+00
118	IPW0000001	930.0665	939.8282	934.9476	2.0209e+00	1.0962e+01
119	IPW0000002	2223.3215	2238.9316	2232.3750	5.2707e+00	1.9407e+01
120	IPW0000003	2256.1499	2261.9998	2259.1135	1.5876e+00	1.9599e+01
121	IPW0000004	646.3059	651.1887	648.2593	1.6857e+00	5.4979e+00
122	IPW0000005	432.7429	434.6958	433.6510	4.0681e-01	3.9669e+00
123	IPW0000006	449.2563	450.7212	449.7736	4.4567e-01	4.0774e+00
124	EMPTY	-0.0293	-0.0098	-0.0188	4.1102e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0126	3.1335e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0149	3.4751e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.3146e-03	0.0000e+00
128	IHT0000001	219.1481	221.8825	220.7731	6.4530e-01	4.6566e+00
129	IHT0000002	225.7362	228.2752	227.2831	6.3729e-01	4.6878e+00
130	IHT0000003	227.6217	230.1608	229.1139	6.3841e-01	4.6967e+00
131	IHT0000004	223.1783	225.9127	224.8971	6.6848e-01	4.6763e+00
132	IHT0000005	221.2590	223.6028	222.6534	5.6360e-01	4.6656e+00
133	IHT0000006	215.0128	217.7471	216.7549	6.2245e-01	4.6377e+00
134	IHT0000007	224.5493	227.2837	226.2250	6.1522e-01	4.6827e+00
135	IHT0000008	221.9576	224.6920	223.6139	6.1414e-01	4.6702e+00
136	IHT0000009	221.7510	225.0714	223.8057	6.7455e-01	4.6711e+00
137	IHT0000010	53.8424	56.5768	55.2799	7.2088e-01	4.1371e+00
138	IHT0000011	222.4947	225.4244	224.0495	6.5312e-01	4.6722e+00
139	IHT0000012	218.7425	221.2816	220.0979	6.3062e-01	4.6534e+00
140	IHT0000013	158.3984	160.5469	159.6211	5.3059e-01	4.3998e+00
141	IHT0000014	219.1632	221.3116	220.5108	5.4712e-01	4.6554e+00
142	IHT0000015	163.3714	165.7151	164.7347	5.4461e-01	4.4186e+00
143	IHT0000016	151.9982	154.3419	153.3810	5.4081e-01	4.3775e+00
144	IHT0000017	182.0237	185.3441	184.0238	6.3938e-01	4.4940e+00
145	IHT0000018	183.9168	187.0418	185.7450	6.8885e-01	4.5011e+00
146	IHT0000019	178.6734	181.4077	179.9898	5.7563e-01	4.4777e+00
147	IHT0000020	183.9318	186.6662	185.1114	5.8522e-01	4.4985e+00
148	IHT0000021	-3.2039	0.1164	-1.5554	7.2990e-01	4.1000e+00
149	IHT0000022	158.0942	160.8286	159.4653	6.1951e-01	4.3992e+00
150	IHT0000023	179.7551	182.4895	181.1495	6.4599e-01	4.4824e+00
151	IHT0000024	144.1820	146.7210	145.5453	5.8192e-01	4.3507e+00
152	IHT0000025	179.1579	181.5017	180.4469	5.9973e-01	4.4795e+00
153	IHT0000026	181.4979	184.0370	182.6386	6.3179e-01	4.4884e+00
154	IHT0000027	154.8377	157.3768	156.0136	6.6203e-01	4.3868e+00
155	IHT0000028	157.1552	159.6942	158.2998	6.0104e-01	4.3950e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.5965	182.7449	181.7177	5.9818e-01	4.4847e+00
157	IHT000030	183.7703	186.5047	185.1415	6.1699e-01	4.4986e+00
158	IHT000031	181.0322	183.5712	182.3134	6.2907e-01	4.4871e+00
159	IHT000032	183.3045	186.2342	184.7226	6.5413e-01	4.4969e+00
160	IHT000033	183.3271	186.2568	184.6670	6.6029e-01	4.4967e+00
161	IHT000034	161.1253	163.4690	162.3324	5.5199e-01	4.4097e+00
162	IHT000035	212.5902	214.9339	213.8128	5.6471e-01	4.6240e+00
163	IHT000036	159.0107	161.3544	160.3857	5.3519e-01	4.4025e+00

Velocity 1 = 9.0638 (ft/sec) (+/- 2.6063 %)
Velocity 2 = 9.0738 (ft/sec) (+/- 1.8194 %)
Pressure drop = -1.8443 (psi)
Tsats in = 292.8924 (deg F) Tsats out = 294.8211 (deg F)
Phi inner = 299.7037 (kBtu/hr-ft2) (+/- 1.2354 %)
Phi outer = 300.8082 (kBtu/hr-ft2) (+/- 1.2629 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.2466	84.8816	84.6276	1.5998e-01	1.9001e+00
1	TRF000002	84.5785	84.9996	84.8480	1.3476e-01	1.9001e+00
2	TFM000001	85.9766	86.7118	86.3424	1.6337e-01	1.9002e+00
3	TIN000001	85.4186	86.0511	85.7179	1.3699e-01	1.9002e+00
4	TRV000001	87.2357	88.1790	87.6684	2.1029e-01	1.9002e+00
5	TSR000001	157.2431	161.2987	159.7198	1.1012e+00	1.9054e+00
6	TAO020136	144.5755	147.0894	145.6217	5.9623e-01	1.9038e+00
7	TAO050136	219.8104	222.8383	221.2824	6.5026e-01	1.9154e+00
8	TAO070136	216.8902	220.5295	218.4155	7.7917e-01	1.9148e+00
9	TAO080136	261.1606	262.7309	261.9633	3.7914e-01	1.9247e+00
10	TAO090136	272.9160	274.5723	273.7926	3.5134e-01	1.9278e+00
11	TAO100136	267.1117	268.7758	268.0067	4.2158e-01	1.9262e+00
12	TAO105136	274.2942	276.1394	275.2722	4.3228e-01	1.9282e+00
13	TAO110136	98.7580	99.5875	99.1316	1.8134e-01	1.9006e+00
14	TAO115136	278.6367	281.1183	279.9276	5.7142e-01	1.9295e+00
15	TAO120136	304.5474	305.5454	305.1061	2.3643e-01	1.9369e+00
16	TAO125136	275.7235	276.7347	276.1468	2.9472e-01	1.9284e+00
17	TAO130136	292.8839	294.0535	293.4356	2.7948e-01	1.9333e+00
18	TAO120048	121.6252	123.0558	122.3119	3.0050e-01	1.9018e+00
19	TAO130048	315.5884	316.4885	316.0600	2.2138e-01	1.9404e+00
20	TAO120224	301.0075	302.2769	301.5336	2.9781e-01	1.9358e+00
21	TAO130224	282.7920	284.2490	283.6477	3.2153e-01	1.9305e+00
22	TAO120312	302.4874	304.1212	303.2827	3.8892e-01	1.9363e+00
23	TAO130312	308.4767	309.7400	308.9466	3.1529e-01	1.9381e+00
24	TRT020000	214.9176	216.0672	215.3046	3.2204e-01	1.9142e+00
25	TRT070000	267.5995	269.2757	268.4160	3.6006e-01	1.9263e+00
26	TRT100000	304.1796	305.5350	304.8662	3.1040e-01	1.9368e+00
27	TRT120000	459.4574	459.7997	459.6355	1.0193e-01	1.9997e+00
28	TRT125000	101.9724	102.8009	102.3825	2.0160e-01	1.9007e+00
29	TRT130000	315.1879	316.5371	315.8145	3.1151e-01	1.9403e+00
30	EMPTY	39.3761	40.0646	39.8352	2.1248e-01	1.9011e+00
31	TAF050136	143.4874	147.0888	145.2211	7.5400e-01	1.9038e+00
32	TAF070136	167.9758	171.7988	169.5763	9.1202e-01	1.9067e+00
33	TAF080136	266.3322	272.0204	269.8300	1.2020e+00	1.9267e+00
34	TAF090136	99.2329	100.0655	99.6367	2.3069e-01	1.9006e+00
35	TAF100136	204.7354	206.3731	205.4215	4.3686e-01	1.9123e+00
36	TAF105136	210.4279	211.9501	211.1894	3.8825e-01	1.9134e+00
37	TAF110136	218.0328	219.7441	218.9680	4.1037e-01	1.9149e+00
38	TAF115136	225.4413	227.2395	226.2817	3.9831e-01	1.9164e+00
39	TAF120136	275.4807	279.0517	277.1220	7.5322e-01	1.9287e+00
40	TAF125136	238.7602	240.6280	239.7849	4.0440e-01	1.9193e+00
41	TAF130136	243.2473	244.7444	244.0753	3.5200e-01	1.9203e+00
42	TAF120048	248.2324	250.4903	249.2752	5.0144e-01	1.9215e+00
43	TAF130048	270.6178	272.8318	271.6887	5.2734e-01	1.9272e+00
44	TAF120224	226.4672	228.2673	227.3919	4.0148e-01	1.9166e+00
45	TAF130224	235.9482	236.9911	236.3049	2.6080e-01	1.9185e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0940	2.2799e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0280	1.0732e-01	1.9011e+00
48	TAI130048	297.6877	299.0516	298.3681	3.3437e-01	1.9348e+00
49	TAI130136	298.8997	300.3517	299.6728	3.0665e-01	1.9352e+00
50	TAI130224	304.0793	305.8964	305.2024	4.1840e-01	1.9369e+00
51	TAI130312	290.2536	292.0821	290.8572	3.7856e-01	1.9326e+00
52	TRR130000	156.9370	158.9196	157.8817	5.0002e-01	1.9052e+00
53	TSI000001	59.6331	60.4913	60.0241	1.6769e-01	1.9001e+00
54	TSI000002	90.0182	91.2735	90.4948	2.7815e-01	1.9003e+00
55	TSO000001	56.3406	56.9909	56.6962	2.0279e-01	1.9001e+00
56	TSO000002	77.2547	78.2087	77.6576	2.1731e-01	1.9000e+00
57	TAF020136	104.9217	108.1501	106.5513	7.6962e-01	1.9009e+00
58	TAF120312	240.5538	243.1863	241.6450	6.1440e-01	1.9197e+00
59	TAF130312	263.9968	266.5867	265.4885	5.8209e-01	1.9256e+00
60	EMPTY	4.6436	4.6729	4.6568	7.1844e-03	0.0000e+00
61	EMPTY	4.6191	4.6436	4.6320	5.1975e-03	0.0000e+00
62	EMPTY	4.5996	4.6143	4.6090	3.3944e-03	0.0000e+00
63	EMPTY	4.5898	4.5996	4.5965	2.9197e-03	0.0000e+00
64	EMPTY	2.1875	2.1924	2.1896	2.4344e-03	0.0000e+00
65	EMPTY	2.1973	2.2070	2.2020	1.3811e-03	0.0000e+00
66	EMPTY	2.2070	2.2119	2.2075	1.4797e-03	0.0000e+00
67	EMPTY	2.2168	2.2217	2.2174	1.6028e-03	0.0000e+00
68	EMPTY	2.2168	2.2266	2.2214	1.5314e-03	0.0000e+00
69	EMPTY	2.2266	2.2314	2.2303	2.1065e-03	0.0000e+00
70	EMPTY	2.2314	2.2412	2.2361	1.3811e-03	0.0000e+00
71	EMPTY	2.2412	2.2559	2.2489	2.9742e-03	0.0000e+00
72	EMPTY	2.2510	2.2607	2.2540	2.7709e-03	0.0000e+00
73	EMPTY	2.2607	2.2705	2.2640	2.5362e-03	0.0000e+00
74	EMPTY	2.2656	2.2754	2.2705	1.3951e-03	0.0000e+00
75	EMPTY	2.2754	2.2803	2.2790	2.1635e-03	0.0000e+00
76	EMPTY	2.2803	2.2900	2.2843	2.3531e-03	0.0000e+00
77	EMPTY	2.2900	2.2998	2.2950	1.8429e-03	0.0000e+00
78	EMPTY	2.3047	2.3096	2.3080	2.3008e-03	0.0000e+00
79	EMPTY	2.3193	2.3291	2.3229	2.4244e-03	0.0000e+00
80	PAN020136	-19.7512	5.5021	-9.8330	6.7401e+00	8.7035e-01
81	PAN050136	-29.4064	-3.3138	-17.7425	6.6763e+00	1.6806e+00
82	PAN070136	-24.5781	-1.4610	-16.1201	5.7629e+00	8.7093e-01
83	PAN080136	-13.8795	5.4229	-2.9496	3.7724e+00	8.7003e-01
84	PAN090136	-13.0990	2.5413	-6.5621	4.2832e+00	8.7015e-01
85	PAN100136	-2.8066	18.4031	5.2073	4.9626e+00	8.7010e-01
86	PAN105136	-4.4214	2.8266	-0.8401	1.4711e+00	8.7000e-01
87	PAN110136	-3.7889	3.3064	0.0502	1.8894e+00	8.7000e-01
88	PAN115136	-7.5597	2.9689	-2.3518	2.8243e+00	8.7002e-01
89	PAN120136	-4.8409	6.0691	1.0551	2.9070e+00	8.7000e-01
90	PAN125136	-1.3784	2.1311	-0.0753	9.7276e-01	8.7000e-01
91	PAN130136	-1.0394	0.4865	-0.2261	3.3826e-01	8.7000e-01
92	PAN120048	-4.3999	-1.1193	-3.4188	6.4277e-01	8.7004e-01
93	PAN130048	-0.9682	0.1763	-0.4860	2.8648e-01	8.7000e-01
94	PAN120224	-5.0412	4.0378	-0.8374	2.0781e+00	8.7000e-01
95	PAN130224	-3.0530	0.8380	-1.3532	9.9643e-01	8.7001e-01
96	PAN120312	-1.8998	4.3563	0.9230	1.5771e+00	8.7000e-01
97	PAN130312	-2.0540	-0.6044	-1.4085	3.1859e-01	8.7001e-01
98	PAB000136	59.6830	60.7359	60.2571	2.9612e-01	5.9924e-01
99	PAB100136	61.6541	62.0203	61.8363	8.5510e-02	6.0025e-01
100	PAB125136	61.9234	62.1523	62.0232	5.9714e-02	6.0037e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.2458	60.9548	60.1174	4.7695e-01	7.6491e-01
102	PRV0000001	19.7186	19.8406	19.7967	5.9189e-02	7.5163e-01
103	PSR0000001	61.4171	61.6613	61.5660	5.6722e-02	7.6563e-01
104	PFM0000001	12.3526	12.8103	12.5027	1.0747e-01	5.0098e-01
105	PAN000136	-65.4158	-35.6612	-51.0603	8.9185e+00	4.9217e+00
106	PFM0000002	12.4335	12.7188	12.5308	6.7375e-02	2.0244e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-6.0156	-7.8056	1.2428e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0042	1.7115e-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	1.3811e-03	0.0000e+00
112	VPW0000001	177.4151	178.0011	177.7706	1.3491e-01	1.3393e+00
113	VPW0000002	207.5233	208.1092	207.8788	1.0942e-01	1.4872e+00
114	VPW0000003	257.1927	257.5834	257.3372	1.1712e-01	1.7436e+00
115	VPW0000004	182.5984	182.9890	182.8055	1.1443e-01	1.3635e+00
116	VPW0000005	243.5584	243.9491	243.7460	8.7880e-02	1.6718e+00
117	VPW0000006	258.6125	259.3938	258.9601	1.4385e-01	1.7522e+00
118	IPW0000001	933.9712	949.5900	944.0062	4.3389e+00	1.1010e+01
119	IPW0000002	2217.4678	2235.0291	2227.5757	6.0392e+00	1.9373e+01
120	IPW0000003	2246.3999	2258.0999	2254.1995	3.2487e+00	1.9564e+01
121	IPW0000004	647.2825	653.6301	651.8628	1.9850e+00	5.5245e+00
122	IPW0000005	433.7194	435.1841	434.3736	3.5027e-01	3.9718e+00
123	IPW0000006	446.8149	448.2798	447.4494	4.0971e-01	4.0614e+00
124	EMPTY	-0.0293	-0.0146	-0.0195	3.9459e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0126	2.9742e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0153	2.4184e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0165	3.1023e-03	0.0000e+00
128	IHT0000001	219.5387	221.8825	220.6989	5.6000e-01	4.6563e+00
129	IHT0000002	225.9315	228.4705	227.1933	5.9609e-01	4.6874e+00
130	IHT0000003	228.0123	230.1608	229.0280	5.5524e-01	4.6963e+00
131	IHT0000004	223.9596	225.7174	224.8268	5.2963e-01	4.6760e+00
132	IHT0000005	221.4543	223.4074	222.5050	4.5829e-01	4.6649e+00
133	IHT0000006	215.7940	217.7471	216.6338	4.6059e-01	4.6371e+00
134	IHT0000007	225.1352	227.0884	226.0921	4.2909e-01	4.6821e+00
135	IHT0000008	222.5436	224.4967	223.5514	5.0434e-01	4.6699e+00
136	IHT0000009	222.5323	224.8760	223.7549	5.3932e-01	4.6708e+00
137	IHT0000010	54.4283	56.3815	55.2799	5.5910e-01	4.1371e+00
138	IHT0000011	222.8853	225.0338	224.0885	5.6821e-01	4.6724e+00
139	IHT0000012	218.7425	221.0862	220.0862	5.8745e-01	4.6534e+00
140	IHT0000013	158.3984	160.5469	159.5977	5.1146e-01	4.3997e+00
141	IHT0000014	219.1632	221.5069	220.5498	5.4426e-01	4.6556e+00
142	IHT0000015	163.3714	165.9104	164.6996	4.9284e-01	4.4184e+00
143	IHT0000016	151.9982	154.5372	153.3614	4.9362e-01	4.3774e+00
144	IHT0000017	182.0237	185.3441	183.8324	6.9229e-01	4.4933e+00
145	IHT0000018	184.1121	187.2371	185.7528	6.9922e-01	4.5012e+00
146	IHT0000019	178.4781	181.6031	179.9937	6.3080e-01	4.4777e+00
147	IHT0000020	183.5412	186.2755	185.1075	5.8858e-01	4.4985e+00
148	IHT0000021	-3.2039	-0.0789	-1.5554	7.0051e-01	4.1000e+00
149	IHT0000022	158.0942	160.8286	159.4458	5.5361e-01	4.3991e+00
150	IHT0000023	179.5598	182.0989	181.1105	5.7644e-01	4.4822e+00
151	IHT0000024	143.9866	146.5257	145.5570	5.6076e-01	4.3507e+00
152	IHT0000025	179.1579	181.5017	180.4626	5.8453e-01	4.4796e+00
153	IHT0000026	181.4979	183.4510	182.6815	5.1207e-01	4.4886e+00
154	IHT0000027	154.8377	157.1815	155.9823	5.6498e-01	4.3867e+00
155	IHT0000028	157.3505	159.8896	158.3896	6.5011e-01	4.3953e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.5965	183.3308	181.7411	6.3749e-01	4.4847e+00
157	IHT000030	183.9656	186.7000	185.1649	6.5674e-01	4.4987e+00
158	IHT000031	181.0322	183.7665	182.3056	6.7686e-01	4.4870e+00
159	IHT000032	183.3045	186.2342	184.7148	6.6998e-01	4.4969e+00
160	IHT000033	183.3271	186.0615	184.6162	6.5078e-01	4.4965e+00
161	IHT000034	161.1253	163.4690	162.1879	4.6715e-01	4.4091e+00
162	IHT000035	212.7855	214.9339	213.7503	4.8714e-01	4.6237e+00
163	IHT000036	159.2060	161.7450	160.2881	4.8682e-01	4.4022e+00

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Velocity 1 = 0.025700 (ft/sec)

Velocity 2 = 0.023400 (ft/sec)

Pressure Drop = 0.000700 (psi)

Tsat in = 0.293304 (deg F) Tsat out = 0.367889 (deg F)

Phi inner = 0.761200 (kBtu/hr-ft2) Phi outer = 0.514496 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0381	0.0450
1	TRF000002	0.0000	0.0000
2	TFM000001	0.0523	0.0606
3	TIN000001	0.0231	0.0270
4	TRV000001	0.0855	0.0976
5	TSR000001	1.7782	1.1259
6	TAO020136	0.7302	0.4989
7	TAO050136	0.1985	0.0898
8	TAO070136	0.6111	0.2790
9	TAO080136	0.0718	0.0274
10	TAO090136	0.3733	0.1365
11	TAO100136	0.1830	0.0682
12	TAO105136	0.2896	0.1051
13	TAO110136	0.0023	0.0023
14	TAO115136	0.4541	0.1620
15	TAO120136	0.2449	0.0802
16	TAO125136	0.1489	0.0539
17	TAO130136	0.3033	0.1035
18	TAO120048	0.9537	0.7859
19	TAO130048	0.1383	0.0437
20	TAO120224	0.5315	0.1760
21	TAO130224	0.2561	0.0902
22	TAO120312	0.0054	0.0018
23	TAO130312	0.0161	0.0052
24	TRT020000	0.1284	0.0596
25	TRT070000	0.1732	0.0646
26	TRT100000	0.2585	0.0847
27	TRT120000	0.0154	0.0034
28	TRT125000	0.4142	0.4062
29	TRT130000	0.7853	0.2480
30	EMPTY	0.0413	0.1038
31	TAF050136	0.2180	0.1499
32	TAF070136	0.3354	0.1974
33	TAF080136	0.0420	0.0156
34	TAF090136	0.5380	0.5371
35	TAF100136	0.3450	0.1677
36	TAF105136	0.2567	0.1214
37	TAF110136	0.2034	0.0928
38	TAF115136	0.1077	0.0476
39	TAF120136	0.3533	0.1273
40	TAF125136	0.0054	0.0023
41	TAF130136	0.2412	0.0989
42	TAF120048	0.3369	0.1353
43	TAF130048	0.4111	0.1515
44	TAF120224	0.1383	0.0608
45	TAF130224	0.3506	0.1481

#	Name	Abs Diff	%Diff
46	EMPTY	0.0552	0.1447
47	EMPTY	0.0642	0.1601
48	TAI130048	0.1946	0.0652
49	TAI130136	0.8754	0.2930
50	TAI130224	0.1944	0.0637
51	TAI130312	0.6928	0.2376
52	TRR130000	1.3220	0.8444
53	TSI000001	0.0063	0.0105
54	TSI000002	0.3198	0.3546
55	TSO000001	0.0238	0.0420
56	TSO000002	0.0403	0.0519
57	TAF020136	0.2935	0.2747
58	TAF120312	0.0959	0.0397
59	TAF130312	0.0165	0.0062
60	EMPTY	0.0008	0.0172
61	EMPTY	0.0014	0.0302
62	EMPTY	0.0027	0.0586
63	EMPTY	0.0039	0.0849
64	EMPTY	0.0016	0.0731
65	EMPTY	0.0026	0.1182
66	EMPTY	0.0012	0.0544
67	EMPTY	0.0016	0.0722
68	EMPTY	0.0027	0.1217
69	EMPTY	0.0037	0.1662
70	EMPTY	0.0041	0.1837
71	EMPTY	0.0031	0.1380
72	EMPTY	0.0030	0.1333
73	EMPTY	0.0032	0.1415
74	EMPTY	0.0042	0.1853
75	EMPTY	0.0037	0.1626
76	EMPTY	0.0039	0.1710
77	EMPTY	0.0048	0.2096
78	EMPTY	0.0035	0.1519
79	EMPTY	0.0036	0.1552
80	PAN020136	1.3626	16.0866
81	PAN050136	2.0813	10.4990
82	PAN070136	2.1545	15.4272
83	PAN080136	3.7628	56.0574
84	PAN090136	0.3754	5.4112
85	PAN100136	2.8733	35.5580
86	PAN105136	0.2548	43.5332
87	PAN110136	0.9567	105.5378
88	PAN115136	1.5167	181.6190
89	PAN120136	0.8728	478.7713
90	PAN125136	0.2273	75.1157
91	PAN130136	0.1496	195.5556
92	PAN120048	0.1358	3.8204
93	PAN130048	0.0733	17.7611
94	PAN120224	0.7263	653.7354
95	PAN130224	1.1688	46.3442
96	PAN120312	0.0595	6.8906
97	PAN130312	0.2747	16.3201
98	PAB000136	0.2664	0.4402
99	PAB100136	0.3250	0.5228
100	PAB125136	0.3406	0.5461

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.3052	0.5051
102	PRV000001	0.0195	0.0984
103	PSR000001	0.3223	0.5208
104	PFM000001	0.0714	0.5744
105	PAN000136	0.0183	0.0358
106	PFM000002	0.0651	0.5222
107	EMPTY	0.0002	4.3478
108	EMPTY	0.2652	3.5171
109	EMPTY	0.0002	5.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0508	0.0286
113	VPW000002	0.0117	0.0056
114	VPW000003	0.0351	0.0136
115	VPW000004	0.0469	0.0257
116	VPW000005	0.0586	0.0241
117	VPW000006	0.0430	0.0166
118	IPW000001	9.0587	0.9689
119	IPW000002	4.7993	0.2150
120	IPW000003	4.9141	0.2175
121	IPW000004	3.6035	0.5559
122	IPW000005	0.7226	0.1666
123	IPW000006	2.3242	0.5167
124	EMPTY	0.0007	3.7234
125	EMPTY	0.0000	0.0000
126	EMPTY	0.0004	2.6846
127	EMPTY	0.0008	5.0955
128	IHT000001	0.0742	0.0336
129	IHT000002	0.0898	0.0395
130	IHT000003	0.0859	0.0375
131	IHT000004	0.0703	0.0313
132	IHT000005	0.1484	0.0666
133	IHT000006	0.1211	0.0559
134	IHT000007	0.1329	0.0587
135	IHT000008	0.0625	0.0279
136	IHT000009	0.0508	0.0227
137	IHT000010	0.0000	0.0000
138	IHT000011	0.0390	0.0174
139	IHT000012	0.0117	0.0053
140	IHT000013	0.0234	0.0147
141	IHT000014	0.0390	0.0177
142	IHT000015	0.0351	0.0213
143	IHT000016	0.0196	0.0128
144	IHT000017	0.1914	0.1040
145	IHT000018	0.0078	0.0042
146	IHT000019	0.0039	0.0022
147	IHT000020	0.0039	0.0021
148	IHT000021	0.0000	0.0000
149	IHT000022	0.0195	0.0122
150	IHT000023	0.0390	0.0215
151	IHT000024	0.0117	0.0080
152	IHT000025	0.0157	0.0087
153	IHT000026	0.0429	0.0235
154	IHT000027	0.0313	0.0201
155	IHT000028	0.0898	0.0567

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#	Name	Abs Diff	%Diff
156	IHT0000029	0.0234	0.0129
157	IHT0000030	0.0234	0.0126
158	IHT0000031	0.0078	0.0043
159	IHT0000032	0.0078	0.0042
160	IHT0000033	0.0508	0.0275
161	IHT0000034	0.1445	0.0890
162	IHT0000035	0.0625	0.0292
163	IHT0000036	0.0976	0.0609

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sum1

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Velocity 1 = 8.7059 (ft/sec) (+/- 2.7386 %)
Velocity 2 = 8.7215 (ft/sec) (+/- 1.8439 %)
Pressure drop = -1.6591 (psi)
Tsats in = 293.1685 (deg F) Tsats out = 294.8301 (deg F)
Phi inner = 300.1771 (kBtu/hr-ft2) (+/- 1.2352 %)
Phi outer = 299.8393 (kBtu/hr-ft2) (+/- 1.2638 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.2466	84.8816	84.5387	1.7572e-01	1.9001e+00
1	TRF000002	84.5785	84.9996	84.8859	1.1420e-01	1.9001e+00
2	TFM000001	85.9766	86.9225	86.4512	1.8758e-01	1.9002e+00
3	TIN000001	85.6288	86.2618	85.9031	1.3638e-01	1.9002e+00
4	TRV000001	87.3413	88.7004	87.7893	2.4030e-01	1.9002e+00
5	TSR000001	154.6656	158.5295	156.2789	9.4003e-01	1.9050e+00
6	TAO020136	144.5755	149.0974	146.7434	9.6120e-01	1.9040e+00
7	TAO050136	220.5670	223.3094	221.4863	6.2013e-01	1.9154e+00
8	TAO070136	216.6981	221.1037	218.5992	1.0666e+00	1.9148e+00
9	TAO080136	260.7004	262.2694	261.2657	3.4612e-01	1.9245e+00
10	TAO090136	272.0890	274.2041	273.0307	4.5594e-01	1.9276e+00
11	TAO100136	266.1878	268.5903	267.3307	4.4738e-01	1.9261e+00
12	TAO105136	273.0013	275.0321	274.2979	3.5484e-01	1.9279e+00
13	TAO110136	99.8925	100.6173	100.2601	1.8265e-01	1.9006e+00
14	TAO115136	277.9929	279.9241	279.0782	4.2931e-01	1.9292e+00
15	TAO120136	303.1869	304.3671	303.8911	2.4975e-01	1.9365e+00
16	TAO125136	275.7230	277.4678	276.5175	3.6982e-01	1.9285e+00
17	TAO130136	291.4452	292.7992	292.2957	2.8840e-01	1.9330e+00
18	TAO120048	123.2584	124.9916	124.0991	3.1413e-01	1.9020e+00
19	TAO130048	317.9236	320.0726	318.7143	4.8677e-01	1.9412e+00
20	TAO120224	299.9172	301.9142	301.0869	3.5207e-01	1.9356e+00
21	TAO130224	281.4305	283.2493	282.2817	4.1938e-01	1.9301e+00
22	TAO120312	304.7563	307.9280	306.0433	6.2400e-01	1.9372e+00
23	TAO130312	313.3405	314.6023	313.8130	2.4921e-01	1.9396e+00
24	TRT020000	223.1359	225.1364	224.0050	4.9688e-01	1.9159e+00
25	TRT070000	282.9987	284.4745	283.8176	3.7586e-01	1.9306e+00
26	TRT100000	316.1616	317.2403	316.7188	2.7063e-01	1.9406e+00
27	TRT120000	459.4574	459.7997	459.6150	9.3625e-02	1.9997e+00
28	TRT125000	104.1368	105.1678	104.7016	2.0458e-01	1.9008e+00
29	TRT130000	318.1534	320.0371	319.2008	4.3911e-01	1.9414e+00
30	EMPTY	39.3761	40.2940	39.8398	2.2945e-01	1.9011e+00
31	TAF050136	144.3884	147.3873	145.9803	7.6149e-01	1.9039e+00
32	TAF070136	168.5640	172.3842	170.2228	8.4472e-01	1.9068e+00
33	TAF080136	267.0665	272.1087	269.5949	1.2378e+00	1.9267e+00
34	TAF090136	100.4785	101.5181	101.1103	2.4807e-01	1.9007e+00
35	TAF100136	204.3501	206.3731	205.3752	4.2996e-01	1.9123e+00
36	TAF105136	210.1414	212.1400	211.3067	4.2404e-01	1.9134e+00
37	TAF110136	218.3170	219.9322	218.9677	3.6908e-01	1.9149e+00
38	TAF115136	225.4398	227.1441	226.2436	4.2532e-01	1.9164e+00
39	TAF120136	273.4645	277.4946	275.2173	8.8989e-01	1.9282e+00
40	TAF125136	238.3885	241.0008	239.4375	4.9228e-01	1.9192e+00
41	TAF130136	244.0904	245.8674	244.8832	3.5175e-01	1.9205e+00
42	TAF120048	281.0584	291.9268	284.5898	2.3123e+00	1.9308e+00
43	TAF130048	293.8073	294.6281	294.1974	1.8331e-01	1.9336e+00
44	TAF120224	227.5081	229.9695	228.4856	4.9223e-01	1.9168e+00
45	TAF130224	236.4221	237.7487	236.9719	2.7864e-01	1.9187e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1399	2.0188e-01	1.9010e+00
47	EMPTY	39.6057	40.5234	40.1151	1.6898e-01	1.9011e+00
48	TAI130048	300.2319	301.5034	300.8095	2.8637e-01	1.9356e+00
49	TAI130136	299.4430	301.5280	300.3429	3.7598e-01	1.9354e+00
50	TAI130224	307.2575	309.1617	308.0340	3.4140e-01	1.9378e+00
51	TAI130312	290.0705	291.7167	290.7216	4.2946e-01	1.9325e+00
52	TRR130000	157.6312	160.6018	158.8399	6.8420e-01	1.9053e+00
53	TSI000001	59.6325	60.4924	60.0024	1.9418e-01	1.9001e+00
54	TSI000002	91.1673	92.9431	92.1327	3.4337e-01	1.9003e+00
55	TSO000001	56.2328	57.2068	56.7178	1.9466e-01	1.9001e+00
56	TSO000002	78.1019	78.9490	78.5932	1.8744e-01	1.9000e+00
57	TAF020136	105.4434	108.8769	107.1549	9.1663e-01	1.9009e+00
58	TAF120312	256.8422	261.4938	259.1916	1.0238e+00	1.9240e+00
59	TAF130312	276.1693	279.2917	277.2382	5.4569e-01	1.9287e+00
60	EMPTY	4.9561	4.9756	4.9665	4.4128e-03	0.0000e+00
61	EMPTY	4.9316	4.9414	4.9380	2.4662e-03	0.0000e+00
62	EMPTY	4.9072	4.9170	4.9119	2.6025e-03	0.0000e+00
63	EMPTY	4.8926	4.9023	4.8974	2.3114e-03	0.0000e+00
64	EMPTY	2.3193	2.3242	2.3220	2.4583e-03	0.0000e+00
65	EMPTY	2.3291	2.3340	2.3331	1.8950e-03	0.0000e+00
66	EMPTY	2.3389	2.3389	2.3389	0.0000e+00	0.0000e+00
67	EMPTY	2.3438	2.3633	2.3477	3.2718e-03	0.0000e+00
68	EMPTY	2.3486	2.3535	2.3491	1.4797e-03	0.0000e+00
69	EMPTY	2.3486	2.3584	2.3581	1.5314e-03	0.0000e+00
70	EMPTY	2.3584	2.3633	2.3631	9.6655e-04	0.0000e+00
71	EMPTY	2.3730	2.3779	2.3748	2.3675e-03	0.0000e+00
72	EMPTY	2.3779	2.3828	2.3781	9.6655e-04	0.0000e+00
73	EMPTY	2.3828	2.3926	2.3878	1.2041e-03	0.0000e+00
74	EMPTY	2.3926	2.4023	2.3932	1.8821e-03	0.0000e+00
75	EMPTY	2.3975	2.4023	2.4019	1.4797e-03	0.0000e+00
76	EMPTY	2.4023	2.4072	2.4058	2.2603e-03	0.0000e+00
77	EMPTY	2.4121	2.4170	2.4157	2.1635e-03	0.0000e+00
78	EMPTY	2.4268	2.4268	2.4268	0.0000e+00	0.0000e+00
79	EMPTY	2.4365	2.4463	2.4413	1.2041e-03	0.0000e+00
80	PAN020136	-19.6749	2.5266	-10.1138	5.4644e+00	8.7037e-01
81	PAN050136	-29.1012	-5.2975	-17.6388	6.8665e+00	1.6806e+00
82	PAN070136	-24.5781	-3.1395	-14.0907	5.4288e+00	8.7071e-01
83	PAN080136	-13.8032	8.6272	-4.2024	4.6287e+00	8.7006e-01
84	PAN090136	-13.1753	5.7456	-5.4116	5.2850e+00	8.7011e-01
85	PAN100136	-2.2725	23.5911	5.2760	6.4353e+00	8.7010e-01
86	PAN105136	-5.6421	1.4533	-1.2933	1.6485e+00	8.7001e-01
87	PAN110136	-4.3230	5.4426	0.5003	2.2348e+00	8.7000e-01
88	PAN115136	-5.1182	4.4185	-0.7893	2.1507e+00	8.7000e-01
89	PAN120136	-3.2387	7.0610	1.1787	2.2436e+00	8.7001e-01
90	PAN125136	-1.1495	3.5807	0.3291	1.0054e+00	8.7000e-01
91	PAN130136	-1.2682	0.3339	-0.7357	3.3611e-01	8.7000e-01
92	PAN120048	-4.8577	-2.6452	-3.7240	5.1145e-01	8.7005e-01
93	PAN130048	21.7674	27.5658	24.4530	1.3433e+00	8.7215e-01
94	PAN120224	-2.3709	6.9370	1.0395	2.1651e+00	8.7000e-01
95	PAN130224	-1.8323	1.1432	-0.3415	6.2234e-01	8.7000e-01
96	PAN120312	10.3072	13.1301	11.6927	6.2504e-01	8.7049e-01
97	PAN130312	1.6844	4.1258	2.7876	5.4238e-01	8.7003e-01
98	PAB000136	60.0035	61.0563	60.5079	2.7875e-01	5.9940e-01
99	PAB100136	61.7456	62.1576	61.9095	8.7780e-02	6.0030e-01
100	PAB125136	61.9234	62.1981	62.0315	6.4579e-02	6.0037e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.1237	61.0769	60.2810	5.2155e-01	7.6499e-01
102	PRV000001	19.7186	19.8406	19.8382	1.7263e-02	7.5164e-01
103	PSR000001	61.0509	61.2950	61.2169	6.4121e-02	7.6546e-01
104	PFM000001	11.1624	11.8032	11.5249	1.2539e-01	5.0083e-01
105	PAN000136	-58.5494	-28.7947	-45.9334	7.6365e+00	4.9213e+00
106	PFM000002	11.3932	11.7959	11.5667	8.3975e-02	2.0208e-01
107	EMPTY	-0.0049	0.0049	0.0046	1.5314e-03	0.0000e+00
108	EMPTY	-10.0000	-6.2451	-9.6560	8.2967e-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	VPW000001	177.6104	178.1964	177.8409	1.4600e-01	1.3397e+00
113	VPW000002	207.7186	208.1092	207.8593	1.1189e-01	1.4871e+00
114	VPW000003	256.8021	257.5834	257.2786	1.2577e-01	1.7433e+00
115	VPW000004	182.5984	183.1843	182.9032	1.1942e-01	1.3640e+00
116	VPW000005	243.5584	244.1444	243.8828	1.2853e-01	1.6725e+00
117	VPW000006	258.4172	259.1985	258.9093	1.4358e-01	1.7519e+00
118	IPW000001	928.1141	937.8759	934.5960	2.4771e+00	1.0960e+01
119	IPW000002	2209.6626	2236.9805	2225.5459	9.7045e+00	1.9358e+01
120	IPW000003	2252.2498	2261.9998	2258.0220	2.5519e+00	1.9591e+01
121	IPW000004	648.7473	651.1887	649.8315	5.4292e-01	5.5095e+00
122	IPW000005	431.7664	433.7194	432.5865	6.0355e-01	3.9597e+00
123	IPW000006	447.7915	449.2563	448.4943	3.7121e-01	4.0686e+00
124	EMPTY	-0.0293	-0.0146	-0.0196	3.4863e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0127	2.9594e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0150	3.8002e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	3.4300e-03	0.0000e+00
128	IHT000001	218.3669	221.6872	220.2458	7.3598e-01	4.6541e+00
129	IHT000002	225.1502	228.2752	226.7402	6.6616e-01	4.6852e+00
130	IHT000003	227.0358	230.1608	228.6530	6.6385e-01	4.6945e+00
131	IHT000004	223.1783	226.3033	224.5690	6.5749e-01	4.6747e+00
132	IHT000005	221.0637	224.1887	222.3058	6.2110e-01	4.6639e+00
133	IHT000006	215.4034	218.5284	216.5205	5.9718e-01	4.6366e+00
134	IHT000007	224.7446	227.8696	225.9984	6.1268e-01	4.6816e+00
135	IHT000008	222.1529	225.4733	223.3835	5.4426e-01	4.6690e+00
136	IHT000009	222.1417	225.6573	223.4893	5.9875e-01	4.6696e+00
137	IHT000010	54.0377	55.9908	55.0924	4.2682e-01	4.1368e+00
138	IHT000011	222.6900	225.2291	223.8893	5.1902e-01	4.6715e+00
139	IHT000012	218.9378	221.2816	219.8753	5.1297e-01	4.6524e+00
140	IHT000013	158.5938	160.9375	159.5586	5.4592e-01	4.3995e+00
141	IHT000014	219.5538	221.7022	220.4990	5.2104e-01	4.6553e+00
142	IHT000015	163.7620	166.4964	164.7269	5.5300e-01	4.4185e+00
143	IHT000016	152.5841	155.3185	153.4552	5.8555e-01	4.3778e+00
144	IHT000017	182.6097	185.3441	183.8988	6.6498e-01	4.4935e+00
145	IHT000018	184.6980	187.0418	185.6864	6.8164e-01	4.5009e+00
146	IHT000019	178.8687	181.0171	179.9859	5.1151e-01	4.4777e+00
147	IHT000020	183.9318	186.2755	185.0958	4.7344e-01	4.4984e+00
148	IHT000021	-2.8132	-0.2742	-1.4617	5.9036e-01	4.1000e+00
149	IHT000022	158.2895	160.8286	159.6372	5.8294e-01	4.3998e+00
150	IHT000023	180.1458	182.4895	181.2003	5.4104e-01	4.4826e+00
151	IHT000024	144.5726	146.5257	145.5883	4.7679e-01	4.3508e+00
152	IHT000025	179.5486	181.6970	180.5563	5.4299e-01	4.4800e+00
153	IHT000026	181.6932	183.8417	182.7089	5.0532e-01	4.4887e+00
154	IHT000027	155.0331	157.5721	156.0565	5.9524e-01	4.3870e+00
155	IHT000028	157.3505	159.8896	158.4052	5.9712e-01	4.3954e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.4012	183.1355	181.6044	5.6821e-01	4.4842e+00
157	IHT000030	183.7703	186.7000	185.0009	5.9875e-01	4.4981e+00
158	IHT000031	180.8368	183.7665	182.1376	5.9922e-01	4.4864e+00
159	IHT000032	183.3045	186.4295	184.5546	6.4113e-01	4.4962e+00
160	IHT000033	183.3271	186.2568	184.5303	6.1556e-01	4.4961e+00
161	IHT000034	161.1253	163.4690	162.2230	5.1583e-01	4.4093e+00
162	IHT000035	212.5902	215.1292	213.7386	5.5614e-01	4.6237e+00
163	IHT000036	159.2060	161.1591	160.2607	4.7186e-01	4.4021e+00

Velocity 1 = 8.7361 (ft/sec) (+/- 2.7267 %)
Velocity 2 = 8.7526 (ft/sec) (+/- 1.8416 %)
Pressure drop = -1.6469 (psi)
Tsat in = 293.0578 (deg F) Tsat out = 294.7131 (deg F)
Phi inner = 299.0306 (kBtu/hr-ft2) (+/- 1.2357 %)
Phi outer = 299.3531 (kBtu/hr-ft2) (+/- 1.2637 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.2466	84.8816	84.6488	2.0168e-01	1.9001e+00
1	TRF000002	84.5785	85.2100	84.9069	1.3556e-01	1.9001e+00
2	TFM000001	86.1865	87.0271	86.6258	2.2336e-01	1.9002e+00
3	TIN000001	85.5238	86.2618	85.9981	1.5544e-01	1.9002e+00
4	TRV000001	87.6539	88.4930	88.0136	2.0425e-01	1.9002e+00
5	TSR000001	160.1098	163.8638	162.2151	1.0731e+00	1.9057e+00
6	TAO020136	145.8838	149.2986	147.7423	6.9145e-01	1.9041e+00
7	TAO050136	220.3759	223.2156	221.5607	7.5883e-01	1.9154e+00
8	TAO070136	217.3689	220.9121	218.6548	9.1192e-01	1.9148e+00
9	TAO080136	260.3331	261.5335	260.9214	3.2747e-01	1.9244e+00
10	TAO090136	271.8111	273.6524	272.7165	4.0271e-01	1.9275e+00
11	TAO100136	265.9112	268.4987	267.2664	5.7801e-01	1.9260e+00
12	TAO105136	273.2794	275.2173	274.2335	4.5853e-01	1.9279e+00
13	TAO110136	98.2435	98.9693	98.6104	1.4285e-01	1.9006e+00
14	TAO115136	277.4409	279.5570	278.7272	3.9844e-01	1.9291e+00
15	TAO120136	303.0957	304.1857	303.6428	3.0106e-01	1.9364e+00
16	TAO125136	275.3556	277.1938	276.1965	4.2042e-01	1.9284e+00
17	TAO130136	291.6255	293.2498	292.2303	3.1946e-01	1.9330e+00
18	TAO120048	122.8498	124.0757	123.5182	3.1550e-01	1.9019e+00
19	TAO130048	317.7425	319.5369	318.7130	4.0210e-01	1.9412e+00
20	TAO120224	299.9183	301.7339	300.7443	3.7653e-01	1.9355e+00
21	TAO130224	281.1588	282.7070	282.1609	3.3287e-01	1.9301e+00
22	TAO120312	304.9380	307.5662	306.0200	5.6718e-01	1.9372e+00
23	TAO130312	312.5314	314.0627	313.4159	2.9399e-01	1.9395e+00
24	TRT020000	222.7551	225.0409	223.9270	5.1757e-01	1.9159e+00
25	TRT070000	283.1821	284.9362	284.0962	3.7440e-01	1.9306e+00
26	TRT100000	316.4307	317.8683	317.2346	3.3435e-01	1.9407e+00
27	TRT120000	459.4574	459.8849	459.6680	1.0955e-01	1.9997e+00
28	TRT125000	101.3535	102.3886	101.9848	2.0625e-01	1.9007e+00
29	TRT130000	318.4224	320.6655	319.6192	4.9405e-01	1.9415e+00
30	EMPTY	39.3761	40.2940	39.8398	2.0988e-01	1.9011e+00
31	TAF050136	144.7899	147.9865	146.1706	6.8288e-01	1.9039e+00
32	TAF070136	168.7625	172.0935	170.2412	7.5321e-01	1.9068e+00
33	TAF080136	264.4033	271.9256	269.0546	1.2234e+00	1.9265e+00
34	TAF090136	98.4010	99.4424	98.9283	2.7033e-01	1.9006e+00
35	TAF100136	204.4461	206.7579	205.5776	4.7826e-01	1.9123e+00
36	TAF105136	210.5216	212.3298	211.3664	4.0457e-01	1.9134e+00
37	TAF110136	218.0328	219.7441	218.9891	3.7503e-01	1.9149e+00
38	TAF115136	225.5353	227.3348	226.5979	4.1733e-01	1.9164e+00
39	TAF120136	273.4660	276.7640	275.3846	7.8194e-01	1.9282e+00
40	TAF125136	238.8570	240.2529	239.5596	3.6879e-01	1.9193e+00
41	TAF130136	244.0893	246.1470	245.0164	4.6411e-01	1.9205e+00
42	TAF120048	281.6120	289.2612	285.3405	1.8486e+00	1.9310e+00
43	TAF130048	293.7156	294.4460	294.1412	2.0060e-01	1.9335e+00
44	TAF120224	227.4141	229.5909	228.4841	5.1410e-01	1.9168e+00
45	TAF130224	236.3278	237.6541	236.9586	3.2283e-01	1.9187e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	2.2353e-01	1.9010e+00
47	EMPTY	40.0646	40.2940	40.1060	8.9031e-02	1.9011e+00
48	TAI130048	299.9594	301.4121	300.8334	2.6211e-01	1.9356e+00
49	TAI130136	299.5359	301.3481	300.3851	3.6898e-01	1.9354e+00
50	TAI130224	307.3479	309.0719	308.3516	3.5603e-01	1.9379e+00
51	TAI130312	289.8873	291.7167	290.8627	3.7617e-01	1.9326e+00
52	TRR130000	158.2269	160.0090	159.2225	4.3898e-01	1.9054e+00
53	TSI000001	59.6325	60.4924	60.1721	1.9345e-01	1.9001e+00
54	TSI000002	90.6455	92.2127	91.5420	3.9681e-01	1.9003e+00
55	TSO000001	56.4494	57.2068	56.8282	2.1111e-01	1.9001e+00
56	TSO000002	78.2072	79.2663	78.7268	2.4886e-01	1.9001e+00
57	TAF020136	105.6513	109.9149	107.3150	8.7395e-01	1.9009e+00
58	TAF120312	257.4941	261.3080	259.2012	8.3505e-01	1.9240e+00
59	TAF130312	275.7091	278.4658	277.2514	5.8655e-01	1.9287e+00
60	EMPTY	4.9561	4.9707	4.9641	5.0068e-03	0.0000e+00
61	EMPTY	4.9268	4.9414	4.9361	3.2479e-03	0.0000e+00
62	EMPTY	4.9023	4.9170	4.9090	2.7480e-03	0.0000e+00
63	EMPTY	4.8828	4.9023	4.8934	3.1752e-03	0.0000e+00
64	EMPTY	2.3145	2.3242	2.3196	1.5314e-03	0.0000e+00
65	EMPTY	2.3242	2.3340	2.3307	2.5034e-03	0.0000e+00
66	EMPTY	2.3340	2.3389	2.3369	2.4164e-03	0.0000e+00
67	EMPTY	2.3438	2.3486	2.3442	1.4797e-03	0.0000e+00
68	EMPTY	2.3438	2.3486	2.3482	1.3381e-03	0.0000e+00
69	EMPTY	2.3486	2.3584	2.3553	2.5648e-03	0.0000e+00
70	EMPTY	2.3584	2.3682	2.3602	2.5648e-03	0.0000e+00
71	EMPTY	2.3682	2.3779	2.3730	9.8648e-04	0.0000e+00
72	EMPTY	2.3730	2.3779	2.3766	2.2146e-03	0.0000e+00
73	EMPTY	2.3828	2.3926	2.3854	2.6488e-03	0.0000e+00
74	EMPTY	2.3877	2.3975	2.3912	2.4244e-03	0.0000e+00
75	EMPTY	2.3926	2.4023	2.3976	1.5566e-03	0.0000e+00
76	EMPTY	2.4023	2.4072	2.4024	6.9053e-04	0.0000e+00
77	EMPTY	2.4072	2.4219	2.4122	1.5566e-03	0.0000e+00
78	EMPTY	2.4219	2.4268	2.4237	2.3941e-03	0.0000e+00
79	EMPTY	2.4365	2.4463	2.4375	2.2058e-03	0.0000e+00
80	PAN020136	-19.6749	1.6874	-8.7908	5.2752e+00	8.7028e-01
81	PAN050136	-30.0167	-4.0768	-18.5726	6.7784e+00	1.6806e+00
82	PAN070136	-24.3492	1.1330	-12.9738	6.5263e+00	8.7060e-01
83	PAN080136	-13.8795	3.6681	-4.3717	5.2104e+00	8.7007e-01
84	PAN090136	-13.1753	4.8301	-5.3185	4.0408e+00	8.7010e-01
85	PAN100136	-12.1908	22.1415	4.9235	6.5007e+00	8.7009e-01
86	PAN105136	-5.7946	10.3797	0.0952	2.8438e+00	8.7000e-01
87	PAN110136	-5.5437	4.6797	0.1753	2.3033e+00	8.7000e-01
88	PAN115136	-7.1019	3.5030	-1.0197	2.2840e+00	8.7000e-01
89	PAN120136	-4.0780	5.6114	0.8674	1.9720e+00	8.7000e-01
90	PAN125136	-0.8443	4.0385	0.8219	1.1896e+00	8.7000e-01
91	PAN130136	-1.1157	0.3339	-0.5984	3.6387e-01	8.7000e-01
92	PAN120048	-4.0948	-2.4163	-3.1548	5.0359e-01	8.7004e-01
93	PAN130048	21.5386	27.9473	24.3584	1.4689e+00	8.7213e-01
94	PAN120224	-2.8286	5.8689	0.6000	2.0569e+00	8.7000e-01
95	PAN130224	-1.7560	1.3720	-0.4743	6.5158e-01	8.7000e-01
96	PAN120312	10.3835	14.0456	12.1291	8.7921e-01	8.7053e-01
97	PAN130312	1.6844	3.8207	2.7632	4.3760e-01	8.7003e-01
98	PAB000136	59.9119	60.9648	60.4072	2.7970e-01	5.9934e-01
99	PAB100136	61.6083	62.3865	61.8225	1.3917e-01	6.0024e-01
100	PAB125136	61.7861	62.1065	61.9234	7.5133e-02	6.0030e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.1237	60.9548	60.0881	5.1333e-01	7.6490e-01
102	PRV000001	19.7186	19.8406	19.7967	5.9189e-02	7.5163e-01
103	PSR000001	60.9288	61.1730	61.0777	5.6722e-02	7.6539e-01
104	PFM000001	11.3455	11.8948	11.6055	1.2995e-01	5.0084e-01
105	PAN000136	-58.0916	-29.7103	-45.5946	7.3866e+00	4.9213e+00
106	PFM000002	11.5274	11.8462	11.6499	7.6951e-02	2.0211e-01
107	EMPTY	-0.0049	0.0098	0.0048	1.5566e-03	0.0000e+00
108	EMPTY	-8.9209	-5.9717	-6.7899	7.1054e-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	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	177.6104	178.1964	177.7979	1.4743e-01	1.3395e+00
113	VPW000002	207.7186	208.1092	207.9062	1.2453e-01	1.4873e+00
114	VPW000003	256.9974	257.5834	257.3841	1.2780e-01	1.7438e+00
115	VPW000004	182.7937	183.1843	182.9462	1.2658e-01	1.3642e+00
116	VPW000005	243.5584	244.1444	243.8281	1.2409e-01	1.6722e+00
117	VPW000006	258.8079	259.3938	259.0655	1.3917e-01	1.7528e+00
118	IPW000001	939.8282	953.4946	947.3644	3.6367e+00	1.1028e+01
119	IPW000002	2205.7600	2211.6140	2207.5166	1.4350e+00	1.9229e+01
120	IPW000003	2244.4500	2254.2000	2249.6755	1.7811e+00	1.9531e+01
121	IPW000004	651.1887	652.6536	652.0972	3.9471e-01	5.5262e+00
122	IPW000005	430.3017	431.7664	430.9949	3.8316e-01	3.9488e+00
123	IPW000006	443.3970	447.3032	445.3205	1.2298e+00	4.0468e+00
124	EMPTY	-0.0244	-0.0146	-0.0186	3.8206e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	3.2718e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0142	3.0003e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0179	3.6393e-03	0.0000e+00
128	IHT000001	218.9528	221.4919	220.4841	5.5714e-01	4.6552e+00
129	IHT000002	225.5408	228.2752	226.9902	5.6233e-01	4.6864e+00
130	IHT000003	227.6217	229.9655	228.8327	5.6359e-01	4.6954e+00
131	IHT000004	222.9830	226.3033	224.7253	6.3238e-01	4.6755e+00
132	IHT000005	221.0637	223.9934	222.5753	6.9229e-01	4.6652e+00
133	IHT000006	215.2081	218.1378	216.6807	7.0610e-01	4.6374e+00
134	IHT000007	224.7446	227.4790	226.1898	7.1136e-01	4.6825e+00
135	IHT000008	222.1529	224.8873	223.5241	7.2382e-01	4.6697e+00
136	IHT000009	222.3370	225.0714	223.6768	7.0145e-01	4.6705e+00
137	IHT000010	54.2330	56.7721	55.1080	6.0777e-01	4.1369e+00
138	IHT000011	223.0807	225.6197	224.0456	5.7237e-01	4.6722e+00
139	IHT000012	219.3284	221.6722	220.0550	5.4253e-01	4.6532e+00
140	IHT000013	158.7891	161.1328	159.6055	5.1250e-01	4.3997e+00
141	IHT000014	219.3585	221.3116	220.4053	4.8450e-01	4.6549e+00
142	IHT000015	163.3714	165.5198	164.6254	4.7201e-01	4.4182e+00
143	IHT000016	152.1935	154.1466	153.3028	4.9196e-01	4.3772e+00
144	IHT000017	182.8050	185.3441	183.9886	6.4405e-01	4.4939e+00
145	IHT000018	184.5027	187.0418	185.7059	6.4641e-01	4.5010e+00
146	IHT000019	178.8687	181.4077	179.9195	6.3857e-01	4.4774e+00
147	IHT000020	183.9318	186.6662	185.0802	6.1338e-01	4.4984e+00
148	IHT000021	-2.8132	0.1164	-1.5789	6.8962e-01	4.1000e+00
149	IHT000022	158.2895	160.8286	159.4809	5.6531e-01	4.3993e+00
150	IHT000023	179.9504	182.6848	181.1808	5.8826e-01	4.4825e+00
151	IHT000024	144.3773	146.9163	145.5805	5.4585e-01	4.3508e+00
152	IHT000025	179.3532	181.8923	180.5016	5.6996e-01	4.4797e+00
153	IHT000026	181.4979	183.8417	182.6776	6.0613e-01	4.4886e+00
154	IHT000027	155.0331	157.3768	156.0136	6.1699e-01	4.3868e+00
155	IHT000028	156.9599	159.6942	158.2998	7.3080e-01	4.3950e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.4012	182.9402	181.5966	6.8759e-01	4.4842e+00
157	IHT000030	183.7703	186.3094	184.9891	6.6680e-01	4.4980e+00
158	IHT000031	181.0322	183.3759	182.1025	6.3410e-01	4.4862e+00
159	IHT000032	183.3045	186.0389	184.5273	6.7290e-01	4.4961e+00
160	IHT000033	183.1318	185.6708	184.4404	6.9838e-01	4.4958e+00
161	IHT000034	160.9300	163.0784	162.0824	5.2977e-01	4.4087e+00
162	IHT000035	212.3949	214.5433	213.5706	5.5452e-01	4.6229e+00
163	IHT000036	158.8153	161.3544	160.1513	5.8041e-01	4.4017e+00

Velocity 1 = 0.030200 (ft/sec)
 Velocity 2 = 0.031099 (ft/sec)
 Pressure Drop = 0.012200 (psi)
 Tsat in = 0.110687 (deg F) Tsat out = 0.117004 (deg F)
 Phi inner = 1.146484 (kBtu/hr-ft2) Phi outer = 0.486206 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1101	0.1302
1	TRF000002	0.0210	0.0247
2	TFM000001	0.1746	0.2020
3	TIN000001	0.0950	0.1106
4	TRV000001	0.2243	0.2555
5	TSR000001	5.9362	3.7985
6	TAO020136	0.9989	0.6807
7	TAO050136	0.0744	0.0336
8	TAO070136	0.0556	0.0254
9	TAO080136	0.3443	0.1318
10	TAO090136	0.3142	0.1151
11	TAO100136	0.0643	0.0241
12	TAO105136	0.0644	0.0235
13	TAO110136	1.6497	1.6454
14	TAO115136	0.3510	0.1258
15	TAO120136	0.2483	0.0817
16	TAO125136	0.3210	0.1161
17	TAO130136	0.0654	0.0224
18	TAO120048	0.5809	0.4681
19	TAO130048	0.0013	0.0004
20	TAO120224	0.3426	0.1138
21	TAO130224	0.1208	0.0428
22	TAO120312	0.0233	0.0076
23	TAO130312	0.3971	0.1265
24	TRT020000	0.0780	0.0348
25	TRT070000	0.2786	0.0982
26	TRT100000	0.5158	0.1629
27	TRT120000	0.0530	0.0115
28	TRT125000	2.7168	2.5948
29	TRT130000	0.4184	0.1311
30	EMPTY	0.0000	0.0000
31	TAF050136	0.1903	0.1304
32	TAF070136	0.0184	0.0108
33	TAF080136	0.5403	0.2004
34	TAF090136	2.1820	2.1580
35	TAF100136	0.2024	0.0986
36	TAF105136	0.0597	0.0282
37	TAF110136	0.0214	0.0098
38	TAF115136	0.3543	0.1566
39	TAF120136	0.1673	0.0608
40	TAF125136	0.1221	0.0510
41	TAF130136	0.1332	0.0544
42	TAF120048	0.7507	0.2638
43	TAF130048	0.0562	0.0191
44	TAF120224	0.0015	0.0007
45	TAF130224	0.0133	0.0056

#	Name	Abs Diff	%Diff
46	EMPTY	0.0413	0.1083
47	EMPTY	0.0091	0.0227
48	TAI130048	0.0239	0.0079
49	TAI130136	0.0422	0.0141
50	TAI130224	0.3176	0.1031
51	TAI130312	0.1411	0.0485
52	TRR130000	0.3826	0.2409
53	TSI000001	0.1697	0.2828
54	TSI000002	0.5907	0.6411
55	TSO000001	0.1104	0.1946
56	TSO000002	0.1336	0.1700
57	TAF020136	0.1601	0.1494
58	TAF120312	0.0096	0.0037
59	TAF130312	0.0132	0.0048
60	EMPTY	0.0024	0.0483
61	EMPTY	0.0019	0.0385
62	EMPTY	0.0029	0.0590
63	EMPTY	0.0040	0.0817
64	EMPTY	0.0024	0.1034
65	EMPTY	0.0024	0.1029
66	EMPTY	0.0020	0.0855
67	EMPTY	0.0035	0.1491
68	EMPTY	0.0009	0.0383
69	EMPTY	0.0028	0.1187
70	EMPTY	0.0029	0.1227
71	EMPTY	0.0018	0.0758
72	EMPTY	0.0015	0.0631
73	EMPTY	0.0024	0.1005
74	EMPTY	0.0020	0.0836
75	EMPTY	0.0043	0.1790
76	EMPTY	0.0034	0.1413
77	EMPTY	0.0035	0.1449
78	EMPTY	0.0031	0.1277
79	EMPTY	0.0038	0.1557
80	PAN020136	1.3230	13.0811
81	PAN050136	0.9338	5.2940
82	PAN070136	1.1169	7.9265
83	PAN080136	0.1693	4.0286
84	PAN090136	0.0931	1.7204
85	PAN100136	0.3525	6.6812
86	PAN105136	1.3885	107.3610
87	PAN110136	0.3250	64.9610
88	PAN115136	0.2304	29.1904
89	PAN120136	0.3113	26.4105
90	PAN125136	0.4928	149.7417
91	PAN130136	0.1373	18.6625
92	PAN120048	0.5692	15.2846
93	PAN130048	0.0946	0.3869
94	PAN120224	0.4395	42.2799
95	PAN130224	0.1328	38.8873
96	PAN120312	0.4364	3.7322
97	PAN130312	0.0244	0.8753
98	PAB000136	0.1007	0.1664
99	PAB100136	0.0870	0.1405
100	PAB125136	0.1081	0.1743

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1929	0.3200
102	PRV000001	0.0415	0.2092
103	PSR000001	0.1392	0.2274
104	PFM000001	0.0806	0.6994
105	PAN000136	0.3388	0.7376
106	PFM000002	0.0832	0.7193
107	EMPTY	0.0002	4.3478
108	EMPTY	2.8661	29.6821
109	EMPTY	0.0008	21.6216
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0430	0.0242
113	VPW000002	0.0469	0.0226
114	VPW000003	0.1055	0.0410
115	VPW000004	0.0430	0.0235
116	VPW000005	0.0547	0.0224
117	VPW000006	0.1562	0.0603
118	IPW000001	12.7684	1.3662
119	IPW000002	18.0293	0.8101
120	IPW000003	8.3464	0.3696
121	IPW000004	2.2657	0.3487
122	IPW000005	1.5916	0.3679
123	IPW000006	3.1738	0.7077
124	EMPTY	0.0010	5.1020
125	EMPTY	0.0010	7.8740
126	EMPTY	0.0008	5.3333
127	EMPTY	0.0012	7.1856
128	IHT000001	0.2383	0.1082
129	IHT000002	0.2500	0.1103
130	IHT000003	0.1797	0.0786
131	IHT000004	0.1563	0.0696
132	IHT000005	0.2695	0.1212
133	IHT000006	0.1602	0.0740
134	IHT000007	0.1914	0.0847
135	IHT000008	0.1406	0.0629
136	IHT000009	0.1875	0.0839
137	IHT000010	0.0156	0.0283
138	IHT000011	0.1563	0.0698
139	IHT000012	0.1797	0.0817
140	IHT000013	0.0469	0.0294
141	IHT000014	0.0937	0.0425
142	IHT000015	0.1015	0.0616
143	IHT000016	0.1524	0.0993
144	IHT000017	0.0898	0.0488
145	IHT000018	0.0195	0.0105
146	IHT000019	0.0664	0.0369
147	IHT000020	0.0156	0.0084
148	IHT000021	0.1172	8.0181
149	IHT000022	0.1563	0.0979
150	IHT000023	0.0195	0.0108
151	IHT000024	0.0078	0.0054
152	IHT000025	0.0547	0.0303
153	IHT000026	0.0313	0.0171
154	IHT000027	0.0429	0.0275
155	IHT000028	0.1054	0.0665

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0078	0.0043
157	IHT000030	0.0118	0.0064
158	IHT000031	0.0351	0.0193
159	IHT000032	0.0273	0.0148
160	IHT000033	0.0899	0.0487
161	IHT000034	0.1406	0.0867
162	IHT000035	0.1680	0.0786
163	IHT000036	0.1094	0.0683

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Velocity 1 = 8.8378 (ft/sec) (+/- 2.6875 %)
Velocity 2 = 8.8488 (ft/sec) (+/- 1.8345 %)
Pressure drop = -1.9710 (psi)
Tsat in = 293.5202 (deg F) Tsat out = 295.4708 (deg F)
Phi inner = 300.4936 (kBtu/hr-ft2) (+/- 1.2351 %)
Phi outer = 300.4882 (kBtu/hr-ft2) (+/- 1.2634 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft²)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	84.2466	84.8816	84.5980	1.7943e-01	1.9001e+00
1	TRF0000002	84.7891	84.9996	84.8901	1.0623e-01	1.9001e+00
2	TFM0000001	86.3958	87.2363	86.6718	1.8961e-01	1.9002e+00
3	TIN0000001	85.8395	86.4724	86.1287	1.5032e-01	1.9002e+00
4	TRV0000001	87.5504	88.2825	87.9715	1.7638e-01	1.9002e+00
5	TSR0000001	157.2436	160.5085	158.9782	9.4809e-01	1.9053e+00
6	TAO020136	148.8968	152.1037	150.2545	6.7174e-01	1.9043e+00
7	TAO050136	221.0416	224.3474	222.3046	7.1998e-01	1.9156e+00
8	TAO070136	219.2854	222.9198	221.1550	8.1246e-01	1.9153e+00
9	TAO080136	264.7549	266.2275	265.4024	3.5162e-01	1.9256e+00
10	TAO090136	276.1345	277.7868	277.0027	4.1817e-01	1.9287e+00
11	TAO100136	271.3563	273.6590	272.4417	4.5364e-01	1.9274e+00
12	TAO105136	278.4418	280.0069	279.0770	3.8977e-01	1.9292e+00
13	TAO110136	95.6610	96.2865	95.8893	1.4356e-01	1.9005e+00
14	TAO115136	282.0354	283.8711	283.1610	3.9581e-01	1.9304e+00
15	TAO120136	308.7129	309.6184	309.1353	2.0902e-01	1.9381e+00
16	TAO125136	280.4932	282.2338	281.2462	3.6188e-01	1.9298e+00
17	TAO130136	297.2798	298.6291	297.6868	3.1052e-01	1.9346e+00
18	TAO120048	119.4780	120.6047	119.9924	3.0343e-01	1.9017e+00
19	TAO130048	316.9349	317.8335	317.4612	2.0124e-01	1.9408e+00
20	TAO120224	304.4519	305.9916	305.2870	2.8481e-01	1.9369e+00
21	TAO130224	286.2410	288.0555	287.3413	3.6415e-01	1.9316e+00
22	TAO120312	305.4812	307.6568	306.5782	3.6679e-01	1.9373e+00
23	TAO130312	311.7204	313.0724	312.2961	2.5351e-01	1.9391e+00
24	TRT020000	217.5984	219.6061	218.5906	4.7697e-01	1.9148e+00
25	TRT070000	272.2526	273.5526	273.0008	2.9272e-01	1.9276e+00
26	TRT100000	307.3404	308.6941	308.2005	2.8493e-01	1.9378e+00
27	TRT120000	317.8571	459.7997	359.4181	6.0031e+01	1.9556e+00
28	TRT125000	97.7378	98.5673	98.1921	1.8490e-01	1.9005e+00
29	TRT130000	317.3447	319.1402	317.8818	4.0126e-01	1.9410e+00
30	EMPTY	39.3761	40.0646	39.8306	1.9938e-01	1.9011e+00
31	TAF050136	144.8889	148.5844	146.8654	8.1893e-01	1.9040e+00
32	TAF070136	170.3293	174.0476	171.9955	9.1786e-01	1.9070e+00
33	TAF080136	269.3618	274.7627	272.8363	1.1608e+00	1.9275e+00
34	TAF090136	94.8615	95.9058	95.4193	2.6542e-01	1.9004e+00
35	TAF100136	207.6237	209.7392	208.5183	4.2703e-01	1.9129e+00
36	TAF105136	213.5620	215.1750	214.3381	4.0080e-01	1.9140e+00
37	TAF110136	221.3549	223.2519	222.3774	4.0109e-01	1.9156e+00
38	TAF115136	229.2238	231.1117	230.1999	4.7361e-01	1.9172e+00
39	TAF120136	278.2258	280.7866	279.8231	6.3269e-01	1.9294e+00
40	TAF125136	243.0475	244.7248	243.9080	3.7634e-01	1.9203e+00
41	TAF130136	247.6415	249.1362	248.4763	3.8433e-01	1.9213e+00
42	TAF120048	253.9667	256.0299	254.8989	4.2343e-01	1.9229e+00
43	TAF130048	277.7997	282.5711	280.3063	1.1020e+00	1.9296e+00
44	TAF120224	230.2515	231.7639	230.8698	3.7889e-01	1.9174e+00
45	TAF130224	238.9788	240.5865	239.7830	3.2265e-01	1.9193e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1354	1.9151e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0417	1.2481e-01	1.9011e+00
48	TAI130048	299.9601	301.1409	300.5392	3.0483e-01	1.9355e+00
49	TAI130136	304.2408	305.3268	304.7169	3.0795e-01	1.9368e+00
50	TAI130224	307.8922	308.9811	308.3406	2.3992e-01	1.9379e+00
51	TAI130312	295.0021	296.3705	295.6498	3.2401e-01	1.9340e+00
52	TRR130000	157.9294	160.5039	159.3054	5.6886e-01	1.9054e+00
53	TSI000001	60.0611	60.7066	60.3305	1.4908e-01	1.9001e+00
54	TSI000002	90.5402	92.1091	91.5753	3.4249e-01	1.9003e+00
55	TSO000001	56.4495	57.2068	56.8412	1.7750e-01	1.9001e+00
56	TSO000002	77.7838	78.7379	78.2737	2.2028e-01	1.9000e+00
57	TAF020136	105.7561	109.7088	107.4941	8.0663e-01	1.9009e+00
58	TAF120312	243.8432	246.8458	245.2568	5.6202e-01	1.9206e+00
59	TAF130312	268.1560	270.5553	269.5129	5.3938e-01	1.9266e+00
60	EMPTY	4.7510	4.7754	4.7624	6.1297e-03	0.0000e+00
61	EMPTY	4.7266	4.7412	4.7359	4.0482e-03	0.0000e+00
62	EMPTY	4.7070	4.7168	4.7108	3.3146e-03	0.0000e+00
63	EMPTY	4.6924	4.7021	4.6973	3.1195e-03	0.0000e+00
64	EMPTY	2.2217	2.2363	2.2324	2.7902e-03	0.0000e+00
65	EMPTY	2.2412	2.2461	2.2459	9.6655e-04	0.0000e+00
66	EMPTY	2.2510	2.2559	2.2512	9.6655e-04	0.0000e+00
67	EMPTY	2.2559	2.2607	2.2604	1.1714e-03	0.0000e+00
68	EMPTY	2.2607	2.2705	2.2639	2.5648e-03	0.0000e+00
69	EMPTY	2.2656	2.2754	2.2707	1.3811e-03	0.0000e+00
70	EMPTY	2.2754	2.2852	2.2759	1.7784e-03	0.0000e+00
71	EMPTY	2.2900	2.2949	2.2902	9.6655e-04	0.0000e+00
72	EMPTY	2.2900	2.2949	2.2944	1.4797e-03	0.0000e+00
73	EMPTY	2.2998	2.3096	2.3046	1.2041e-03	0.0000e+00
74	EMPTY	2.3047	2.3145	2.3096	9.8648e-04	0.0000e+00
75	EMPTY	2.3145	2.3193	2.3187	1.6028e-03	0.0000e+00
76	EMPTY	2.3193	2.3242	2.3237	1.4797e-03	0.0000e+00
77	EMPTY	2.3340	2.3438	2.3342	1.3811e-03	0.0000e+00
78	EMPTY	2.3389	2.3486	2.3463	2.6543e-03	0.0000e+00
79	EMPTY	2.3584	2.3633	2.3602	2.3675e-03	0.0000e+00
80	PAN020136	-19.7512	1.4585	-9.8376	5.6769e+00	8.7035e-01
81	PAN050136	-31.0848	-7.7389	-18.9053	4.7415e+00	1.6807e+00
82	PAN070136	-24.5781	-6.8779	-16.1980	4.8789e+00	8.7094e-01
83	PAN080136	-12.5825	4.1259	-4.4465	4.2954e+00	8.7007e-01
84	PAN090136	-13.1753	9.2551	-6.4660	5.0210e+00	8.7015e-01
85	PAN100136	-2.5777	25.5748	6.1351	5.8108e+00	8.7014e-01
86	PAN105136	-5.0317	4.1236	-1.3345	2.2344e+00	8.7001e-01
87	PAN110136	-6.3829	3.4590	-1.0942	2.5575e+00	8.7000e-01
88	PAN115136	-6.6441	2.2823	-1.4897	1.9565e+00	8.7001e-01
89	PAN120136	-1.1788	4.3907	1.4366	1.3473e+00	8.7001e-01
90	PAN125136	-1.6073	0.3764	-0.6627	5.1466e-01	8.7000e-01
91	PAN130136	-1.8023	-0.4290	-1.1019	3.0931e-01	8.7000e-01
92	PAN120048	-5.1629	-1.9585	-4.4732	5.5745e-01	8.7007e-01
93	PAN130048	1.6258	2.6177	2.1340	2.1994e-01	8.7002e-01
94	PAN120224	-3.0575	4.5719	0.5741	1.8208e+00	8.7000e-01
95	PAN130224	-2.4427	0.7617	-1.3745	6.0684e-01	8.7001e-01
96	PAN120312	-0.2214	5.2718	1.3945	1.2514e+00	8.7001e-01
97	PAN130312	-1.9014	-0.3755	-0.9889	3.3236e-01	8.7000e-01
98	PAB000136	60.3239	61.4225	60.8283	2.5837e-01	5.9960e-01
99	PAB100136	62.2034	62.6154	62.4103	8.4882e-02	6.0062e-01
100	PAB125136	62.5185	62.7474	62.6256	6.1770e-02	6.0076e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.7341	61.4431	60.6057	4.8391e-01	7.6515e-01
102	PRV000001	19.5965	19.8406	19.7210	3.0104e-02	7.5162e-01
103	PSR000001	61.9054	62.2716	62.0396	7.5006e-02	7.6587e-01
104	PFM000001	11.7117	12.0779	11.8801	9.3146e-02	5.0088e-01
105	PAN000136	-69.5357	-38.8655	-54.5668	7.9418e+00	4.9219e+00
106	PFM000002	11.8294	11.9972	11.9100	4.8181e-02	2.0220e-01
107	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
108	EMPTY	-9.2480	-5.8838	-6.8034	7.8351e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0039	1.9730e-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	177.6104	178.0011	177.7784	1.1168e-01	1.3394e+00
113	VPW000002	207.7186	208.3046	207.9101	1.2156e-01	1.4874e+00
114	VPW000003	257.1927	257.5834	257.4153	1.0447e-01	1.7440e+00
115	VPW000004	182.5984	182.9890	182.8407	1.0106e-01	1.3637e+00
116	VPW000005	243.7538	244.1444	243.8359	1.0507e-01	1.6723e+00
117	VPW000006	258.8079	259.3938	258.9796	1.2251e-01	1.7523e+00
118	IPW000001	930.0665	939.8282	934.6739	2.0404e+00	1.0960e+01
119	IPW000002	2219.4189	2238.9316	2233.5857	5.9107e+00	1.9416e+01
120	IPW000003	2254.2000	2263.9500	2259.0745	2.5908e+00	1.9599e+01
121	IPW000004	649.2356	651.1887	650.2124	4.9324e-01	5.5123e+00
122	IPW000005	431.7664	434.2076	432.9869	8.2674e-01	3.9624e+00
123	IPW000006	447.7915	450.2329	448.9728	4.6364e-01	4.0719e+00
124	EMPTY	-0.0293	-0.0098	-0.0190	3.8523e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0125	2.8179e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0148	3.4116e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	2.9986e-03	0.0000e+00
128	IHT000001	218.7575	221.8825	220.5466	7.1394e-01	4.6555e+00
129	IHT000002	225.3455	228.4705	227.0488	7.0481e-01	4.6867e+00
130	IHT000003	227.2311	230.1608	228.8561	7.3232e-01	4.6955e+00
131	IHT000004	222.7877	225.9127	224.7018	7.5283e-01	4.6754e+00
132	IHT000005	220.6731	223.9934	222.4308	7.1572e-01	4.6645e+00
133	IHT000006	214.8174	218.1378	216.5518	6.9993e-01	4.6368e+00
134	IHT000007	224.3540	227.4790	226.0570	7.1031e-01	4.6819e+00
135	IHT000008	221.7623	224.6920	223.4420	6.5673e-01	4.6693e+00
136	IHT000009	221.9464	225.0714	223.5518	6.9619e-01	4.6699e+00
137	IHT000010	53.4518	56.3815	54.9557	6.5703e-01	4.1367e+00
138	IHT000011	222.2994	225.0338	223.8854	6.2843e-01	4.6715e+00
139	IHT000012	218.5472	221.2816	220.0315	6.2639e-01	4.6531e+00
140	IHT000013	158.0078	160.5469	159.6289	6.1034e-01	4.3998e+00
141	IHT000014	218.9679	221.7022	220.5850	5.7459e-01	4.6557e+00
142	IHT000015	163.3714	165.7151	164.7308	5.6215e-01	4.4186e+00
143	IHT000016	151.9982	154.5372	153.4669	5.2975e-01	4.3778e+00
144	IHT000017	182.0237	185.9300	183.8792	6.6410e-01	4.4935e+00
145	IHT000018	184.1121	187.6277	185.7020	6.5318e-01	4.5009e+00
146	IHT000019	178.6734	181.2124	179.8570	6.5007e-01	4.4771e+00
147	IHT000020	183.7365	186.4708	185.0411	6.5130e-01	4.4982e+00
148	IHT000021	-3.2039	0.1164	-1.5906	7.7506e-01	4.1000e+00
149	IHT000022	158.0942	160.6333	159.4106	5.9948e-01	4.3990e+00
150	IHT000023	179.7551	182.2942	181.0831	5.6634e-01	4.4821e+00
151	IHT000024	144.3773	146.7210	145.4789	5.7421e-01	4.3504e+00
152	IHT000025	179.1579	182.0876	180.4899	6.2227e-01	4.4797e+00
153	IHT000026	181.3026	184.0370	182.6698	5.9189e-01	4.4885e+00
154	IHT000027	154.8377	157.1815	155.9706	5.2940e-01	4.3866e+00
155	IHT000028	156.9599	159.8896	158.3193	6.9133e-01	4.3951e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.4012	183.5262	181.6591	7.0604e-01	4.4844e+00
157	IHT000030	183.9656	187.0906	185.0829	6.7663e-01	4.4984e+00
158	IHT000031	181.0322	184.1572	182.2587	6.6969e-01	4.4869e+00
159	IHT000032	183.3045	186.4295	184.6874	6.2495e-01	4.4968e+00
160	IHT000033	183.3271	186.2568	184.6162	6.2639e-01	4.4965e+00
161	IHT000034	161.1253	163.2737	162.2582	5.1599e-01	4.4094e+00
162	IHT000035	212.5902	214.9339	213.8948	5.2858e-01	4.6244e+00
163	IHT000036	159.2060	161.5497	160.3232	4.9918e-01	4.4023e+00

Test: Aug17_17

sum2

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Velocity 1 = 8.8411 (ft/sec) (+/- 2.6863 %)
Velocity 2 = 8.8548 (ft/sec) (+/- 1.8341 %)
Pressure drop = -1.9819 (psi)
Tsats in = 293.1575 (deg F) Tsats out = 295.1653 (deg F)
Phi inner = 297.8104 (kBtu/hr-ft2) (+/- 1.2361 %)
Phi outer = 300.4759 (kBtu/hr-ft2) (+/- 1.2629 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.2466	84.8816	84.6149	1.8543e-01	1.9001e+00
1	TRF000002	84.5785	85.2100	84.8817	1.3556e-01	1.9001e+00
2	TFM000001	86.1865	87.0266	86.6047	2.1065e-01	1.9002e+00
3	TIN000001	85.6288	86.2618	85.9770	1.5971e-01	1.9002e+00
4	TRV000001	87.3413	88.1796	87.8378	2.3448e-01	1.9002e+00
5	TSR000001	154.7638	157.7392	156.2020	8.7663e-01	1.9050e+00
6	TAO020136	147.0894	149.2981	148.0918	5.7248e-01	1.9041e+00
7	TAO050136	221.3219	224.1604	222.5775	7.5281e-01	1.9156e+00
8	TAO070136	219.2854	223.1105	220.8221	9.1619e-01	1.9153e+00
9	TAO080136	263.4662	265.5865	264.6698	4.2696e-01	1.9254e+00
10	TAO090136	276.0419	277.5122	276.5474	2.8899e-01	1.9285e+00
11	TAO100136	270.8962	273.1986	272.1581	4.1372e-01	1.9273e+00
12	TAO105136	277.6126	279.5465	278.6353	4.2749e-01	1.9291e+00
13	TAO110136	96.6940	97.5254	97.1493	1.8402e-01	1.9005e+00
14	TAO115136	282.1276	283.8711	282.9996	4.0031e-01	1.9303e+00
15	TAO120136	308.1701	309.3466	308.8458	2.2492e-01	1.9381e+00
16	TAO125136	278.5685	279.9451	279.2823	3.3521e-01	1.9293e+00
17	TAO130136	296.4747	297.6453	297.0594	2.9170e-01	1.9344e+00
18	TAO120048	121.0121	122.3408	121.7095	3.3277e-01	1.9018e+00
19	TAO130048	316.9349	317.7443	317.3788	1.9757e-01	1.9408e+00
20	TAO120224	304.1801	305.6295	304.8996	3.6900e-01	1.9368e+00
21	TAO130224	286.2391	287.9635	287.0913	3.7659e-01	1.9315e+00
22	TAO120312	305.5719	307.0228	306.2193	3.3172e-01	1.9372e+00
23	TAO130312	311.3617	312.3524	311.9073	2.0971e-01	1.9390e+00
24	TRT020000	217.5024	219.2234	218.3536	4.0895e-01	1.9148e+00
25	TRT070000	272.1587	273.3665	272.7222	3.4199e-01	1.9275e+00
26	TRT100000	307.2482	308.3334	307.8434	2.6934e-01	1.9377e+00
27	TRT120000	322.3481	324.6796	323.0537	5.0404e-01	1.9427e+00
28	TRT125000	100.8382	101.7700	101.2872	2.2885e-01	1.9007e+00
29	TRT130000	316.5361	318.0644	317.6054	2.8614e-01	1.9409e+00
30	EMPTY	39.3761	40.2940	39.7480	2.1192e-01	1.9011e+00
31	TAF050136	144.8894	148.6850	146.8095	8.6357e-01	1.9040e+00
32	TAF070136	170.2319	173.6584	171.9213	7.8823e-01	1.9070e+00
33	TAF080136	269.1784	274.8553	272.1956	1.2457e+00	1.9273e+00
34	TAF090136	97.0495	98.1953	97.6473	2.6845e-01	1.9005e+00
35	TAF100136	207.4318	209.3550	208.3530	3.9244e-01	1.9129e+00
36	TAF105136	213.0869	214.8920	213.9968	4.9174e-01	1.9139e+00
37	TAF110136	221.1652	222.9682	222.1387	4.3056e-01	1.9155e+00
38	TAF115136	228.7508	231.1112	229.9470	5.0463e-01	1.9172e+00
39	TAF120136	278.1359	281.2411	279.4430	7.4921e-01	1.9293e+00
40	TAF125136	242.3970	245.0050	243.5470	5.3802e-01	1.9202e+00
41	TAF130136	246.9886	249.5093	247.9537	4.5420e-01	1.9212e+00
42	TAF120048	253.7789	255.6550	254.7376	4.7615e-01	1.9229e+00
43	TAF130048	278.3514	283.9449	280.5558	1.2678e+00	1.9296e+00
44	TAF120224	229.4953	231.6684	230.5260	4.3036e-01	1.9173e+00
45	TAF130224	238.7905	240.2083	239.5561	3.2096e-01	1.9193e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0894	2.1288e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0830	9.0828e-02	1.9011e+00
48	TAI130048	299.7784	301.0502	300.3830	3.0798e-01	1.9354e+00
49	TAI130136	303.3366	304.8737	304.2650	2.8587e-01	1.9366e+00
50	TAI130224	308.1646	309.6153	308.7686	3.1601e-01	1.9380e+00
51	TAI130312	294.2720	296.3696	295.4237	4.2374e-01	1.9339e+00
52	TRR130000	159.4149	161.0970	160.3580	4.0242e-01	1.9055e+00
53	TSI000001	59.5261	60.3844	59.8891	2.1357e-01	1.9001e+00
54	TSI000002	90.3311	91.7951	91.0153	3.4914e-01	1.9003e+00
55	TSO000001	56.4495	57.2068	56.8369	2.0974e-01	1.9001e+00
56	TSO000002	77.7838	78.7369	78.2780	2.3985e-01	1.9000e+00
57	TAF020136	105.7561	109.0855	107.4733	8.1194e-01	1.9009e+00
58	TAF120312	243.9376	246.3767	245.1405	5.6402e-01	1.9206e+00
59	TAF130312	268.1560	269.9097	269.0038	4.3552e-01	1.9265e+00
60	EMPTY	4.7412	4.7559	4.7484	3.7226e-03	0.0000e+00
61	EMPTY	4.7168	4.7314	4.7227	2.4164e-03	0.0000e+00
62	EMPTY	4.6973	4.7021	4.6982	1.9730e-03	0.0000e+00
63	EMPTY	4.6826	4.6875	4.6853	2.4583e-03	0.0000e+00
64	EMPTY	2.2266	2.2314	2.2284	2.3941e-03	0.0000e+00
65	EMPTY	2.2363	2.2412	2.2409	1.1714e-03	0.0000e+00
66	EMPTY	2.2461	2.2510	2.2463	9.6655e-04	0.0000e+00
67	EMPTY	2.2510	2.2559	2.2558	6.9053e-04	0.0000e+00
68	EMPTY	2.2559	2.2656	2.2602	2.1249e-03	0.0000e+00
69	EMPTY	2.2656	2.2754	2.2669	2.3778e-03	0.0000e+00
70	EMPTY	2.2705	2.2754	2.2721	2.3008e-03	0.0000e+00
71	EMPTY	2.2852	2.2900	2.2854	9.6655e-04	0.0000e+00
72	EMPTY	2.2852	2.2900	2.2899	6.9053e-04	0.0000e+00
73	EMPTY	2.2998	2.2998	2.2998	0.0000e+00	0.0000e+00
74	EMPTY	2.3047	2.3145	2.3053	1.8821e-03	0.0000e+00
75	EMPTY	2.3145	2.3145	2.3145	0.0000e+00	0.0000e+00
76	EMPTY	2.3193	2.3193	2.3193	0.0000e+00	0.0000e+00
77	EMPTY	2.3291	2.3340	2.3292	6.9053e-04	0.0000e+00
78	EMPTY	2.3389	2.3438	2.3430	1.8082e-03	0.0000e+00
79	EMPTY	2.3535	2.3584	2.3574	1.9730e-03	0.0000e+00
80	PAN020136	-19.7512	1.2296	-11.0293	5.1683e+00	8.7044e-01
81	PAN050136	-32.0004	-1.7879	-18.9175	6.6280e+00	1.6807e+00
82	PAN070136	-24.5781	-2.4528	-14.4325	6.1804e+00	8.7075e-01
83	PAN080136	-13.8795	2.1422	-6.9261	4.5039e+00	8.7017e-01
84	PAN090136	-13.0990	7.8056	-4.6090	4.4525e+00	8.7008e-01
85	PAN100136	-2.3488	20.6919	4.8960	5.3959e+00	8.7009e-01
86	PAN105136	-6.7102	4.0473	-1.2277	2.4060e+00	8.7001e-01
87	PAN110136	-7.2222	3.6116	-0.8348	2.3195e+00	8.7000e-01
88	PAN115136	-4.7368	4.8763	-1.0152	2.1628e+00	8.7000e-01
89	PAN120136	-2.2469	4.0092	1.0002	1.2914e+00	8.7000e-01
90	PAN125136	-2.1413	2.6652	-0.2706	7.9171e-01	8.7000e-01
91	PAN130136	-1.8786	-0.4290	-1.0928	2.9619e-01	8.7000e-01
92	PAN120048	-5.4681	-3.4844	-4.6075	4.3049e-01	8.7008e-01
93	PAN130048	1.2444	2.4651	2.0043	2.7268e-01	8.7001e-01
94	PAN120224	-2.8286	5.2585	0.1636	1.9698e+00	8.7000e-01
95	PAN130224	-2.7478	0.1513	-1.5515	5.3958e-01	8.7001e-01
96	PAN120312	-0.1451	4.3563	1.0573	9.2464e-01	8.7000e-01
97	PAN130312	-1.5962	-0.2229	-0.8806	2.8038e-01	8.7000e-01
98	PAB000136	60.0035	61.0106	60.4978	2.5862e-01	5.9940e-01
99	PAB100136	61.9745	62.3407	62.1183	8.5269e-02	6.0043e-01
100	PAB125136	62.2439	62.4270	62.3418	5.2324e-02	6.0058e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.4899	61.0769	60.2883	4.6218e-01	7.6499e-01
102	PRV000001	19.7186	19.7186	19.7186	1.9267e-06	7.5162e-01
103	PSR000001	61.6613	61.7833	61.7638	4.5206e-02	7.6573e-01
104	PFM000001	11.6201	12.1694	11.8893	1.3262e-01	5.0088e-01
105	PAN000136	-67.2469	-36.1190	-54.8689	8.0741e+00	4.9219e+00
106	PFM000002	11.7959	12.0476	11.9264	6.3448e-02	2.0221e-01
107	EMPTY	-0.0049	0.0049	0.0045	1.9331e-03	0.0000e+00
108	EMPTY	-10.0000	-3.9697	-6.4374	9.5973e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0041	1.8082e-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	177.6104	178.0011	177.7706	1.2283e-01	1.3393e+00
113	VPW000002	207.7186	208.1092	207.8671	9.3043e-02	1.4871e+00
114	VPW000003	256.9974	257.5834	257.3177	1.2327e-01	1.7435e+00
115	VPW000004	182.5984	183.1843	182.8446	1.4123e-01	1.3637e+00
116	VPW000005	243.3631	243.9491	243.7695	1.4139e-01	1.6719e+00
117	VPW000006	258.8079	259.1985	259.0108	1.1133e-01	1.7525e+00
118	IPW000001	949.5900	957.3993	952.0110	2.0328e+00	1.1053e+01
119	IPW000002	2209.6626	2221.3704	2215.3999	3.6432e+00	1.9285e+01
120	IPW000003	2234.7000	2240.5498	2238.4443	1.2970e+00	1.9451e+01
121	IPW000004	652.6536	655.5833	653.8843	9.2666e-01	5.5393e+00
122	IPW000005	433.2311	434.2076	433.4850	3.3069e-01	3.9658e+00
123	IPW000006	445.3501	447.3032	446.2092	4.1338e-01	4.0529e+00
124	EMPTY	-0.0244	-0.0146	-0.0189	3.2178e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0127	2.6100e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0151	3.4527e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.3366e-03	0.0000e+00
128	IHT000001	218.7575	221.8825	220.5427	6.3749e-01	4.6555e+00
129	IHT000002	225.3455	228.4705	226.9902	6.5802e-01	4.6864e+00
130	IHT000003	227.2311	230.1608	228.7936	6.6145e-01	4.6952e+00
131	IHT000004	223.3736	225.9127	224.6901	6.2616e-01	4.6753e+00
132	IHT000005	220.8684	223.9934	222.5831	6.3784e-01	4.6652e+00
133	IHT000006	215.4034	217.9424	216.6494	6.0475e-01	4.6372e+00
134	IHT000007	224.7446	227.4790	226.0882	5.6722e-01	4.6820e+00
135	IHT000008	221.9576	224.8873	223.4850	5.6454e-01	4.6695e+00
136	IHT000009	222.1417	225.0714	223.6143	5.5131e-01	4.6702e+00
137	IHT000010	53.8424	55.9908	54.8814	5.1666e-01	4.1366e+00
138	IHT000011	222.6900	224.8385	223.8503	5.0287e-01	4.6713e+00
139	IHT000012	218.5472	221.2816	219.9729	5.4854e-01	4.6528e+00
140	IHT000013	158.2031	160.7422	159.5430	5.4678e-01	4.3995e+00
141	IHT000014	219.1632	221.8976	220.4326	5.5838e-01	4.6550e+00
142	IHT000015	163.3714	166.4964	164.7152	5.8079e-01	4.4185e+00
143	IHT000016	151.9982	154.7326	153.3536	5.5300e-01	4.3774e+00
144	IHT000017	182.4144	185.3441	184.1292	6.2302e-01	4.4945e+00
145	IHT000018	184.1121	187.2371	185.7059	7.1829e-01	4.5010e+00
146	IHT000019	178.6734	181.0171	179.8843	5.6909e-01	4.4773e+00
147	IHT000020	183.9318	186.2755	185.0802	5.1996e-01	4.4984e+00
148	IHT000021	-2.6179	0.1164	-1.5007	6.1262e-01	4.1000e+00
149	IHT000022	158.4848	160.6333	159.4770	5.2621e-01	4.3992e+00
150	IHT000023	180.1458	182.0989	181.1027	4.6730e-01	4.4822e+00
151	IHT000024	144.7679	146.5257	145.5219	4.6018e-01	4.3506e+00
152	IHT000025	179.7439	181.3064	180.4782	4.2601e-01	4.4796e+00
153	IHT000026	181.8885	183.6463	182.6386	4.0503e-01	4.4884e+00
154	IHT000027	155.0331	156.7909	155.9589	4.4957e-01	4.3866e+00
155	IHT000028	156.9599	159.4989	158.4248	5.7892e-01	4.3954e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	180.2058	182.9402	181.7567	6.3676e-01	4.4848e+00
157	IHT000030	183.5750	186.1140	185.2118	6.2001e-01	4.4989e+00
158	IHT000031	180.8368	183.3759	182.3759	5.9535e-01	4.4873e+00
159	IHT000032	183.1092	185.8436	184.8671	6.5910e-01	4.4975e+00
160	IHT000033	182.9365	185.8661	184.7685	6.4945e-01	4.4971e+00
161	IHT000034	160.9300	163.4690	162.3168	5.4712e-01	4.4096e+00
162	IHT000035	212.3949	214.7386	213.8323	5.7691e-01	4.6241e+00
163	IHT000036	159.0107	161.7450	160.3935	5.9692e-01	4.4026e+00

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Velocity 1 = 0.003300 (ft/sec)

Velocity 2 = 0.006001 (ft/sec)

Pressure Drop = 0.010900 (psi)

Tsat in = 0.362701 (deg F) Tsat out = 0.305481 (deg F)

Phi inner = 2.683197 (kBtu/hr-ft2) Phi outer = 0.012299 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0169	0.0200
1	TRF000002	0.0084	0.0099
2	TFM000001	0.0671	0.0774
3	TIN000001	0.1517	0.1761
4	TRV000001	0.1337	0.1520
5	TSR000001	2.7762	1.7463
6	TAO020136	2.1627	1.4394
7	TAO050136	0.1929	0.0867
8	TAO070136	0.3329	0.1505
9	TAO080136	0.7326	0.2760
10	TAO090136	0.4553	0.1644
11	TAO100136	0.2836	0.1041
12	TAO105136	0.4417	0.1583
13	TAO110136	1.2600	1.3140
14	TAO115136	0.1614	0.0570
15	TAO120136	0.2895	0.0937
16	TAO125136	1.9639	0.6983
17	TAO130136	0.6274	0.2108
18	TAO120048	1.7171	1.4310
19	TAO130048	0.0824	0.0260
20	TAO120224	0.3874	0.1269
21	TAO130224	0.2500	0.0870
22	TAO120312	0.3589	0.1171
23	TAO130312	0.3888	0.1245
24	TRT020000	0.2370	0.1084
25	TRT070000	0.2786	0.1020
26	TRT100000	0.3571	0.1159
27	TRT120000	36.3644	10.1176
28	TRT125000	3.0951	3.1521
29	TRT130000	0.2764	0.0869
30	EMPTY	0.0826	0.2074
31	TAF050136	0.0559	0.0381
32	TAF070136	0.0742	0.0431
33	TAF080136	0.6407	0.2348
34	TAF090136	2.2280	2.3350
35	TAF100136	0.1653	0.0793
36	TAF105136	0.3413	0.1592
37	TAF110136	0.2387	0.1073
38	TAF115136	0.2529	0.1099
39	TAF120136	0.3801	0.1358
40	TAF125136	0.3610	0.1480
41	TAF130136	0.5226	0.2103
42	TAF120048	0.1613	0.0633
43	TAF130048	0.2495	0.0890
44	TAF120224	0.3438	0.1489
45	TAF130224	0.2269	0.0946

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dif

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#	Name	Abs Diff	%Diff
46	EMPTY	0.0460	0.1206
47	EMPTY	0.0413	0.1031
48	TAI130048	0.1562	0.0520
49	TAI130136	0.4519	0.1483
50	TAI130224	0.4280	0.1388
51	TAI130312	0.2261	0.0765
52	TRR130000	1.0526	0.6607
53	TSI000001	0.4414	0.7316
54	TSI000002	0.5600	0.6115
55	TSO000001	0.0043	0.0076
56	TSO000002	0.0043	0.0055
57	TAF020136	0.0208	0.0194
58	TAF120312	0.1163	0.0474
59	TAF130312	0.5091	0.1889
60	EMPTY	0.0140	0.2940
61	EMPTY	0.0132	0.2787
62	EMPTY	0.0126	0.2675
63	EMPTY	0.0120	0.2555
64	EMPTY	0.0040	0.1792
65	EMPTY	0.0050	0.2226
66	EMPTY	0.0049	0.2177
67	EMPTY	0.0046	0.2035
68	EMPTY	0.0037	0.1634
69	EMPTY	0.0038	0.1673
70	EMPTY	0.0038	0.1670
71	EMPTY	0.0048	0.2096
72	EMPTY	0.0045	0.1961
73	EMPTY	0.0048	0.2083
74	EMPTY	0.0043	0.1862
75	EMPTY	0.0042	0.1811
76	EMPTY	0.0044	0.1894
77	EMPTY	0.0050	0.2142
78	EMPTY	0.0033	0.1406
79	EMPTY	0.0028	0.1186
80	PAN020136	1.1917	12.1137
81	PAN050136	0.0122	0.0645
82	PAN070136	1.7655	10.8995
83	PAN080136	2.4796	55.7652
84	PAN090136	1.8570	28.7195
85	PAN100136	1.2391	20.1969
86	PAN105136	0.1068	8.0030
87	PAN110136	0.2594	23.7068
88	PAN115136	0.4745	31.8520
89	PAN120136	0.4364	30.3773
90	PAN125136	0.3921	59.1670
91	PAN130136	0.0091	0.8258
92	PAN120048	0.1343	3.0023
93	PAN130048	0.1297	6.0778
94	PAN120224	0.4105	71.5032
95	PAN130224	0.1770	12.8774
96	PAN120312	0.3372	24.1807
97	PAN130312	0.1083	10.9516
98	PAB000136	0.3305	0.5433
99	PAB100136	0.2920	0.4679
100	PAB125136	0.2838	0.4532

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.3174	0.5237
102	PRV000001	0.0024	0.0122
103	PSR000001	0.2758	0.4446
104	PFM000001	0.0092	0.0774
105	PAN000136	0.3021	0.5536
106	PFM000002	0.0164	0.1377
107	EMPTY	0.0002	4.2553
108	EMPTY	0.3660	5.3797
109	EMPTY	0.0002	5.1282
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0078	0.0044
113	VPW000002	0.0430	0.0207
114	VPW000003	0.0976	0.0379
115	VPW000004	0.0039	0.0021
116	VPW000005	0.0664	0.0272
117	VPW000006	0.0312	0.0120
118	IPW000001	17.3371	1.8549
119	IPW000002	18.1858	0.8142
120	IPW000003	20.6301	0.9132
121	IPW000004	3.6719	0.5647
122	IPW000005	0.4981	0.1150
123	IPW000006	2.7636	0.6155
124	EMPTY	0.0001	0.5263
125	EMPTY	0.0002	1.6000
126	EMPTY	0.0003	2.0270
127	EMPTY	0.0008	4.7059
128	IHT000001	0.0039	0.0018
129	IHT000002	0.0586	0.0258
130	IHT000003	0.0625	0.0273
131	IHT000004	0.0117	0.0052
132	IHT000005	0.1523	0.0685
133	IHT000006	0.0976	0.0451
134	IHT000007	0.0312	0.0138
135	IHT000008	0.0430	0.0192
136	IHT000009	0.0625	0.0280
137	IHT000010	0.0743	0.1352
138	IHT000011	0.0351	0.0157
139	IHT000012	0.0586	0.0266
140	IHT000013	0.0859	0.0538
141	IHT000014	0.1524	0.0691
142	IHT000015	0.0156	0.0095
143	IHT000016	0.1133	0.0738
144	IHT000017	0.2500	0.1360
145	IHT000018	0.0039	0.0021
146	IHT000019	0.0273	0.0152
147	IHT000020	0.0391	0.0211
148	IHT000021	0.0899	5.6520
149	IHT000022	0.0664	0.0417
150	IHT000023	0.0196	0.0108
151	IHT000024	0.0430	0.0296
152	IHT000025	0.0117	0.0065
153	IHT000026	0.0312	0.0171
154	IHT000027	0.0117	0.0075
155	IHT000028	0.1055	0.0666

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0976	0.0537
157	IHT000030	0.1289	0.0696
158	IHT000031	0.1172	0.0643
159	IHT000032	0.1797	0.0973
160	IHT000033	0.1523	0.0825
161	IHT000034	0.0586	0.0361
162	IHT000035	0.0625	0.0292
163	IHT000036	0.0703	0.0438

Velocity 1 = 19.9690 (ft/sec) (+/- 1.7206 %)
 Velocity 2 = 13.4149 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 8.4778 (psi)
 Tsat in = 267.5241 (deg F) Tsat out = 254.4574 (deg F)
 Phi inner = 372.0226 (kBtu/hr-ft2) (+/- 1.2166 %)
 Phi outer = 375.8808 (kBtu/hr-ft2) (+/- 1.2304 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	83.3996	84.4583	83.7850	1.9460e-01	1.9001e+00
1	TRF000002	83.7360	84.3679	84.0183	1.4501e-01	1.9001e+00
2	TFM000001	86.8120	87.5471	87.1860	1.8147e-01	1.9002e+00
3	TIN000001	86.3658	86.8928	86.6356	1.1698e-01	1.9002e+00
4	TRV000001	88.1715	89.0092	88.5946	1.9825e-01	1.9002e+00
5	TSR000001	154.2612	156.3465	155.1591	4.0955e-01	1.9049e+00
6	TAO020136	132.8460	136.9020	135.4109	8.1009e-01	1.9029e+00
7	TAO050136	171.8986	174.0506	172.7903	5.2622e-01	1.9071e+00
8	TAO070136	165.1658	168.5409	166.8305	9.5259e-01	1.9063e+00
9	TAO080136	197.7514	198.9076	198.4066	2.6289e-01	1.9111e+00
10	TAO090136	203.4809	204.7296	204.1577	3.0888e-01	1.9121e+00
11	TAO100136	195.4446	196.4123	195.9825	2.6721e-01	1.9107e+00
12	TAO105136	200.0224	201.3758	200.7995	3.0873e-01	1.9115e+00
13	TAO110136	88.6036	89.3386	88.9808	1.7558e-01	1.9002e+00
14	TAO115136	200.0228	201.3745	200.8992	2.7220e-01	1.9115e+00
15	TAO120136	221.2961	222.2483	221.7039	2.1432e-01	1.9154e+00
16	TAO125136	197.3887	208.5345	204.8152	1.9771e+00	1.9122e+00
17	TAO130136	210.6031	211.4580	211.0206	2.2824e-01	1.9134e+00
18	TAO120048	106.4161	107.4501	106.8749	3.0849e-01	1.9009e+00
19	TAO130048	224.8450	225.9821	225.4060	2.4270e-01	1.9162e+00
20	TAO120224	216.7142	217.8595	217.2868	2.3919e-01	1.9146e+00
21	TAO130224	202.8220	204.0629	203.5167	3.0114e-01	1.9120e+00
22	TAO120312	215.6558	216.8984	216.5157	2.2514e-01	1.9144e+00
23	TAO130312	222.4698	223.3243	222.8985	1.8126e-01	1.9157e+00
24	TRT020000	171.7469	172.9305	172.4534	2.7436e-01	1.9071e+00
25	TRT070000	199.6899	200.7581	200.2644	2.1206e-01	1.9114e+00
26	TRT100000	222.7129	223.6621	223.1192	2.1680e-01	1.9157e+00
27	TRT120000	458.7737	459.2022	458.9587	9.8299e-02	1.9993e+00
28	TRT125000	89.0080	89.9481	89.4176	2.0249e-01	1.9003e+00
29	TRT130000	229.1374	230.0824	229.5649	1.9972e-01	1.9171e+00
30	EMPTY	39.3761	40.0646	39.8076	2.1569e-01	1.9011e+00
31	TAF050136	119.5440	121.1755	120.1890	3.7835e-01	1.9017e+00
32	TAF070136	133.5795	135.5938	134.7231	4.9844e-01	1.9028e+00
33	TAF080136	199.2787	203.7784	201.5850	1.1463e+00	1.9116e+00
34	TAF090136	89.2157	90.1600	89.6987	2.6782e-01	1.9003e+00
35	TAF100136	154.0240	155.8216	154.8990	4.3517e-01	1.9048e+00
36	TAF105136	157.2776	159.1543	158.0496	4.2076e-01	1.9052e+00
37	TAF110136	162.0494	163.5325	162.6832	3.1622e-01	1.9058e+00
38	TAF115136	166.2411	167.6217	166.7583	2.8289e-01	1.9063e+00
39	TAF120136	192.1563	196.2046	193.9810	9.8550e-01	1.9103e+00
40	TAF125136	173.2476	174.6122	173.9548	3.4236e-01	1.9073e+00
41	TAF130136	175.8885	176.9669	176.3121	2.5781e-01	1.9076e+00
42	TAF120048	177.1397	178.5194	177.5849	2.6748e-01	1.9078e+00
43	TAF130048	185.5790	186.7488	186.2574	2.4901e-01	1.9091e+00
44	TAF120224	166.5519	167.7383	167.1089	2.8967e-01	1.9063e+00
45	TAF130224	172.5569	174.3363	173.1862	3.9177e-01	1.9072e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	1.9795e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.7250	1.4094e-01	1.9011e+00
48	TAI130048	211.9494	213.7680	213.0558	4.3619e-01	1.9137e+00
49	TAI130136	220.3837	221.5260	221.1591	2.4838e-01	1.9153e+00
50	TAI130224	228.5212	230.0405	229.3002	3.3432e-01	1.9170e+00
51	TAI130312	211.5735	212.8199	212.1988	3.0207e-01	1.9136e+00
52	TRR130000	136.2536	137.4630	136.9832	2.8902e-01	1.9030e+00
53	TSI000001	58.5564	59.3107	58.9135	2.0770e-01	1.9001e+00
54	TSI000002	64.3341	66.2564	65.2741	5.4127e-01	1.9000e+00
55	TSO000001	56.0180	56.6685	56.3304	2.0361e-01	1.9001e+00
56	TSO000002	71.4118	72.2646	71.8300	1.7858e-01	1.9000e+00
57	TAF020136	96.7681	98.4450	97.5313	4.2938e-01	1.9005e+00
58	TAF120312	172.2557	173.9292	172.9688	3.4078e-01	1.9071e+00
59	TAF130312	185.9716	187.4313	186.5554	2.8613e-01	1.9091e+00
60	EMPTY	2.6563	2.6709	2.6634	3.8473e-03	0.0000e+00
61	EMPTY	2.6514	2.6611	2.6569	2.7919e-03	0.0000e+00
62	EMPTY	2.6465	2.6563	2.6504	2.2058e-03	0.0000e+00
63	EMPTY	2.6465	2.6563	2.6515	1.8429e-03	0.0000e+00
64	EMPTY	1.3330	1.3379	1.3334	1.3381e-03	0.0000e+00
65	EMPTY	1.3477	1.3574	1.3526	1.2041e-03	0.0000e+00
66	EMPTY	1.3574	1.3672	1.3627	1.6624e-03	0.0000e+00
67	EMPTY	1.3770	1.3818	1.3779	1.9730e-03	0.0000e+00
68	EMPTY	1.3867	1.3916	1.3876	1.8950e-03	0.0000e+00
69	EMPTY	1.4014	1.4063	1.4015	6.9053e-04	0.0000e+00
70	EMPTY	1.4111	1.4258	1.4127	2.8659e-03	0.0000e+00
71	EMPTY	1.4307	1.4355	1.4312	1.6028e-03	0.0000e+00
72	EMPTY	1.4307	1.4453	1.4403	1.5566e-03	0.0000e+00
73	EMPTY	1.4502	1.4600	1.4590	2.2058e-03	0.0000e+00
74	EMPTY	1.4648	1.4697	1.4695	9.6655e-04	0.0000e+00
75	EMPTY	1.4844	1.4844	1.4844	0.0000e+00	0.0000e+00
76	EMPTY	1.4893	1.4941	1.4940	6.9053e-04	0.0000e+00
77	EMPTY	1.5039	1.5088	1.5087	6.9053e-04	0.0000e+00
78	EMPTY	1.5283	1.5283	1.5283	0.0000e+00	0.0000e+00
79	EMPTY	1.5430	1.5625	1.5473	2.8996e-03	0.0000e+00
80	PAN020136	9.3931	31.2131	21.1698	4.6541e+00	8.7161e-01
81	PAN050136	37.5797	58.9420	47.8977	5.0499e+00	1.6843e+00
82	PAN070136	16.2392	34.3971	24.4927	4.4944e+00	8.7215e-01
83	PAN080136	6.3384	28.8451	16.2871	5.1974e+00	8.7095e-01
84	PAN090136	2.4650	31.1515	16.9089	5.5610e+00	8.7103e-01
85	PAN100136	-4.4851	41.5965	19.3019	9.2257e+00	8.7134e-01
86	PAN105136	-7.6257	29.6057	9.5648	1.0509e+01	8.7033e-01
87	PAN110136	1.9331	38.6305	19.1145	8.7070e+00	8.7131e-01
88	PAN115136	0.1460	32.6473	12.6674	6.1577e+00	8.7058e-01
89	PAN120136	-6.6720	20.4887	7.5813	6.0155e+00	8.7021e-01
90	PAN125136	5.3355	50.0437	19.7215	9.2448e+00	8.7140e-01
91	PAN130136	13.1513	23.9088	18.8413	2.5214e+00	8.7127e-01
92	PAN120048	19.0223	52.8205	34.3406	7.7349e+00	8.7423e-01
93	PAN130048	15.8928	32.0671	22.2389	3.4374e+00	8.7177e-01
94	PAN120224	15.7871	68.8114	31.3251	1.2380e+01	8.7352e-01
95	PAN130224	-8.2410	28.7616	17.4914	1.1211e+01	8.7110e-01
96	PAN120312	18.8521	47.5386	32.3134	7.7865e+00	8.7374e-01
97	PAN130312	16.9432	34.8723	23.3611	3.8361e+00	8.7196e-01
98	PAB000136	39.4957	40.7316	40.1045	1.9515e-01	5.8860e-01
99	PAB100136	34.0509	35.3327	34.5700	3.3557e-01	5.8640e-01
100	PAB125136	31.9399	32.3977	32.1377	1.0999e-01	5.8554e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	38.9821	40.4470	39.8635	4.3020e-01	7.5659e-01
102	PRV0000001	19.2303	19.3524	19.2816	6.0861e-02	7.5155e-01
103	PSR0000001	29.0685	29.5568	29.2418	1.3301e-01	7.5355e-01
104	PFM0000001	60.5093	62.0657	61.3699	3.1661e-01	5.2301e-01
105	PAN000136	222.5175	245.4057	234.7123	5.7886e+00	4.9549e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0094	1.3381e-03	0.0000e+00
108	EMPTY	-10.0000	-6.0986	-8.0099	1.2845e+00	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0055	1.8821e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0049	0.0001	1.2041e-03	0.0000e+00
112	VPW0000001	198.5089	198.8995	198.6494	1.1189e-01	1.4411e+00
113	VPW0000002	232.3280	232.7186	232.5195	9.2456e-02	1.6132e+00
114	VPW0000003	288.0521	288.6381	288.3840	1.4363e-01	1.9105e+00
115	VPW0000004	204.0828	204.4734	204.3407	1.0763e-01	1.4695e+00
116	VPW0000005	272.4647	273.0506	272.6249	1.2283e-01	1.8253e+00
117	VPW0000006	290.0579	290.6438	290.3233	1.4095e-01	1.9211e+00
118	IPW0000001	1066.7306	1074.5399	1069.9717	1.7467e+00	1.1707e+01
119	IPW0000002	2467.2302	2478.9377	2472.2256	2.6197e+00	2.1144e+01
120	IPW0000003	2490.1499	2495.9998	2493.1531	1.2588e+00	2.1296e+01
121	IPW0000004	732.7317	734.1965	733.4252	3.5691e-01	6.1295e+00
122	IPW0000005	484.4955	485.9602	485.1987	3.9652e-01	4.7645e+00
123	IPW0000006	498.0845	500.5259	499.1388	5.1599e-01	4.4214e+00
124	EMPTY	-0.0244	-0.0098	-0.0190	3.1583e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0128	2.9413e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0157	3.4583e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0173	4.2096e-03	0.0000e+00
128	IHT0000001	245.3200	248.2497	246.6872	5.7993e-01	4.7849e+00
129	IHT0000002	252.4940	255.2283	253.8261	5.9802e-01	4.8221e+00
130	IHT0000003	254.9655	257.8951	256.0944	6.4753e-01	4.8341e+00
131	IHT0000004	249.9361	252.4752	251.1003	6.1632e-01	4.8078e+00
132	IHT0000005	247.6262	250.1653	248.8331	5.8085e-01	4.7960e+00
133	IHT0000006	241.5753	243.7237	242.7276	5.6669e-01	4.7646e+00
134	IHT0000007	251.5024	253.4556	252.6663	4.9436e-01	4.8160e+00
135	IHT0000008	248.5201	250.6686	249.7194	4.8006e-01	4.8006e+00
136	IHT0000009	248.5089	250.6573	249.7588	5.1599e-01	4.8008e+00
137	IHT0000010	80.2096	82.7486	81.6588	6.0758e-01	4.1805e+00
138	IHT0000011	248.8619	251.4010	250.2995	6.2110e-01	4.8036e+00
139	IHT0000012	244.7191	247.4534	245.9690	6.4235e-01	4.7812e+00
140	IHT0000013	177.7344	180.2734	178.9883	6.5920e-01	4.4737e+00
141	IHT0000014	245.3351	248.0694	246.8740	6.7039e-01	4.7859e+00
142	IHT0000015	183.4886	185.8323	184.6605	6.1130e-01	4.4967e+00
143	IHT0000016	170.1622	172.7013	171.6270	6.1416e-01	4.4447e+00
144	IHT0000017	204.8753	207.6097	206.2229	6.1034e-01	4.5894e+00
145	IHT0000018	206.5730	209.5027	207.8153	6.4809e-01	4.5966e+00
146	IHT0000019	200.3531	202.6968	201.4430	6.0886e-01	4.5681e+00
147	IHT0000020	206.3927	208.5412	207.6309	6.2591e-01	4.5958e+00
148	IHT0000021	-3.0086	-0.0789	-1.3679	8.0287e-01	4.1000e+00
149	IHT0000022	177.2348	179.7739	178.6293	6.2641e-01	4.4722e+00
150	IHT0000023	201.2395	204.1692	202.8643	6.9971e-01	4.5744e+00
151	IHT0000024	165.4710	168.5960	167.1391	6.6170e-01	4.4276e+00
152	IHT0000025	200.0564	203.1814	201.7517	7.0525e-01	4.5695e+00
153	IHT0000026	202.9823	205.9120	204.4394	6.7452e-01	4.5814e+00
154	IHT0000027	173.0018	176.1268	174.6503	6.6282e-01	4.4565e+00
155	IHT0000028	175.9052	178.6396	177.3271	5.7729e-01	4.4670e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	202.0808	204.6199	203.3036	6.1739e-01	4.5764e+00
157	IHT000030	206.0359	208.5750	207.2001	5.8389e-01	4.5938e+00
158	IHT000031	202.9072	205.2509	204.0596	5.5137e-01	4.5797e+00
159	IHT000032	205.5701	207.7186	206.7070	5.3770e-01	4.5916e+00
160	IHT000033	205.3974	207.7411	206.6084	5.6772e-01	4.5912e+00
161	IHT000034	180.6565	182.6097	181.7621	4.4923e-01	4.4848e+00
162	IHT000035	238.1761	240.3245	239.2815	4.5611e-01	4.7472e+00
163	IHT000036	178.5419	180.6903	179.6279	4.6715e-01	4.4762e+00

Velocity 1 = 19.9532 (ft/sec) (+/- 1.7208 %)
Velocity 2 = 13.4153 (ft/sec) (+/- 1.7033 %)
Pressure drop = 8.5129 (psi)
Tsats in = 267.3661 (deg F) Tsats out = 254.2574 (deg F)
Phi inner = 372.2214 (kBtu/hr-ft2) (+/- 1.2165 %)
Phi outer = 376.8098 (kBtu/hr-ft2) (+/- 1.2300 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	83.3996	84.0349	83.7597	1.8772e-01	1.9001e+00
1	TRF0000002	83.5252	84.1573	83.9509	1.4427e-01	1.9001e+00
2	TFM0000001	87.0223	87.8618	87.5003	1.8383e-01	1.9002e+00
3	TIN0000001	86.6814	87.2087	86.9767	1.3119e-01	1.9002e+00
4	TRV0000001	88.4845	89.4263	88.8826	2.2682e-01	1.9002e+00
5	TSR0000001	152.5723	155.0570	154.1664	7.4756e-01	1.9048e+00
6	TAO020136	127.9631	131.8304	129.7631	1.0127e+00	1.9024e+00
7	TAO050136	171.6039	174.1476	172.6647	6.6161e-01	1.9071e+00
8	TAO070136	165.8619	169.2352	167.2674	8.8113e-01	1.9064e+00
9	TAO080136	198.0406	199.0028	198.5829	2.2820e-01	1.9111e+00
10	TAO090136	203.6725	205.0188	204.4226	3.3507e-01	1.9121e+00
11	TAO100136	195.8308	197.0867	196.3264	2.9338e-01	1.9107e+00
12	TAO105136	200.5052	201.8582	201.2477	3.3098e-01	1.9116e+00
13	TAO110136	88.3963	89.2327	88.7393	1.8308e-01	1.9002e+00
14	TAO115136	200.3120	201.7603	201.2040	3.0928e-01	1.9116e+00
15	TAO120136	221.7720	222.7244	222.1720	2.2015e-01	1.9155e+00
16	TAO125136	201.1451	209.6844	205.7166	2.0933e+00	1.9124e+00
17	TAO130136	211.0731	211.7396	211.4125	1.8104e-01	1.9134e+00
18	TAO120048	106.3119	107.6564	107.1351	3.0768e-01	1.9009e+00
19	TAO130048	225.4118	226.4536	225.8141	2.5428e-01	1.9163e+00
20	TAO120224	217.0957	218.2407	217.7138	2.1574e-01	1.9146e+00
21	TAO130224	203.2958	204.4441	203.8137	2.8228e-01	1.9120e+00
22	TAO120312	216.4199	217.2804	216.8825	2.4756e-01	1.9145e+00
23	TAO130312	222.6594	223.6082	223.2243	2.2285e-01	1.9158e+00
24	TRT020000	172.1411	173.2271	172.7691	2.6349e-01	1.9071e+00
25	TRT070000	200.0783	201.1471	200.5873	2.5090e-01	1.9115e+00
26	TRT100000	222.9024	223.8515	223.4412	2.2070e-01	1.9158e+00
27	TRT120000	458.6889	459.1160	458.9212	9.7805e-02	1.9993e+00
28	TRT125000	88.6946	89.6355	89.2005	2.0076e-01	1.9002e+00
29	TRT130000	229.5144	230.2716	229.8743	1.6669e-01	1.9171e+00
30	EMPTY	39.3761	40.0646	39.8030	2.0217e-01	1.9011e+00
31	TAF050136	119.5440	121.3791	120.5392	4.2169e-01	1.9017e+00
32	TAF070136	134.1839	136.2966	135.1090	4.6352e-01	1.9029e+00
33	TAF080136	200.3308	204.4468	202.2390	1.1537e+00	1.9117e+00
34	TAF090136	87.9589	89.0071	88.4627	2.4152e-01	1.9002e+00
35	TAF100136	153.9243	156.5193	155.2742	4.7034e-01	1.9049e+00
36	TAF105136	157.8694	159.3518	158.5105	3.4309e-01	1.9053e+00
37	TAF110136	162.4449	163.9276	163.1094	2.9130e-01	1.9058e+00
38	TAF115136	166.6354	167.7210	167.1523	2.6484e-01	1.9063e+00
39	TAF120136	191.9616	197.1673	194.6322	1.1175e+00	1.9104e+00
40	TAF125136	173.4426	175.0046	174.3481	3.2993e-01	1.9073e+00
41	TAF130136	176.2800	177.1625	176.6642	1.8661e-01	1.9076e+00
42	TAF120048	177.1397	178.5201	177.9283	2.8447e-01	1.9078e+00
43	TAF130048	186.0665	187.1380	186.5960	2.2029e-01	1.9091e+00
44	TAF120224	166.6504	168.0328	167.3495	3.0166e-01	1.9064e+00
45	TAF130224	172.6568	174.4351	173.3683	2.8095e-01	1.9072e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.0618	2.4597e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.6975	1.2268e-01	1.9011e+00
48	TAI130048	212.6198	214.1503	213.5338	3.8993e-01	1.9138e+00
49	TAI130136	221.0475	221.8093	221.4018	2.2708e-01	1.9154e+00
50	TAI130224	228.9015	230.7040	229.9644	3.7269e-01	1.9172e+00
51	TAI130312	212.0529	213.4908	212.8658	3.2869e-01	1.9137e+00
52	TRR130000	135.2465	137.8653	136.1212	6.4398e-01	1.9029e+00
53	TSI000001	58.8779	59.7372	59.3594	1.7270e-01	1.9001e+00
54	TSI000002	67.3206	68.9183	68.1603	4.3180e-01	1.9000e+00
55	TSO000001	56.1270	56.9927	56.5558	2.0272e-01	1.9001e+00
56	TSO000002	72.6890	73.8591	73.2889	2.2202e-01	1.9000e+00
57	TAF020136	96.6625	98.7605	97.7161	5.0746e-01	1.9005e+00
58	TAF120312	172.5511	173.9287	173.2207	3.0938e-01	1.9072e+00
59	TAF130312	186.3602	187.4313	186.8586	2.4695e-01	1.9092e+00
60	EMPTY	2.6660	2.6807	2.6724	3.7239e-03	0.0000e+00
61	EMPTY	2.6611	2.6709	2.6655	3.4527e-03	0.0000e+00
62	EMPTY	2.6514	2.6660	2.6595	3.0581e-03	0.0000e+00
63	EMPTY	2.6563	2.6660	2.6606	2.8334e-03	0.0000e+00
64	EMPTY	1.3330	1.3428	1.3368	2.2689e-03	0.0000e+00
65	EMPTY	1.3525	1.3574	1.3538	2.1635e-03	0.0000e+00
66	EMPTY	1.3623	1.3672	1.3664	1.8082e-03	0.0000e+00
67	EMPTY	1.3721	1.3818	1.3813	1.8821e-03	0.0000e+00
68	EMPTY	1.3867	1.3916	1.3906	1.9730e-03	0.0000e+00
69	EMPTY	1.4014	1.4111	1.4031	2.5648e-03	0.0000e+00
70	EMPTY	1.4111	1.4160	1.4155	1.4797e-03	0.0000e+00
71	EMPTY	1.4307	1.4355	1.4329	2.4583e-03	0.0000e+00
72	EMPTY	1.4404	1.4453	1.4426	2.4484e-03	0.0000e+00
73	EMPTY	1.4551	1.4648	1.4597	1.5314e-03	0.0000e+00
74	EMPTY	1.4697	1.4746	1.4700	1.1714e-03	0.0000e+00
75	EMPTY	1.4844	1.4941	1.4846	1.3811e-03	0.0000e+00
76	EMPTY	1.4893	1.4941	1.4939	9.6655e-04	0.0000e+00
77	EMPTY	1.5088	1.5137	1.5090	9.6655e-04	0.0000e+00
78	EMPTY	1.5234	1.5283	1.5282	6.9053e-04	0.0000e+00
79	EMPTY	1.5430	1.5479	1.5468	2.0432e-03	0.0000e+00
80	PAN020136	12.3685	32.1287	23.1809	4.6133e+00	8.7193e-01
81	PAN050136	35.5961	59.0946	47.7970	4.7964e+00	1.6842e+00
82	PAN070136	13.2637	33.5579	24.1600	5.1531e+00	8.7209e-01
83	PAN080136	4.5836	25.4882	16.9158	4.8163e+00	8.7103e-01
84	PAN090136	3.0344	29.6256	18.7369	4.9512e+00	8.7126e-01
85	PAN100136	2.3814	30.2287	17.6646	7.3713e+00	8.7112e-01
86	PAN105136	-7.6257	28.8428	10.7978	1.1539e+01	8.7042e-01
87	PAN110136	-6.5355	39.3934	17.7549	1.1213e+01	8.7113e-01
88	PAN115136	2.9689	30.5873	11.4192	6.0660e+00	8.7047e-01
89	PAN120136	-6.7482	22.0146	7.8254	6.3226e+00	8.7022e-01
90	PAN125136	10.5998	43.7876	19.7108	7.0879e+00	8.7139e-01
91	PAN130136	13.4565	24.6717	18.9069	2.5478e+00	8.7128e-01
92	PAN120048	22.6844	68.0030	37.8257	1.1829e+01	8.7512e-01
93	PAN130048	16.1217	28.6339	21.5157	2.8545e+00	8.7166e-01
94	PAN120224	17.9233	57.8250	29.9808	8.8671e+00	8.7322e-01
95	PAN130224	-5.9522	28.0749	20.5477	6.0715e+00	8.7152e-01
96	PAN120312	18.5469	53.4896	36.2853	8.8690e+00	8.7472e-01
97	PAN130312	1.7607	28.6162	20.9807	5.6235e+00	8.7158e-01
98	PAB000136	39.5414	40.6401	39.9983	2.4143e-01	5.8856e-01
99	PAB100136	34.0051	35.1496	34.3942	2.9511e-01	5.8634e-01
100	PAB125136	31.7110	32.2603	32.0278	9.8675e-02	5.8550e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9821	40.5690	39.8318	4.2284e-01	7.5658e-01
102	PRV000001	19.3524	19.5965	19.4793	3.4527e-02	7.5158e-01
103	PSR000001	28.9464	29.3126	29.1564	1.2824e-01	7.5353e-01
104	PFM000001	60.3262	62.0657	61.2692	3.7873e-01	5.2294e-01
105	PAN000136	222.5175	250.4411	235.6828	7.0974e+00	4.9552e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0090	1.8082e-03	0.0000e+00
108	EMPTY	-10.0000	-5.1904	-7.2153	1.0862e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0052	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	198.3136	198.8995	198.6846	1.4895e-01	1.4413e+00
113	VPW000002	232.3280	232.7186	232.6015	1.1161e-01	1.6136e+00
114	VPW000003	288.2474	288.6381	288.4114	1.2072e-01	1.9107e+00
115	VPW000004	204.0828	204.6687	204.3759	1.4895e-01	1.4696e+00
116	VPW000005	272.2694	272.8553	272.6367	1.3462e-01	1.8254e+00
117	VPW000006	290.0579	291.0344	290.3311	1.6269e-01	1.9211e+00
118	IPW000001	1068.6829	1074.5399	1070.6744	1.3940e+00	1.1711e+01
119	IPW000002	2478.9377	2484.7915	2481.5923	1.7523e+00	2.1212e+01
120	IPW000003	2492.0999	2497.9500	2494.8682	1.2514e+00	2.1309e+01
121	IPW000004	733.2200	734.1965	733.5424	3.2133e-01	6.1304e+00
122	IPW000005	484.9838	485.9602	485.3061	3.0578e-01	4.3242e+00
123	IPW000006	498.0845	499.5493	498.7775	3.2851e-01	4.4189e+00
124	EMPTY	-0.0293	-0.0146	-0.0200	3.4527e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.7356e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0162	3.0309e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0177	2.9413e-03	0.0000e+00
128	IHT000001	245.1247	247.8591	246.4802	6.1436e-01	4.7839e+00
129	IHT000002	252.4940	255.0330	253.6073	5.6255e-01	4.8210e+00
130	IHT000003	254.5748	257.3092	255.8054	5.6117e-01	4.8326e+00
131	IHT000004	249.5455	252.0846	250.8112	5.6115e-01	4.8063e+00
132	IHT000005	247.4309	249.7746	248.6065	5.2865e-01	4.7948e+00
133	IHT000006	241.3799	243.7237	242.4893	4.9511e-01	4.7634e+00
134	IHT000007	251.3071	253.6509	252.3812	5.1637e-01	4.8145e+00
135	IHT000008	248.5201	250.4733	249.5710	5.3217e-01	4.7999e+00
136	IHT000009	248.3135	251.0479	249.6768	6.0553e-01	4.8004e+00
137	IHT000010	79.6236	83.3346	81.6353	7.3742e-01	4.1805e+00
138	IHT000011	248.8619	251.7916	250.2956	6.7843e-01	4.8036e+00
139	IHT000012	244.5237	247.4534	245.9846	6.5345e-01	4.7813e+00
140	IHT000013	177.5391	180.6641	178.9570	6.2740e-01	4.4735e+00
141	IHT000014	245.7257	248.2647	246.8858	6.2566e-01	4.7859e+00
142	IHT000015	183.4886	186.0276	184.6488	6.0542e-01	4.4966e+00
143	IHT000016	170.7482	173.0919	171.7130	5.8715e-01	4.4451e+00
144	IHT000017	204.6800	207.2191	205.9261	6.2501e-01	4.5881e+00
145	IHT000018	206.5730	209.3074	207.8388	6.4506e-01	4.5967e+00
146	IHT000019	200.3531	202.5015	201.5367	5.3000e-01	4.5686e+00
147	IHT000020	206.7833	208.5412	207.7559	4.7759e-01	4.5963e+00
148	IHT000021	-2.6179	-0.2742	-1.3523	6.2669e-01	4.1000e+00
149	IHT000022	177.8208	179.5786	178.8051	4.7672e-01	4.4729e+00
150	IHT000023	202.0208	204.1692	203.0206	5.0322e-01	4.5751e+00
151	IHT000024	166.4476	168.4007	167.3109	4.7036e-01	4.4282e+00
152	IHT000025	200.8376	203.1814	201.9274	4.7856e-01	4.5703e+00
153	IHT000026	203.3729	205.7167	204.5331	4.9664e-01	4.5819e+00
154	IHT000027	173.7831	175.7362	174.8105	4.9254e-01	4.4571e+00
155	IHT000028	176.1005	178.4442	177.2294	6.4149e-01	4.4667e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.8855	204.6199	203.2294	6.6103e-01	4.5760e+00
157	IHT000030	205.6453	208.5750	207.1649	6.9843e-01	4.5937e+00
158	IHT000031	202.7118	205.4462	204.0088	7.3267e-01	4.5795e+00
159	IHT000032	205.3748	208.3045	206.6327	7.4363e-01	4.5913e+00
160	IHT000033	205.3974	208.1318	206.5810	7.2803e-01	4.5910e+00
161	IHT000034	180.8519	183.0003	181.6996	5.5749e-01	4.4846e+00
162	IHT000035	238.1761	240.5199	239.2971	5.7156e-01	4.7472e+00
163	IHT000036	178.5419	180.8857	179.5771	5.3706e-01	4.4760e+00

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Velocity 1 = 0.015800 (ft/sec)

Velocity 2 = 0.000401 (ft/sec)

Pressure Drop = 0.035100 (psi)

Tsat in = 0.158020 (deg F) Tsat out = 0.199997 (deg F)

Phi inner = 0.198792 (kBtu/hr-ft2) Phi outer = 0.929016 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0253	0.0302
1	TRF000002	0.0674	0.0802
2	TFM000001	0.3143	0.3605
3	TIN000001	0.3411	0.3937
4	TRV000001	0.2880	0.3251
5	TSR000001	0.9927	0.6398
6	TAO020136	5.6478	4.1709
7	TAO050136	0.1256	0.0727
8	TAO070136	0.4369	0.2619
9	TAO080136	0.1763	0.0889
10	TAO090136	0.2649	0.1298
11	TAO100136	0.3439	0.1755
12	TAO105136	0.4482	0.2232
13	TAO110136	0.2415	0.2714
14	TAO115136	0.3048	0.1517
15	TAO120136	0.4681	0.2111
16	TAO125136	0.9014	0.4401
17	TAO130136	0.3919	0.1857
18	TAO120048	0.2602	0.2435
19	TAO130048	0.4081	0.1810
20	TAO120224	0.4270	0.1965
21	TAO130224	0.2970	0.1459
22	TAO120312	0.3668	0.1694
23	TAO130312	0.3258	0.1462
24	TRT020000	0.3157	0.1831
25	TRT070000	0.3229	0.1612
26	TRT100000	0.3220	0.1443
27	TRT120000	0.0375	0.0082
28	TRT125000	0.2171	0.2428
29	TRT130000	0.3094	0.1348
30	EMPTY	0.0046	0.0115
31	TAF050136	0.3502	0.2914
32	TAF070136	0.3859	0.2864
33	TAF080136	0.6540	0.3244
34	TAF090136	1.2360	1.3779
35	TAF100136	0.3752	0.2422
36	TAF105136	0.4609	0.2916
37	TAF110136	0.4262	0.2620
38	TAF115136	0.3940	0.2363
39	TAF120136	0.6512	0.3357
40	TAF125136	0.3933	0.2261
41	TAF130136	0.3521	0.1997
42	TAF120048	0.3434	0.1934
43	TAF130048	0.3386	0.1818
44	TAF120224	0.2406	0.1440
45	TAF130224	0.1821	0.1051

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dif

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#	Name	Abs Diff	%Diff
46	EMPTY	0.0368	0.0966
47	EMPTY	0.0275	0.0692
48	TAI130048	0.4780	0.2244
49	TAI130136	0.2427	0.1097
50	TAI130224	0.6642	0.2897
51	TAI130312	0.6670	0.3143
52	TRR130000	0.8620	0.6293
53	TSI000001	0.4459	0.7569
54	TSI000002	2.8862	4.4217
55	TSO000001	0.2254	0.4001
56	TSO000002	1.4589	2.0310
57	TAF020136	0.1848	0.1895
58	TAF120312	0.2519	0.1456
59	TAF130312	0.3032	0.1625
60	EMPTY	0.0090	0.3379
61	EMPTY	0.0086	0.3237
62	EMPTY	0.0091	0.3433
63	EMPTY	0.0091	0.3432
64	EMPTY	0.0034	0.2550
65	EMPTY	0.0012	0.0887
66	EMPTY	0.0037	0.2715
67	EMPTY	0.0034	0.2467
68	EMPTY	0.0030	0.2162
69	EMPTY	0.0016	0.1142
70	EMPTY	0.0028	0.1982
71	EMPTY	0.0017	0.1188
72	EMPTY	0.0023	0.1597
73	EMPTY	0.0007	0.0480
74	EMPTY	0.0005	0.0340
75	EMPTY	0.0002	0.0135
76	EMPTY	0.0001	0.0067
77	EMPTY	0.0003	0.0199
78	EMPTY	0.0001	0.0065
79	EMPTY	0.0005	0.0323
80	PAN020136	2.0111	9.4999
81	PAN050136	0.1007	0.2102
82	PAN070136	0.3327	1.3584
83	PAN080136	0.6287	3.8601
84	PAN090136	1.8280	10.8109
85	PAN100136	1.6373	8.4826
86	PAN105136	1.2330	12.8910
87	PAN110136	1.3596	7.1129
88	PAN115136	1.2482	9.8536
89	PAN120136	0.2441	3.2198
90	PAN125136	0.0107	0.0543
91	PAN130136	0.0656	0.3482
92	PAN120048	3.4851	10.1486
93	PAN130048	0.7232	3.2520
94	PAN120224	1.3443	4.2914
95	PAN130224	3.0563	17.4732
96	PAN120312	3.9719	12.2918
97	PAN130312	2.3804	10.1896
98	PAB000136	0.1062	0.2648
99	PAB100136	0.1758	0.5085
100	PAB125136	0.1099	0.3420

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0317	0.0795
102	PRV000001	0.1977	1.0253
103	PSR000001	0.0854	0.2920
104	PFM000001	0.1007	0.1641
105	PAN000136	0.9705	0.4135
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0004	4.2553
108	EMPTY	0.7946	9.9202
109	EMPTY	0.0003	5.4545
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0352	0.0177
113	VPW000002	0.0820	0.0353
114	VPW000003	0.0274	0.0095
115	VPW000004	0.0352	0.0172
116	VPW000005	0.0118	0.0043
117	VPW000006	0.0078	0.0027
118	IPW000001	0.7028	0.0657
119	IPW000002	9.3667	0.3789
120	IPW000003	1.7151	0.0688
121	IPW000004	0.1172	0.0160
122	IPW000005	0.1074	0.0221
123	IPW000006	0.3613	0.0724
124	EMPTY	0.0010	5.2632
125	EMPTY	0.0010	7.8125
126	EMPTY	0.0005	3.1847
127	EMPTY	0.0004	2.3121
128	IHT000001	0.2070	0.0839
129	IHT000002	0.2188	0.0862
130	IHT000003	0.2890	0.1128
131	IHT000004	0.2891	0.1151
132	IHT000005	0.2266	0.0911
133	IHT000006	0.2383	0.0982
134	IHT000007	0.2851	0.1128
135	IHT000008	0.1484	0.0594
136	IHT000009	0.0820	0.0328
137	IHT000010	0.0235	0.0288
138	IHT000011	0.0039	0.0016
139	IHT000012	0.0156	0.0063
140	IHT000013	0.0313	0.0175
141	IHT000014	0.0118	0.0048
142	IHT000015	0.0117	0.0063
143	IHT000016	0.0860	0.0501
144	IHT000017	0.2968	0.1439
145	IHT000018	0.0235	0.0113
146	IHT000019	0.0937	0.0465
147	IHT000020	0.1250	0.0602
148	IHT000021	0.0156	1.1404
149	IHT000022	0.1758	0.0984
150	IHT000023	0.1563	0.0770
151	IHT000024	0.1718	0.1028
152	IHT000025	0.1757	0.0871
153	IHT000026	0.0937	0.0458
154	IHT000027	0.1602	0.0917
155	IHT000028	0.0977	0.0551

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0742	0.0365
157	IHT000030	0.0352	0.0170
158	IHT000031	0.0508	0.0249
159	IHT000032	0.0743	0.0359
160	IHT000033	0.0274	0.0133
161	IHT000034	0.0625	0.0344
162	IHT000035	0.0156	0.0065
163	IHT000036	0.0508	0.0283

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Velocity 1 = 16.0692 (ft/sec) (+/- 1.7866 %)

Velocity 2 = 13.4130 (ft/sec) (+/- 1.7033 %)

Pressure drop = 3.9368 (psi)

Tsat in = 267.7918 (deg F) Tsat out = 261.9453 (deg F)

Phi inner = 375.6472 (kBtu/hr-ft2) (+/- 1.2157 %)

Phi outer = 374.7407 (kBtu/hr-ft2) (+/- 1.2312 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	83.1877	83.8232	83.5352	1.6988e-01	1.9001e+00
1	TRF000002	83.5252	83.9467	83.6854	1.3162e-01	1.9001e+00
2	TFM000001	85.1309	85.8676	85.5020	1.7932e-01	1.9002e+00
3	TIN000001	84.5738	85.2071	84.9666	1.3492e-01	1.9002e+00
4	TRV000001	86.0769	87.2297	86.6440	2.4869e-01	1.9002e+00
5	TSR000001	155.1537	158.3242	156.7668	1.0160e+00	1.9051e+00
6	TAO020136	125.6153	134.7742	132.2874	2.4362e+00	1.9026e+00
7	TAO050136	186.5883	188.4276	187.3901	4.9361e-01	1.9093e+00
8	TAO070136	180.7822	184.0220	181.9921	6.3963e-01	1.9084e+00
9	TAO080136	217.9720	219.3955	218.6173	3.3072e-01	1.9148e+00
10	TAO090136	225.8902	227.1212	226.5108	3.1545e-01	1.9164e+00
11	TAO100136	217.2234	219.2241	218.2829	3.5512e-01	1.9148e+00
12	TAO105136	223.5187	224.7558	224.1050	2.6595e-01	1.9159e+00
13	TAO110136	90.7807	91.6160	91.1864	1.5872e-01	1.9003e+00
14	TAO115136	223.9682	225.1098	224.4860	2.9699e-01	1.9160e+00
15	TAO120136	248.1946	249.2244	248.6548	2.3993e-01	1.9214e+00
16	TAO125136	223.4893	233.7880	228.1854	2.5182e+00	1.9168e+00
17	TAO130136	237.2788	238.3922	237.7900	2.2432e-01	1.9189e+00
18	TAO120048	109.9242	111.0589	110.5430	3.2129e-01	1.9011e+00
19	TAO130048	254.4494	255.5640	254.9515	2.4567e-01	1.9229e+00
20	TAO120224	243.6609	244.8794	244.3287	2.7369e-01	1.9204e+00
21	TAO130224	228.4461	230.3263	229.2520	3.8452e-01	1.9170e+00
22	TAO120312	243.6951	245.0086	244.3408	3.0856e-01	1.9204e+00
23	TAO130312	251.3117	252.2437	251.7333	2.1746e-01	1.9221e+00
24	TRT020000	187.1592	188.3310	187.7334	2.7510e-01	1.9093e+00
25	TRT070000	220.9310	222.0803	221.4865	2.4709e-01	1.9154e+00
26	TRT100000	249.0307	250.1503	249.6310	2.7445e-01	1.9216e+00
27	TRT120000	458.5175	458.8599	458.7228	8.9785e-02	1.9992e+00
28	TRT125000	91.1910	92.1305	91.7669	1.8616e-01	1.9003e+00
29	TRT130000	261.0146	261.8497	261.4042	1.7673e-01	1.9245e+00
30	EMPTY	39.3761	40.2940	39.8168	2.2638e-01	1.9011e+00
31	TAF050136	126.1511	128.0786	127.1496	5.3773e-01	1.9022e+00
32	TAF070136	143.4063	146.4027	144.8895	6.8361e-01	1.9038e+00
33	TAF080136	224.7419	232.1699	229.2585	1.5374e+00	1.9170e+00
34	TAF090136	91.8301	92.9806	92.4498	2.3594e-01	1.9003e+00
35	TAF100136	169.1233	170.6046	169.7910	3.6598e-01	1.9067e+00
36	TAF105136	172.7743	174.9209	173.8718	4.0276e-01	1.9073e+00
37	TAF110136	179.1305	180.4972	179.6035	3.0826e-01	1.9081e+00
38	TAF115136	184.1655	185.5286	184.9135	2.7079e-01	1.9089e+00
39	TAF120136	221.3996	227.1600	224.8588	1.3789e+00	1.9161e+00
40	TAF125136	192.9039	194.4443	193.8477	3.1050e-01	1.9103e+00
41	TAF130136	196.3955	197.3614	196.8903	2.1784e-01	1.9108e+00
42	TAF120048	197.3267	198.3972	197.9182	2.6492e-01	1.9110e+00
43	TAF130048	208.7671	209.7263	209.2545	2.0950e-01	1.9130e+00
44	TAF120224	184.4928	185.6623	185.0661	2.4081e-01	1.9089e+00
45	TAF130224	191.6198	192.7896	192.1113	2.2637e-01	1.9100e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1078	2.2393e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8077	1.1948e-01	1.9011e+00
48	TAI130048	236.8218	238.6121	237.8585	3.8522e-01	1.9189e+00
49	TAI130136	244.5968	245.6270	245.1136	2.6353e-01	1.9205e+00
50	TAI130224	252.6475	254.2373	253.5079	3.3264e-01	1.9226e+00
51	TAI130312	236.1148	237.3418	236.7001	2.9897e-01	1.9186e+00
52	TRR130000	140.9764	143.7823	142.9205	6.4203e-01	1.9036e+00
53	TSI000001	59.6276	60.3795	60.0355	1.8019e-01	1.9001e+00
54	TSI000002	69.3418	70.6184	70.1079	2.8176e-01	1.9000e+00
55	TSO000001	56.3442	57.2105	56.8078	1.9556e-01	1.9001e+00
56	TSO000002	75.4501	76.2990	75.9128	1.9976e-01	1.9000e+00
57	TAF020136	98.0274	99.9124	99.0709	5.2377e-01	1.9006e+00
58	TAF120312	192.0088	193.4648	192.8480	3.5569e-01	1.9101e+00
59	TAF130312	209.4214	211.3360	210.3752	4.1843e-01	1.9132e+00
60	EMPTY	3.2568	3.2813	3.2671	4.5474e-03	0.0000e+00
61	EMPTY	3.2471	3.2617	3.2551	3.0819e-03	0.0000e+00
62	EMPTY	3.2373	3.2471	3.2435	2.9280e-03	0.0000e+00
63	EMPTY	3.2373	3.2471	3.2402	2.9594e-03	0.0000e+00
64	EMPTY	1.5869	1.5918	1.5916	9.6655e-04	0.0000e+00
65	EMPTY	1.6064	1.6211	1.6081	2.8946e-03	0.0000e+00
66	EMPTY	1.6162	1.6211	1.6180	2.3675e-03	0.0000e+00
67	EMPTY	1.6309	1.6357	1.6319	2.0432e-03	0.0000e+00
68	EMPTY	1.6357	1.6455	1.6405	1.2041e-03	0.0000e+00
69	EMPTY	1.6504	1.6553	1.6526	2.4583e-03	0.0000e+00
70	EMPTY	1.6602	1.6650	1.6621	2.4164e-03	0.0000e+00
71	EMPTY	1.6748	1.6797	1.6796	6.9053e-04	0.0000e+00
72	EMPTY	1.6846	1.6895	1.6883	2.1065e-03	0.0000e+00
73	EMPTY	1.6943	1.7090	1.7027	2.6174e-03	0.0000e+00
74	EMPTY	1.7090	1.7139	1.7128	2.0432e-03	0.0000e+00
75	EMPTY	1.7236	1.7285	1.7246	1.9730e-03	0.0000e+00
76	EMPTY	1.7334	1.7383	1.7338	1.3381e-03	0.0000e+00
77	EMPTY	1.7480	1.7529	1.7484	1.3381e-03	0.0000e+00
78	EMPTY	1.7627	1.7676	1.7656	2.4164e-03	0.0000e+00
79	EMPTY	1.7773	1.7871	1.7827	1.7784e-03	0.0000e+00
80	PAN020136	0.0089	18.7009	9.9912	3.6362e+00	8.7036e-01
81	PAN050136	7.9777	25.9830	16.4616	4.3181e+00	1.6805e+00
82	PAN070136	-10.9215	11.5852	1.7891	4.4590e+00	8.7001e-01
83	PAN080136	-5.4872	15.1885	5.4976	4.8427e+00	8.7011e-01
84	PAN090136	-13.1753	27.4131	0.3699	1.0606e+01	8.7000e-01
85	PAN100136	2.2288	45.4875	23.3744	1.0856e+01	8.7196e-01
86	PAN105136	-7.5494	17.4750	4.7934	5.5797e+00	8.7008e-01
87	PAN110136	-7.2222	22.8377	6.1339	5.7070e+00	8.7014e-01
88	PAN115136	0.1460	24.7890	8.6436	6.0914e+00	8.7027e-01
89	PAN120136	-3.2387	13.3171	7.8880	3.1196e+00	8.7022e-01
90	PAN125136	3.9622	22.5779	12.3500	4.0967e+00	8.7055e-01
91	PAN130136	4.2249	17.5764	9.6860	3.3749e+00	8.7034e-01
92	PAN120048	15.6654	48.9295	23.4763	6.5161e+00	8.7198e-01
93	PAN130048	4.7539	13.5277	8.8539	2.4288e+00	8.7028e-01
94	PAN120224	10.7517	28.0704	18.1796	3.8367e+00	8.7119e-01
95	PAN130224	9.6881	19.8352	15.6070	2.3450e+00	8.7087e-01
96	PAN120312	7.0266	27.0156	17.6162	4.3209e+00	8.7111e-01
97	PAN130312	2.8288	17.1721	10.8519	3.1974e+00	8.7042e-01
98	PAB000136	39.9534	40.6401	40.2848	1.5953e-01	5.8865e-01
99	PAB100136	37.5757	38.3997	37.8961	1.7813e-01	5.8769e-01
100	PAB125136	36.2887	36.8838	36.5057	1.4529e-01	5.8714e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3483	40.4470	39.9904	3.5208e-01	7.5663e-01
102	PRV000001	19.4744	19.4744	19.4744	1.9267e-06	7.5158e-01
103	PSR000001	34.6837	34.8058	34.7203	5.6508e-02	7.5501e-01
104	PFM000001	39.0859	40.0930	39.6609	2.6997e-01	5.0974e-01
105	PAN000136	96.6325	121.8095	108.9921	5.1575e+00	4.9275e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0080	2.3675e-03	0.0000e+00
108	EMPTY	-10.0000	-6.4258	-7.8695	1.0920e+00	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	0.0002	9.6655e-04	0.0000e+00
112	VPW000001	198.5089	199.0948	198.8252	1.1084e-01	1.4420e+00
113	VPW000002	232.7186	233.1092	232.8593	1.1189e-01	1.6150e+00
114	VPW000003	288.4427	289.0287	288.7122	1.1765e-01	1.9123e+00
115	VPW000004	204.2781	204.8640	204.5673	1.1995e-01	1.4706e+00
116	VPW000005	272.6600	273.0506	272.9374	1.1223e-01	1.8270e+00
117	VPW000006	290.4485	291.0344	290.6476	1.1497e-01	1.9228e+00
118	IPW000001	1053.0642	1056.9689	1054.2350	1.0435e+00	1.1618e+01
119	IPW000002	2469.1814	2478.9377	2474.9182	2.6565e+00	2.1163e+01
120	IPW000003	2517.4500	2521.3499	2518.8931	1.1009e+00	2.1485e+01
121	IPW000004	727.3606	730.2903	727.8686	7.1109e-01	6.0881e+00
122	IPW000005	481.0779	482.5426	481.7127	3.1579e-01	4.2991e+00
123	IPW000006	498.5728	499.5493	499.1584	3.1195e-01	4.4215e+00
124	EMPTY	-0.0244	-0.0146	-0.0188	3.4187e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	3.0581e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0149	3.3322e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	3.4470e-03	0.0000e+00
128	IHT000001	244.9294	248.0544	246.3786	5.8406e-01	4.7833e+00
129	IHT000002	252.1033	255.0330	253.4863	5.7837e-01	4.8203e+00
130	IHT000003	254.3795	257.1139	255.6726	5.7709e-01	4.8319e+00
131	IHT000004	249.5455	252.2799	250.6628	6.1007e-01	4.8055e+00
132	IHT000005	247.2356	249.7746	248.3995	5.6766e-01	4.7938e+00
133	IHT000006	241.3799	243.9190	242.4190	4.9825e-01	4.7631e+00
134	IHT000007	251.3071	253.4556	252.3968	5.0237e-01	4.8146e+00
135	IHT000008	248.5201	250.4733	249.6140	4.7679e-01	4.8001e+00
136	IHT000009	248.5089	250.6573	249.5947	5.2521e-01	4.8000e+00
137	IHT000010	80.2096	82.5533	81.5611	5.6475e-01	4.1803e+00
138	IHT000011	249.0572	251.2057	250.2019	5.0688e-01	4.8031e+00
139	IHT000012	244.5237	247.0628	245.8792	5.3730e-01	4.7808e+00
140	IHT000013	177.5391	180.0781	178.8242	5.6233e-01	4.4730e+00
141	IHT000014	245.3351	248.0694	246.6553	5.1533e-01	4.7848e+00
142	IHT000015	183.0979	185.8323	184.4574	4.9436e-01	4.4958e+00
143	IHT000016	170.1622	172.5060	171.5060	4.8591e-01	4.4443e+00
144	IHT000017	204.4847	207.0237	205.6683	6.2938e-01	4.5869e+00
145	IHT000018	206.3777	209.3074	207.6864	6.5227e-01	4.5960e+00
146	IHT000019	200.1577	202.6968	201.1930	5.6531e-01	4.5670e+00
147	IHT000020	206.3927	208.3458	207.2872	4.8019e-01	4.5942e+00
148	IHT000021	-3.0086	-0.4695	-1.6922	6.0078e-01	4.1000e+00
149	IHT000022	177.0395	178.9926	178.1098	4.3805e-01	4.4702e+00
150	IHT000023	201.4348	203.7786	202.5323	4.5829e-01	4.5730e+00
151	IHT000024	165.8616	168.0101	166.8266	4.7745e-01	4.4264e+00
152	IHT000025	200.2517	202.7907	201.4782	5.2205e-01	4.5683e+00
153	IHT000026	202.9823	205.3260	204.1503	5.2717e-01	4.5801e+00
154	IHT000027	172.8065	175.5409	174.2675	5.4138e-01	4.4550e+00
155	IHT000028	175.7099	178.6396	176.8857	7.3767e-01	4.4653e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.4949	204.8152	202.9130	8.0945e-01	4.5746e+00
157	IHT000030	205.2547	208.9656	206.7704	7.5753e-01	4.5919e+00
158	IHT000031	201.9306	205.6415	203.4697	6.8872e-01	4.5771e+00
159	IHT000032	204.7889	207.9139	206.1640	6.6610e-01	4.5892e+00
160	IHT000033	204.6161	207.7411	206.0889	6.4260e-01	4.5888e+00
161	IHT000034	180.2659	182.8050	181.3558	5.2806e-01	4.4832e+00
162	IHT000035	237.7855	240.3245	238.8831	5.6205e-01	4.7452e+00
163	IHT000036	178.3466	180.6903	179.3388	5.3502e-01	4.4751e+00

Velocity 1 = 16.0580 (ft/sec) (+/- 1.7870 %)
Velocity 2 = 13.4160 (ft/sec) (+/- 1.7033 %)
Pressure drop = 3.9411 (psi)
Tsats in = 267.9286 (deg F) Tsats out = 262.1731 (deg F)
Phi inner = 375.7982 (kBtu/hr-ft2) (+/- 1.2157 %)
Phi outer = 374.7680 (kBtu/hr-ft2) (+/- 1.2312 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.9758	83.6114	83.3911	1.6554e-01	1.9001e+00
1	TRF000002	83.1037	83.7360	83.5463	1.2229e-01	1.9001e+00
2	TFM000001	87.6488	88.4884	88.1461	2.0296e-01	1.9002e+00
3	TIN000001	87.2076	87.8396	87.5552	1.3661e-01	1.9002e+00
4	TRV000001	89.3164	90.0500	89.7005	1.8724e-01	1.9003e+00
5	TSR000001	165.5270	168.0862	166.4116	6.1391e-01	1.9063e+00
6	TAO020136	132.9478	136.3957	134.6990	8.4074e-01	1.9028e+00
7	TAO050136	188.3279	190.2626	189.2588	4.9653e-01	1.9096e+00
8	TAO070136	182.8446	185.4921	184.1570	5.4243e-01	1.9088e+00
9	TAO080136	219.9593	221.3792	220.7380	3.0134e-01	1.9152e+00
10	TAO090136	227.8752	229.4834	228.9061	3.8366e-01	1.9169e+00
11	TAO100136	219.7924	221.3132	220.7115	3.4400e-01	1.9152e+00
12	TAO105136	225.6110	226.8464	226.3046	2.6542e-01	1.9164e+00
13	TAO110136	90.3636	90.7837	90.5768	1.2215e-01	1.9003e+00
14	TAO115136	225.7725	227.6714	226.9026	3.9449e-01	1.9165e+00
15	TAO120136	250.1579	251.5607	251.0014	3.0309e-01	1.9219e+00
16	TAO125136	225.5723	241.4893	231.0105	3.1965e+00	1.9174e+00
17	TAO130136	239.5893	240.7985	240.2187	2.7708e-01	1.9194e+00
18	TAO120048	110.6449	111.6760	111.2285	2.7970e-01	1.9011e+00
19	TAO130048	256.9539	258.0672	257.6346	2.5343e-01	1.9236e+00
20	TAO120224	246.0967	247.4075	246.6639	3.0939e-01	1.9209e+00
21	TAO130224	231.2574	232.5676	231.9834	3.3431e-01	1.9176e+00
22	TAO120312	246.0400	247.7272	246.9046	4.1334e-01	1.9210e+00
23	TAO130312	253.0786	254.0108	253.6436	2.3903e-01	1.9226e+00
24	TRT020000	189.0133	189.9882	189.4365	2.3845e-01	1.9096e+00
25	TRT070000	223.0388	224.1866	223.5576	2.9120e-01	1.9158e+00
26	TRT100000	251.2651	252.1975	251.7705	2.4338e-01	1.9221e+00
27	TRT120000	458.3469	458.7741	458.6084	9.0480e-02	1.9992e+00
28	TRT125000	90.4620	91.1935	90.8857	1.8078e-01	1.9003e+00
29	TRT130000	263.8812	264.7153	264.2837	1.6798e-01	1.9253e+00
30	EMPTY	39.3761	40.2940	39.8214	2.0427e-01	1.9011e+00
31	TAF050136	128.5829	130.6074	129.6817	5.7136e-01	1.9024e+00
32	TAF070136	146.3987	148.3936	147.4553	5.5254e-01	1.9040e+00
33	TAF080136	229.0686	234.6045	232.2668	1.2770e+00	1.9177e+00
34	TAF090136	91.5172	92.4583	92.0376	2.5304e-01	1.9003e+00
35	TAF100136	171.5902	173.1680	172.2042	3.2873e-01	1.9070e+00
36	TAF105136	175.5972	177.4487	176.3341	3.9077e-01	1.9076e+00
37	TAF110136	181.3721	182.7371	182.0684	2.8610e-01	1.9084e+00
38	TAF115136	186.7903	187.9574	187.3254	2.7295e-01	1.9093e+00
39	TAF120136	224.8972	230.8345	228.3916	1.2781e+00	1.9168e+00
40	TAF125136	195.7866	197.1321	196.3529	2.8860e-01	1.9107e+00
41	TAF130136	198.8055	199.7687	199.2822	2.0001e-01	1.9112e+00
42	TAF120048	199.9522	201.2146	200.5097	2.7313e-01	1.9114e+00
43	TAF130048	211.1613	212.6932	211.9523	2.9062e-01	1.9135e+00
44	TAF120224	186.7312	188.2880	187.4650	3.2784e-01	1.9093e+00
45	TAF130224	194.1552	195.2262	194.6365	2.4525e-01	1.9104e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1032	2.2378e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7893	1.2268e-01	1.9011e+00
48	TAI130048	239.6450	241.3377	240.4257	3.8518e-01	1.9195e+00
49	TAI130136	247.0262	248.1463	247.4650	2.7818e-01	1.9211e+00
50	TAI130224	255.1710	256.5720	255.8380	3.0480e-01	1.9231e+00
51	TAI130312	238.6612	239.7919	239.2358	2.7134e-01	1.9192e+00
52	TRR130000	141.2750	143.1815	142.1762	4.2665e-01	1.9035e+00
53	TSI000001	59.5196	60.4858	59.9940	1.6959e-01	1.9001e+00
54	TSI000002	68.2762	70.4059	69.3352	5.7008e-01	1.9000e+00
55	TSO000001	56.4531	57.2105	56.8061	1.9035e-01	1.9001e+00
56	TSO000002	75.7678	76.5105	76.0631	1.9454e-01	1.9000e+00
57	TAF020136	100.4366	102.5272	101.5720	5.1421e-01	1.9007e+00
58	TAF120312	194.7252	196.5658	195.4640	3.7031e-01	1.9106e+00
59	TAF130312	212.1947	213.9155	213.2291	3.9307e-01	1.9138e+00
60	EMPTY	3.3350	3.3496	3.3424	4.0960e-03	0.0000e+00
61	EMPTY	3.3252	3.3350	3.3305	3.2479e-03	0.0000e+00
62	EMPTY	3.3154	3.3203	3.3185	2.3941e-03	0.0000e+00
63	EMPTY	3.3105	3.3203	3.3146	2.3531e-03	0.0000e+00
64	EMPTY	1.6211	1.6309	1.6240	2.6100e-03	0.0000e+00
65	EMPTY	1.6357	1.6406	1.6396	1.9730e-03	0.0000e+00
66	EMPTY	1.6455	1.6504	1.6493	2.0432e-03	0.0000e+00
67	EMPTY	1.6602	1.6650	1.6624	2.4583e-03	0.0000e+00
68	EMPTY	1.6650	1.6748	1.6700	1.5566e-03	0.0000e+00
69	EMPTY	1.6748	1.6846	1.6822	2.6543e-03	0.0000e+00
70	EMPTY	1.6895	1.6943	1.6913	2.3941e-03	0.0000e+00
71	EMPTY	1.7041	1.7090	1.7088	9.6655e-04	0.0000e+00
72	EMPTY	1.7139	1.7188	1.7162	2.4642e-03	0.0000e+00
73	EMPTY	1.7285	1.7334	1.7305	2.4164e-03	0.0000e+00
74	EMPTY	1.7334	1.7432	1.7396	2.4244e-03	0.0000e+00
75	EMPTY	1.7480	1.7529	1.7527	9.6655e-04	0.0000e+00
76	EMPTY	1.7578	1.7627	1.7614	2.1635e-03	0.0000e+00
77	EMPTY	1.7725	1.7773	1.7747	2.3675e-03	0.0000e+00
78	EMPTY	1.7871	1.7969	1.7920	1.3951e-03	0.0000e+00
79	EMPTY	1.8066	1.8115	1.8073	1.7115e-03	0.0000e+00
80	PAN020136	-1.9747	17.3276	10.2384	3.4431e+00	8.7038e-01
81	PAN050136	5.5363	28.4245	15.8512	4.5839e+00	1.6805e+00
82	PAN070136	-11.1504	10.6697	0.3807	5.2639e+00	8.7000e-01
83	PAN080136	-5.8686	24.8778	8.4777	5.9482e+00	8.7026e-01
84	PAN090136	-13.0990	23.5221	4.8682	1.0354e+01	8.7009e-01
85	PAN100136	4.1362	41.9780	22.7412	9.7282e+00	8.7186e-01
86	PAN105136	-7.7020	11.9818	3.6612	5.3513e+00	8.7005e-01
87	PAN110136	-0.6609	18.2600	8.7874	3.3526e+00	8.7028e-01
88	PAN115136	-0.6169	13.7264	6.7714	3.9530e+00	8.7016e-01
89	PAN120136	1.3389	13.6222	8.0146	2.7706e+00	8.7023e-01
90	PAN125136	1.8260	20.2891	12.5361	3.5488e+00	8.7056e-01
91	PAN130136	3.6909	16.5845	8.8682	2.5802e+00	8.7028e-01
92	PAN120048	14.1395	26.5754	19.8020	2.7029e+00	8.7141e-01
93	PAN130048	7.0427	16.0454	10.4668	2.0987e+00	8.7039e-01
94	PAN120224	10.9043	26.6971	17.9813	3.6770e+00	8.7116e-01
95	PAN130224	11.9006	22.0477	16.5484	2.4505e+00	8.7098e-01
96	PAN120312	10.8413	24.3453	17.5582	3.2648e+00	8.7111e-01
97	PAN130312	0.3111	13.0522	7.8307	3.0995e+00	8.7022e-01
98	PAB000136	39.9076	40.8232	40.3773	1.8881e-01	5.8872e-01
99	PAB100136	37.7588	38.3081	38.0051	1.3620e-01	5.8773e-01
100	PAB125136	36.4718	36.9295	36.6467	1.1201e-01	5.8719e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3483	40.8132	40.1150	3.8050e-01	7.5668e-01
102	PRV000001	19.4744	19.5965	19.4866	3.6993e-02	7.5158e-01
103	PSR000001	34.8058	35.0499	34.8864	6.8033e-02	7.5505e-01
104	PFM000001	39.0859	40.0930	39.5877	2.4275e-01	5.0970e-01
105	PAN000136	95.7170	120.8940	109.1112	5.6617e+00	4.9276e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0079	2.3941e-03	0.0000e+00
108	EMPTY	-9.9121	-5.9521	-7.1529	9.1516e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0052	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	198.7042	199.0948	198.8526	1.2823e-01	1.4421e+00
113	VPW000002	232.7186	233.1092	232.8866	9.6735e-02	1.6151e+00
114	VPW000003	288.6381	289.0287	288.8020	1.2072e-01	1.9128e+00
115	VPW000004	204.2781	204.6687	204.5595	1.0559e-01	1.4705e+00
116	VPW000005	272.4647	273.0506	272.8710	1.2378e-01	1.8266e+00
117	VPW000006	290.4485	290.8391	290.6241	1.1334e-01	1.9227e+00
118	IPW000001	1047.2072	1056.9689	1052.5562	2.4572e+00	1.1608e+01
119	IPW000002	2473.0840	2478.9377	2475.5803	1.3099e+00	2.1168e+01
120	IPW000003	2515.4998	2521.3499	2518.9319	1.6509e+00	2.1485e+01
121	IPW000004	726.8723	728.8254	727.6537	5.8361e-01	6.0864e+00
122	IPW000005	481.0779	483.5191	482.6014	9.1281e-01	4.3053e+00
123	IPW000006	498.5728	501.0142	499.5880	7.2383e-01	4.4246e+00
124	EMPTY	-0.0244	-0.0146	-0.0189	3.7745e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0126	2.6267e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0148	3.2658e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0171	3.1583e-03	0.0000e+00
128	IHT000001	245.3200	248.0544	246.4216	5.8229e-01	4.7836e+00
129	IHT000002	252.2987	255.0330	253.4863	5.7702e-01	4.8203e+00
130	IHT000003	254.3795	256.9186	255.6726	5.9174e-01	4.8319e+00
131	IHT000004	249.3502	252.0846	250.6042	6.3637e-01	4.8052e+00
132	IHT000005	247.0403	249.5793	248.3018	5.7210e-01	4.7933e+00
133	IHT000006	241.3799	243.5284	242.3643	5.8655e-01	4.7628e+00
134	IHT000007	251.3071	253.6509	252.3069	5.2887e-01	4.8141e+00
135	IHT000008	248.3248	251.0592	249.5437	5.4898e-01	4.7997e+00
136	IHT000009	248.1182	251.4385	249.4932	6.4472e-01	4.7994e+00
137	IHT000010	79.8190	82.9440	81.5963	6.5939e-01	4.1804e+00
138	IHT000011	248.8619	251.4010	250.2644	5.5480e-01	4.8035e+00
139	IHT000012	244.9144	247.2581	245.8714	5.5838e-01	4.7807e+00
140	IHT000013	177.9297	180.2734	178.9258	5.2534e-01	4.4734e+00
141	IHT000014	245.5304	248.2647	246.6670	5.2004e-01	4.7848e+00
142	IHT000015	183.2933	185.6370	184.5003	4.8116e-01	4.4960e+00
143	IHT000016	170.5529	172.8966	171.6700	4.8815e-01	4.4449e+00
144	IHT000017	204.2894	207.2191	205.9808	6.4791e-01	4.5883e+00
145	IHT000018	206.1824	209.1121	207.7802	6.2601e-01	4.5964e+00
146	IHT000019	199.5718	202.5015	201.1187	6.4457e-01	4.5667e+00
147	IHT000020	205.8068	208.3458	207.2403	5.7400e-01	4.5940e+00
148	IHT000021	-3.3992	-0.2742	-1.6765	6.8877e-01	4.1000e+00
149	IHT000022	177.0395	179.1879	178.1645	4.9530e-01	4.4704e+00
150	IHT000023	201.4348	203.9739	202.5089	5.5278e-01	4.5729e+00
151	IHT000024	165.6663	168.0101	166.8070	5.2104e-01	4.4263e+00
152	IHT000025	200.2517	202.9861	201.4743	5.6471e-01	4.5683e+00
153	IHT000026	202.9823	205.9120	204.1503	6.4777e-01	4.5801e+00
154	IHT000027	173.1971	175.9315	174.2675	5.6392e-01	4.4550e+00
155	IHT000028	175.9052	178.4442	177.0654	6.2814e-01	4.4660e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	202.0808	204.4246	203.0146	6.4270e-01	4.5751e+00
157	IHT000030	205.6453	208.1844	206.8798	6.2195e-01	4.5924e+00
158	IHT000031	202.5165	205.2509	203.6767	6.2814e-01	4.5780e+00
159	IHT000032	204.9842	207.7186	206.3632	6.4647e-01	4.5901e+00
160	IHT000033	205.0068	207.7411	206.3076	6.4671e-01	4.5898e+00
161	IHT000034	180.4612	182.4144	181.4769	4.5677e-01	4.4837e+00
162	IHT000035	237.7855	240.1292	238.9456	4.7089e-01	4.7455e+00
163	IHT000036	178.1513	180.4950	179.3584	5.0175e-01	4.4751e+00

Velocity 1 = 0.011200 (ft/sec)
 Velocity 2 = 0.003000 (ft/sec)
 Pressure Drop = 0.004300 (psi)
 Tsat in = 0.136780 (deg F) Tsat out = 0.227783 (deg F)
 Phi inner = 0.151001 (kBtu/hr-ft2) Phi outer = 0.027313 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1441	0.1725
1	TRF000002	0.1391	0.1662
2	TFM000001	2.6441	3.0924
3	TIN000001	2.5886	3.0466
4	TRV000001	3.0565	3.5277
5	TSR000001	9.6448	6.1523
6	TAO020136	2.4116	1.8230
7	TAO050136	1.8687	0.9972
8	TAO070136	2.1649	1.1896
9	TAO080136	2.1207	0.9701
10	TAO090136	2.3953	1.0575
11	TAO100136	2.4286	1.1126
12	TAO105136	2.1996	0.9815
13	TAO110136	0.6096	0.6685
14	TAO115136	2.4166	1.0765
15	TAO120136	2.3466	0.9437
16	TAO125136	2.8251	1.2381
17	TAO130136	2.4287	1.0214
18	TAO120048	0.6855	0.6201
19	TAO130048	2.6831	1.0524
20	TAO120224	2.3352	0.9558
21	TAO130224	2.7314	1.1914
22	TAO120312	2.5638	1.0493
23	TAO130312	1.9103	0.7589
24	TRT020000	1.7031	0.9072
25	TRT070000	2.0711	0.9351
26	TRT100000	2.1395	0.8571
27	TRT120000	0.1144	0.0249
28	TRT125000	0.8812	0.9603
29	TRT130000	2.8795	1.1015
30	EMPTY	0.0046	0.0116
31	TAF050136	2.5321	1.9914
32	TAF070136	2.5658	1.7709
33	TAF080136	3.0083	1.3122
34	TAF090136	0.4122	0.4459
35	TAF100136	2.4132	1.4213
36	TAF105136	2.4623	1.4162
37	TAF110136	2.4649	1.3724
38	TAF115136	2.4119	1.3043
39	TAF120136	3.5328	1.5711
40	TAF125136	2.5052	1.2924
41	TAF130136	2.3919	1.2148
42	TAF120048	2.5915	1.3094
43	TAF130048	2.6978	1.2892
44	TAF120224	2.3989	1.2962
45	TAF130224	2.5252	1.3145

#	Name	Abs Diff	%Diff
46	EMPTY	0.0046	0.0121
47	EMPTY	0.0184	0.0462
48	TAI130048	2.5672	1.0793
49	TAI130136	2.3514	0.9593
50	TAI130224	2.3301	0.9191
51	TAI130312	2.5357	1.0713
52	TRR130000	0.7443	0.5208
53	TSI000001	0.0415	0.0691
54	TSI000002	0.7727	1.1022
55	TSO000001	0.0017	0.0030
56	TSO000002	0.1503	0.1980
57	TAF020136	2.5011	2.5246
58	TAF120312	2.6160	1.3565
59	TAF130312	2.8539	1.3566
60	EMPTY	0.0753	2.3048
61	EMPTY	0.0754	2.3164
62	EMPTY	0.0750	2.3123
63	EMPTY	0.0744	2.2962
64	EMPTY	0.0324	2.0357
65	EMPTY	0.0315	1.9588
66	EMPTY	0.0313	1.9345
67	EMPTY	0.0305	1.8690
68	EMPTY	0.0295	1.7982
69	EMPTY	0.0296	1.7911
70	EMPTY	0.0292	1.7568
71	EMPTY	0.0292	1.7385
72	EMPTY	0.0279	1.6525
73	EMPTY	0.0278	1.6327
74	EMPTY	0.0268	1.5647
75	EMPTY	0.0281	1.6294
76	EMPTY	0.0276	1.5919
77	EMPTY	0.0258	1.4756
78	EMPTY	0.0264	1.4952
79	EMPTY	0.0246	1.3799
80	PAN020136	0.2472	2.4742
81	PAN050136	0.6104	3.7080
82	PAN070136	1.4084	78.7211
83	PAN080136	2.9801	54.2073
84	PAN090136	4.4983	1216.0853
85	PAN100136	0.6332	2.7089
86	PAN105136	1.1322	23.6200
87	PAN110136	2.6535	43.2596
88	PAN115136	1.8722	21.6600
89	PAN120136	0.1266	1.6050
90	PAN125136	0.1861	1.5069
91	PAN130136	0.8178	8.4431
92	PAN120048	3.6743	15.6511
93	PAN130048	1.6129	18.2168
94	PAN120224	0.1983	1.0908
95	PAN130224	0.9414	6.0319
96	PAN120312	0.0580	0.3292
97	PAN130312	3.0212	27.8403
98	PAB000136	0.0925	0.2296
99	PAB100136	0.1090	0.2876
100	PAB125136	0.1410	0.3862

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1246	0.3116
102	PRV000001	0.0122	0.0627
103	PSR000001	0.1661	0.4784
104	PFM000001	0.0732	0.1846
105	PAN000136	0.1191	0.1093
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.2500
108	EMPTY	0.7166	9.1060
109	EMPTY	0.0001	1.9608
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	50.0000
112	VPW000001	0.0274	0.0138
113	VPW000002	0.0273	0.0117
114	VPW000003	0.0898	0.0311
115	VPW000004	0.0078	0.0038
116	VPW000005	0.0664	0.0243
117	VPW000006	0.0235	0.0081
118	IPW000001	1.6788	0.1592
119	IPW000002	0.6621	0.0268
120	IPW000003	0.0388	0.0015
121	IPW000004	0.2149	0.0295
122	IPW000005	0.8887	0.1845
123	IPW000006	0.4296	0.0861
124	EMPTY	0.0001	0.5319
125	EMPTY	0.0004	3.0769
126	EMPTY	0.0001	0.6711
127	EMPTY	0.0002	1.1834
128	IHT000001	0.0430	0.0175
129	IHT000002	0.0000	0.0000
130	IHT000003	0.0000	0.0000
131	IHT000004	0.0586	0.0234
132	IHT000005	0.0977	0.0393
133	IHT000006	0.0547	0.0226
134	IHT000007	0.0899	0.0356
135	IHT000008	0.0703	0.0282
136	IHT000009	0.1015	0.0407
137	IHT000010	0.0352	0.0432
138	IHT000011	0.0625	0.0250
139	IHT000012	0.0078	0.0032
140	IHT000013	0.1016	0.0568
141	IHT000014	0.0117	0.0047
142	IHT000015	0.0429	0.0233
143	IHT000016	0.1640	0.0956
144	IHT000017	0.3125	0.1519
145	IHT000018	0.0938	0.0452
146	IHT000019	0.0743	0.0369
147	IHT000020	0.0469	0.0226
148	IHT000021	0.0157	0.9278
149	IHT000022	0.0547	0.0307
150	IHT000023	0.0234	0.0116
151	IHT000024	0.0196	0.0117
152	IHT000025	0.0039	0.0019
153	IHT000026	0.0000	0.0000
154	IHT000027	0.0000	0.0000
155	IHT000028	0.1797	0.1016

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1016	0.0501
157	IHT000030	0.1094	0.0529
158	IHT000031	0.2070	0.1017
159	IHT000032	0.1992	0.0966
160	IHT000033	0.2187	0.1061
161	IHT000034	0.1211	0.0668
162	IHT000035	0.0625	0.0262
163	IHT000036	0.0196	0.0109

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Velocity 1 = 14.0463 (ft/sec) (+/- 1.8649 %)

Velocity 2 = 13.4154 (ft/sec) (+/- 1.7033 %)

Pressure drop = 2.1660 (psi)

Tsat in = 267.9461 (deg F) Tsat out = 264.6200 (deg F)

Phi inner = 376.0246 (kBtu/hr-ft2) (+/- 1.2156 %)

Phi outer = 376.4222 (kBtu/hr-ft2) (+/- 1.2308 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.9758	83.6114	83.3191	1.5951e-01	1.9001e+00
1	TRF000002	83.3145	83.7360	83.5337	1.3437e-01	1.9001e+00
2	TFM000001	87.2295	87.9633	87.5800	1.8313e-01	1.9002e+00
3	TIN000001	86.8915	87.4188	87.1005	1.3029e-01	1.9002e+00
4	TRV000001	88.6904	89.4239	89.1072	1.8840e-01	1.9002e+00
5	TSR000001	163.0632	167.3972	165.6787	1.1710e+00	1.9062e+00
6	TAO020136	143.1640	148.0936	145.7311	1.2836e+00	1.9039e+00
7	TAO050136	199.4032	201.2269	200.2166	4.0587e-01	1.9114e+00
8	TAO070136	195.0604	197.6856	196.4279	4.6128e-01	1.9107e+00
9	TAO080136	236.3381	237.8379	237.0222	3.0477e-01	1.9187e+00
10	TAO090136	246.1121	247.3270	246.6564	3.0961e-01	1.9209e+00
11	TAO100136	236.9102	238.8846	237.8718	4.2741e-01	1.9189e+00
12	TAO105136	243.1895	244.9749	244.1467	3.7419e-01	1.9203e+00
13	TAO110136	89.8456	90.5762	90.2151	1.7655e-01	1.9003e+00
14	TAO115136	245.0204	246.8020	245.8857	3.9475e-01	1.9207e+00
15	TAO120136	270.0459	271.0624	270.5981	2.3276e-01	1.9269e+00
16	TAO125136	251.1138	259.2007	254.4776	1.6340e+00	1.9228e+00
17	TAO130136	260.1287	261.1400	260.6457	2.3031e-01	1.9243e+00
18	TAO120048	111.0569	112.2934	111.6483	3.0712e-01	1.9012e+00
19	TAO130048	279.2422	280.7982	279.8302	3.0681e-01	1.9294e+00
20	TAO120224	267.2130	268.4145	267.7730	2.8413e-01	1.9262e+00
21	TAO130224	251.0751	252.2813	251.7340	2.9320e-01	1.9221e+00
22	TAO120312	267.1887	268.3933	267.8800	2.7761e-01	1.9262e+00
23	TAO130312	275.4425	277.0035	276.1168	3.0979e-01	1.9284e+00
24	TRT020000	199.7970	201.2480	200.6546	3.1215e-01	1.9115e+00
25	TRT070000	238.9469	240.1783	239.4910	2.9745e-01	1.9193e+00
26	TRT100000	268.4941	269.8763	269.2851	2.6817e-01	1.9266e+00
27	TRT120000	458.4318	458.7741	458.5741	8.9129e-02	1.9991e+00
28	TRT125000	90.5648	91.2968	90.9518	2.2033e-01	1.9003e+00
29	TRT130000	286.2914	287.3873	286.9141	2.5204e-01	1.9314e+00
30	EMPTY	39.3761	40.0646	39.8352	2.0211e-01	1.9011e+00
31	TAF050136	133.8344	136.2539	135.3736	5.7572e-01	1.9029e+00
32	TAF070136	154.1559	156.9307	155.2554	5.1319e-01	1.9049e+00
33	TAF080136	244.5919	249.6097	246.9303	1.0845e+00	1.9210e+00
34	TAF090136	90.1569	91.3090	90.6783	2.7696e-01	1.9003e+00
35	TAF100136	182.8866	184.8427	183.7494	4.1280e-01	1.9087e+00
36	TAF105136	187.3309	189.0678	188.3361	3.6035e-01	1.9094e+00
37	TAF110136	194.1745	195.5275	194.8025	2.7979e-01	1.9105e+00
38	TAF115136	199.9445	201.4849	200.9744	3.4958e-01	1.9115e+00
39	TAF120136	242.3652	245.6305	243.9866	7.9762e-01	1.9203e+00
40	TAF125136	210.4936	212.0163	211.1895	3.3558e-01	1.9134e+00
41	TAF130136	214.5237	215.4779	214.9150	2.2250e-01	1.9141e+00
42	TAF120048	215.7989	217.2400	216.5157	3.2360e-01	1.9144e+00
43	TAF130048	228.9557	230.0914	229.4462	2.4533e-01	1.9171e+00
44	TAF120224	200.6712	202.5013	201.4672	3.7228e-01	1.9116e+00
45	TAF130224	208.6979	209.7593	209.2173	2.3533e-01	1.9130e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	2.1368e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8811	1.2266e-01	1.9011e+00
48	TAI130048	260.2006	262.7065	261.4243	5.6584e-01	1.9245e+00
49	TAI130136	264.9495	266.4280	265.8084	3.1313e-01	1.9257e+00
50	TAI130224	273.1031	274.4894	273.7966	3.2936e-01	1.9278e+00
51	TAI130312	256.8399	258.5165	257.4494	3.8028e-01	1.9235e+00
52	TRR130000	144.0803	147.4793	145.9149	7.1614e-01	1.9039e+00
53	TSI000001	59.4121	60.3784	59.9337	1.9532e-01	1.9001e+00
54	TSI000002	71.9969	75.4943	74.2471	7.0196e-01	1.9000e+00
55	TSO000001	56.2365	57.1028	56.7195	2.1446e-01	1.9001e+00
56	TSO000002	77.3577	78.2054	77.8346	2.0222e-01	1.9000e+00
57	TAF020136	102.1096	104.8223	103.5731	6.7184e-01	1.9008e+00
58	TAF120312	210.0588	212.2638	211.0656	4.3794e-01	1.9134e+00
59	TAF130312	231.3796	233.3613	232.4312	3.9400e-01	1.9177e+00
60	EMPTY	3.8232	3.8428	3.8322	4.6647e-03	0.0000e+00
61	EMPTY	3.8086	3.8232	3.8166	3.3829e-03	0.0000e+00
62	EMPTY	3.7939	3.8086	3.8010	3.4400e-03	0.0000e+00
63	EMPTY	3.7891	3.7988	3.7942	2.6853e-03	0.0000e+00
64	EMPTY	1.8311	1.8359	1.8343	2.3365e-03	0.0000e+00
65	EMPTY	1.8457	1.8506	1.8490	2.3008e-03	0.0000e+00
66	EMPTY	1.8555	1.8604	1.8562	1.7115e-03	0.0000e+00
67	EMPTY	1.8652	1.8750	1.8695	2.1249e-03	0.0000e+00
68	EMPTY	1.8701	1.8799	1.8749	1.5566e-03	0.0000e+00
69	EMPTY	1.8848	1.8896	1.8854	1.6028e-03	0.0000e+00
70	EMPTY	1.8896	1.8994	1.8938	1.9754e-03	0.0000e+00
71	EMPTY	1.9043	1.9141	1.9093	1.2041e-03	0.0000e+00
72	EMPTY	1.9141	1.9189	1.9155	2.2603e-03	0.0000e+00
73	EMPTY	1.9238	1.9287	1.9284	1.1714e-03	0.0000e+00
74	EMPTY	1.9336	1.9385	1.9370	2.2603e-03	0.0000e+00
75	EMPTY	1.9434	1.9482	1.9480	9.6655e-04	0.0000e+00
76	EMPTY	1.9531	1.9580	1.9539	1.8082e-03	0.0000e+00
77	EMPTY	1.9629	1.9678	1.9672	1.6028e-03	0.0000e+00
78	EMPTY	1.9775	1.9922	1.9827	1.8216e-03	0.0000e+00
79	EMPTY	1.9971	2.0020	1.9977	1.6028e-03	0.0000e+00
80	PAN020136	-10.2908	9.3168	1.7194	3.6373e+00	8.7001e-01
81	PAN050136	-3.7716	10.5717	3.3726	3.5272e+00	1.6800e+00
82	PAN070136	-24.6544	-3.1395	-18.4410	6.1210e+00	8.7122e-01
83	PAN080136	-6.3264	49.1393	21.9085	1.0941e+01	8.7172e-01
84	PAN090136	-13.0990	16.7319	2.4345	6.0043e+00	8.7002e-01
85	PAN100136	6.7301	25.2696	14.7792	4.5075e+00	8.7078e-01
86	PAN105136	-4.5739	9.0827	3.6597	3.1512e+00	8.7005e-01
87	PAN110136	0.1784	18.1074	6.2575	3.6335e+00	8.7014e-01
88	PAN115136	1.5193	16.7018	8.2240	3.0180e+00	8.7024e-01
89	PAN120136	0.9574	8.2817	4.5173	1.7498e+00	8.7007e-01
90	PAN125136	4.7251	14.1093	8.9320	1.7611e+00	8.7029e-01
91	PAN130136	1.3258	5.3693	2.6563	8.4988e-01	8.7003e-01
92	PAN120048	9.6381	17.4964	11.7927	1.4933e+00	8.7050e-01
93	PAN130048	2.3888	4.8302	3.3470	4.6629e-01	8.7004e-01
94	PAN120224	7.6999	17.9996	12.2455	2.1918e+00	8.7054e-01
95	PAN130224	5.7208	9.3829	7.4939	7.6006e-01	8.7020e-01
96	PAN120312	7.9421	14.5034	10.7650	1.7417e+00	8.7042e-01
97	PAN130312	0.0823	3.1340	1.8111	7.4156e-01	8.7001e-01
98	PAB000136	39.9992	40.7774	40.3892	1.9338e-01	5.8872e-01
99	PAB100136	38.9948	39.4525	39.2474	1.0473e-01	5.8824e-01
100	PAB125136	38.1197	38.3486	38.1930	5.7755e-02	5.8781e-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
BY APPLIED IMAGE, INC.

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4704	40.8132	40.2419	3.1912e-01	7.5672e-01
102	PRV000001	19.7186	19.9627	19.8406	3.4877e-02	7.5164e-01
103	PSR000001	37.0031	37.3693	37.1544	7.2155e-02	7.5573e-01
104	PFM000001	29.8391	30.6631	30.2419	1.6018e-01	5.0568e-01
105	PAN000136	49.9406	71.4555	59.9657	4.4720e+00	4.9223e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0061	2.1065e-03	0.0000e+00
108	EMPTY	-9.8535	-5.9717	-7.3329	9.7179e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0045	1.6624e-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	198.7042	199.2901	198.8994	1.3087e-01	1.4423e+00
113	VPW000002	232.9139	233.3046	233.0273	1.0507e-01	1.6158e+00
114	VPW000003	288.6381	289.2240	288.9504	1.2478e-01	1.9136e+00
115	VPW000004	204.4734	205.0593	204.7314	1.5505e-01	1.4714e+00
116	VPW000005	272.6600	273.6366	273.0898	2.0120e-01	1.8278e+00
117	VPW000006	290.6438	291.2297	290.8390	1.6269e-01	1.9239e+00
118	IPW000001	1039.3977	1049.1594	1044.6689	2.3084e+00	1.1564e+01
119	IPW000002	2492.5967	2502.3530	2498.3713	2.2287e+00	2.1335e+01
120	IPW000003	2513.5498	2519.3999	2517.0215	1.4363e+00	2.1471e+01
121	IPW000004	724.4309	729.3137	726.7846	1.7775e+00	6.0800e+00
122	IPW000005	483.5191	485.4720	484.4858	4.1251e-01	4.3185e+00
123	IPW000006	501.0142	502.4790	501.6388	3.6963e-01	4.4390e+00
124	EMPTY	-0.0244	-0.0098	-0.0188	3.9901e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0130	2.7213e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0151	3.1583e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0173	3.7186e-03	0.0000e+00
128	IHT000001	244.1481	247.6637	246.0466	7.7227e-01	4.7816e+00
129	IHT000002	251.5174	254.6424	253.0995	7.1599e-01	4.8183e+00
130	IHT000003	253.7936	256.7233	255.3679	7.7062e-01	4.8302e+00
131	IHT000004	248.7643	251.6940	250.2956	7.7961e-01	4.8036e+00
132	IHT000005	246.6496	249.3840	247.9971	6.9391e-01	4.7917e+00
133	IHT000006	240.5987	243.3331	242.0674	7.4997e-01	4.7613e+00
134	IHT000007	250.1352	253.0649	251.9866	7.3741e-01	4.8125e+00
135	IHT000008	247.5436	250.2779	249.2194	7.2339e-01	4.7980e+00
136	IHT000009	247.5323	250.4620	249.1963	7.5308e-01	4.7979e+00
137	IHT000010	79.6236	82.9440	81.2916	6.8596e-01	4.1798e+00
138	IHT000011	248.6666	251.5963	250.0378	6.2700e-01	4.8023e+00
139	IHT000012	244.3284	247.0628	245.6331	5.0754e-01	4.7795e+00
140	IHT000013	177.5391	180.0781	178.7109	5.0068e-01	4.4726e+00
141	IHT000014	245.3351	247.4835	246.3623	4.5985e-01	4.7832e+00
142	IHT000015	183.2933	185.6370	184.3089	4.9599e-01	4.4952e+00
143	IHT000016	170.1622	172.5060	171.2755	4.9795e-01	4.4434e+00
144	IHT000017	203.7034	207.2191	205.5276	6.2091e-01	4.5863e+00
145	IHT000018	205.9871	209.1121	207.3857	6.7469e-01	4.5947e+00
146	IHT000019	199.9624	202.6968	201.1852	5.8635e-01	4.5670e+00
147	IHT000020	206.0021	208.3458	207.3419	5.6910e-01	4.5945e+00
148	IHT000021	-3.0086	-0.0789	-1.3484	7.0061e-01	4.1000e+00
149	IHT000022	177.4301	179.3833	178.3637	5.1944e-01	4.4712e+00
150	IHT000023	201.6301	203.7786	202.7276	5.5508e-01	4.5738e+00
151	IHT000024	165.6663	168.0101	166.9828	5.4363e-01	4.4270e+00
152	IHT000025	200.2517	202.7907	201.5954	5.6996e-01	4.5688e+00
153	IHT000026	202.9823	205.7167	204.2675	5.9724e-01	4.5807e+00
154	IHT000027	173.0018	175.5409	174.3651	5.7248e-01	4.4554e+00
155	IHT000028	175.3192	178.2489	176.7802	7.1598e-01	4.4649e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.2996	204.2293	202.8192	7.2145e-01	4.5742e+00
157	IHT000030	205.0594	208.5750	206.6962	7.6095e-01	4.5915e+00
158	IHT000031	201.7353	205.4462	203.4541	7.6819e-01	4.5770e+00
159	IHT000032	204.5936	208.3045	206.1562	7.5696e-01	4.5891e+00
160	IHT000033	204.4208	208.1318	206.0615	7.6106e-01	4.5887e+00
161	IHT000034	180.0706	183.0003	181.3480	6.4260e-01	4.4832e+00
162	IHT000035	237.3949	240.1292	238.7229	5.9057e-01	4.7444e+00
163	IHT000036	177.7607	180.1044	179.1630	6.0835e-01	4.4744e+00

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sum2

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Velocity 1 = 14.0369 (ft/sec) (+/- 1.8654 %)

Velocity 2 = 13.4145 (ft/sec) (+/- 1.7033 %)

Pressure drop = 2.0922 (psi)

Tsats in = 267.4983 (deg F) Tsats out = 264.2878 (deg F)

Phi inner = 376.2814 (kBtu/hr-ft2) (+/- 1.2156 %)

Phi outer = 374.8659 (kBtu/hr-ft2) (+/- 1.2312 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.9758	83.6114	83.3106	1.9184e-01	1.9001e+00
1	TRF000002	83.3145	83.7360	83.4831	1.2043e-01	1.9001e+00
2	TFM000001	86.3910	87.1264	86.7748	1.5252e-01	1.9002e+00
3	TIN000001	85.9440	86.5768	86.2204	1.4268e-01	1.9002e+00
4	TRV000001	88.0636	88.7974	88.3508	1.9485e-01	1.9002e+00
5	TSR000001	168.5749	170.6382	169.8266	5.4350e-01	1.9067e+00
6	TAO020136	145.1785	147.5912	146.3269	6.1547e-01	1.9039e+00
7	TAO050136	198.4434	200.1730	199.2302	3.9941e-01	1.9112e+00
8	TAO070136	194.5740	196.6169	195.7161	5.1574e-01	1.9106e+00
9	TAO080136	235.5869	237.0893	236.3666	3.7609e-01	1.9186e+00
10	TAO090136	245.2703	246.8607	246.0806	3.1944e-01	1.9208e+00
11	TAO100136	236.0636	238.6034	237.4205	5.2329e-01	1.9188e+00
12	TAO105136	242.5323	244.0364	243.3800	3.6164e-01	1.9201e+00
13	TAO110136	90.1555	90.8885	90.6423	1.5747e-01	1.9003e+00
14	TAO115136	244.1771	246.2408	245.2707	4.1928e-01	1.9206e+00
15	TAO120136	269.1207	270.0464	269.6557	2.3873e-01	1.9267e+00
16	TAO125136	249.8099	258.4588	253.9790	1.6289e+00	1.9227e+00
17	TAO130136	259.6724	260.4981	260.0559	1.8940e-01	1.9242e+00
18	TAO120048	113.0121	114.3488	113.6273	3.1133e-01	1.9013e+00
19	TAO130048	278.5099	279.8831	279.1932	2.9108e-01	1.9293e+00
20	TAO120224	266.4721	267.4911	267.0335	2.4977e-01	1.9260e+00
21	TAO130224	250.2445	251.3540	250.8089	2.7807e-01	1.9219e+00
22	TAO120312	266.1708	267.6530	266.9356	3.7374e-01	1.9260e+00
23	TAO130312	275.0741	275.9035	275.4925	2.1279e-01	1.9282e+00
24	TRT020000	199.3132	200.7652	200.0198	3.4222e-01	1.9114e+00
25	TRT070000	238.2842	239.5155	238.8278	2.9330e-01	1.9191e+00
26	TRT100000	268.1254	269.2329	268.8023	2.2182e-01	1.9264e+00
27	TRT120000	458.3465	458.7741	458.5502	1.0211e-01	1.9991e+00
28	TRT125000	92.1242	92.9593	92.5735	1.7437e-01	1.9003e+00
29	TRT130000	286.0172	287.1144	286.5089	2.6167e-01	1.9313e+00
30	EMPTY	39.3761	40.0646	39.7847	2.0366e-01	1.9011e+00
31	TAF050136	132.9276	135.7516	134.5433	5.6687e-01	1.9028e+00
32	TAF070136	152.9640	155.3428	154.1969	5.3684e-01	1.9048e+00
33	TAF080136	244.4058	247.7536	246.0490	8.5923e-01	1.9208e+00
34	TAF090136	90.4701	91.7271	91.0338	2.6656e-01	1.9003e+00
35	TAF100136	182.2012	183.9627	183.0296	3.9799e-01	1.9086e+00
36	TAF105136	186.8445	188.2010	187.4595	3.4377e-01	1.9093e+00
37	TAF110136	193.4005	194.8512	194.0068	3.0060e-01	1.9103e+00
38	TAF115136	199.5578	201.0047	200.2891	3.7755e-01	1.9114e+00
39	TAF120136	241.2424	244.4193	242.9709	7.9894e-01	1.9201e+00
40	TAF125136	209.7330	211.0643	210.3757	3.4321e-01	1.9132e+00
41	TAF130136	213.6646	214.5253	214.0187	2.3168e-01	1.9139e+00
42	TAF120048	215.2220	216.5675	215.8124	3.5581e-01	1.9143e+00
43	TAF130048	228.0100	229.1452	228.6363	2.8178e-01	1.9169e+00
44	TAF120224	199.5137	201.1535	200.5733	3.3877e-01	1.9115e+00
45	TAF130224	207.7336	208.8913	208.4031	2.6894e-01	1.9129e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	2.4649e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8122	1.4844e-01	1.9011e+00
48	TAI130048	260.2011	262.2429	261.2832	5.1065e-01	1.9245e+00
49	TAI130136	264.6727	265.9657	265.4168	2.5635e-01	1.9256e+00
50	TAI130224	272.8260	274.3047	273.7154	3.3760e-01	1.9278e+00
51	TAI130312	256.2811	258.1449	257.1812	4.4537e-01	1.9235e+00
52	TRR130000	141.7755	143.6804	142.8611	3.9170e-01	1.9036e+00
53	TSI000001	59.3041	60.3784	59.7665	2.3399e-01	1.9001e+00
54	TSI000002	73.4818	74.8597	74.1836	3.3515e-01	1.9000e+00
55	TSO000001	56.4537	57.4269	56.8452	2.0834e-01	1.9001e+00
56	TSO000002	77.5690	78.4171	77.9828	2.2071e-01	1.9000e+00
57	TAF020136	101.5878	103.9885	102.8677	5.8261e-01	1.9007e+00
58	TAF120312	209.5795	211.4014	210.4787	4.1872e-01	1.9132e+00
59	TAF130312	230.9074	233.1736	231.8160	4.3787e-01	1.9176e+00
60	EMPTY	3.8135	3.8281	3.8184	3.6911e-03	0.0000e+00
61	EMPTY	3.7988	3.8086	3.8017	2.8058e-03	0.0000e+00
62	EMPTY	3.7842	3.7939	3.7864	2.6488e-03	0.0000e+00
63	EMPTY	3.7744	3.7842	3.7799	2.7267e-03	0.0000e+00
64	EMPTY	1.8213	1.8311	1.8265	1.5314e-03	0.0000e+00
65	EMPTY	1.8311	1.8457	1.8405	1.8216e-03	0.0000e+00
66	EMPTY	1.8408	1.8506	1.8499	1.9754e-03	0.0000e+00
67	EMPTY	1.8604	1.8652	1.8604	6.9053e-04	0.0000e+00
68	EMPTY	1.8652	1.8701	1.8664	2.1065e-03	0.0000e+00
69	EMPTY	1.8750	1.8799	1.8791	1.8082e-03	0.0000e+00
70	EMPTY	1.8848	1.8896	1.8858	2.0432e-03	0.0000e+00
71	EMPTY	1.8994	1.9043	1.9019	2.4662e-03	0.0000e+00
72	EMPTY	1.8994	1.9141	1.9090	1.6972e-03	0.0000e+00
73	EMPTY	1.9189	1.9238	1.9197	1.8082e-03	0.0000e+00
74	EMPTY	1.9238	1.9336	1.9290	1.5314e-03	0.0000e+00
75	EMPTY	1.9336	1.9531	1.9395	2.7902e-03	0.0000e+00
76	EMPTY	1.9434	1.9482	1.9478	1.4797e-03	0.0000e+00
77	EMPTY	1.9580	1.9629	1.9588	1.8082e-03	0.0000e+00
78	EMPTY	1.9727	1.9775	1.9744	2.3675e-03	0.0000e+00
79	EMPTY	1.9873	1.9922	1.9919	1.1714e-03	0.0000e+00
80	PAN020136	-3.5006	11.7582	2.8882	3.4804e+00	8.7003e-01
81	PAN050136	-7.7389	9.5036	2.1366	3.2610e+00	1.6800e+00
82	PAN070136	-24.6544	-0.9270	-14.6843	7.6566e+00	8.7077e-01
83	PAN080136	-8.4626	37.3137	13.7801	1.1657e+01	8.7068e-01
84	PAN090136	-13.1753	17.8001	2.3322	7.0761e+00	8.7002e-01
85	PAN100136	9.3241	44.5719	16.4271	5.9966e+00	8.7097e-01
86	PAN105136	-2.5140	10.1508	3.4781	3.2081e+00	8.7004e-01
87	PAN110136	0.1021	15.4371	8.2121	3.2813e+00	8.7024e-01
88	PAN115136	0.2223	14.3367	6.7058	2.5685e+00	8.7016e-01
89	PAN120136	-2.1706	6.1454	2.7320	1.5898e+00	8.7003e-01
90	PAN125136	6.7088	13.8804	10.2015	1.5859e+00	8.7037e-01
91	PAN130136	1.2495	5.9797	2.7250	1.1392e-01	8.7003e-01
92	PAN120048	9.3330	13.1477	10.6345	7.4965e-01	8.7011e-01
93	PAN130048	2.3888	4.2961	3.2753	5.0535e-01	8.7004e-01
94	PAN120224	6.7081	13.8034	10.4236	1.7522e+00	8.7039e-01
95	PAN130224	5.4919	10.7562	7.8631	8.9822e-01	8.7022e-01
96	PAN120312	7.3317	15.4952	10.7772	1.9808e+00	8.7042e-01
97	PAN130312	-0.7570	3.0577	1.5349	8.9757e-01	8.7001e-01
98	PAB000136	39.7245	40.5485	40.0871	1.8353e-01	5.8859e-01
99	PAB100136	38.7201	39.3610	39.0360	1.3346e-01	5.8815e-01
100	PAB125136	37.8451	38.1655	37.9797	5.6566e-02	5.8772e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2263	40.4470	39.8391	3.6869e-01	7.5658e-01
102	PRV000001	19.3524	19.4744	19.4232	6.0861e-02	7.5157e-01
103	PSR000001	36.8810	37.0031	36.9323	6.0861e-02	7.5566e-01
104	PFM000001	29.8391	30.5715	30.2053	2.0762e-01	5.0567e-01
105	PAN000136	48.1096	73.2866	57.9240	5.3752e+00	4.9221e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0064	2.3008e-03	0.0000e+00
108	EMPTY	-10.0000	-6.2451	-8.1308	1.2266e+00	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	0.0098	0.0003	1.5314e-03	0.0000e+00
112	VPW000001	198.7042	199.2901	199.0205	1.4167e-01	1.4429e+00
113	VPW000002	232.9139	233.3046	233.0234	1.0559e-01	1.6158e+00
114	VPW000003	288.6381	289.2240	289.0051	1.1599e-01	1.9139e+00
115	VPW000004	204.4734	204.8640	204.6689	1.1838e-01	1.4711e+00
116	VPW000005	272.8553	273.2459	273.1640	1.1897e-01	1.8282e+00
117	VPW000006	290.6438	291.2297	290.9015	1.3917e-01	1.9242e+00
118	IPW000001	1047.2072	1053.0642	1050.0188	1.4309e+00	1.1594e+01
119	IPW000002	2471.1328	2478.9377	2475.1135	1.8889e+00	2.1165e+01
120	IPW000003	2517.4500	2523.2998	2520.0237	1.3895e+00	2.1493e+01
121	IPW000004	727.3606	729.3137	728.1029	4.4381e-01	6.0898e+00
122	IPW000005	482.0544	483.5191	482.8358	3.1192e-01	4.3069e+00
123	IPW000006	499.5493	500.5259	500.1252	3.0708e-01	4.4284e+00
124	EMPTY	-0.0244	-0.0098	-0.0196	3.7551e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0125	2.8179e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0148	3.1133e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.4400e-03	0.0000e+00
128	IHT000001	245.1247	247.2731	246.2927	4.4379e-01	4.7829e+00
129	IHT000002	252.4940	254.0565	253.3847	4.3968e-01	4.8198e+00
130	IHT000003	254.7701	256.7233	255.7624	4.7325e-01	4.8323e+00
131	IHT000004	249.7408	251.6940	250.6745	4.6737e-01	4.8056e+00
132	IHT000005	247.6262	249.5793	248.3917	4.4440e-01	4.7937e+00
133	IHT000006	241.5753	243.3331	242.4072	4.0971e-01	4.7630e+00
134	IHT000007	251.5024	253.2602	252.4671	3.8945e-01	4.8150e+00
135	IHT000008	248.7154	250.2779	249.5241	3.9461e-01	4.7996e+00
136	IHT000009	248.3135	250.2667	249.4072	4.1385e-01	4.7990e+00
137	IHT000010	80.0143	82.3580	81.2291	5.1794e-01	4.1797e+00
138	IHT000011	248.8619	251.2057	250.0378	4.9989e-01	4.8023e+00
139	IHT000012	244.5237	246.6722	245.6643	5.5574e-01	4.7797e+00
140	IHT000013	177.5391	179.8828	178.7227	5.4449e-01	4.4726e+00
141	IHT000014	245.5304	247.8741	246.4990	5.1139e-01	4.7839e+00
142	IHT000015	183.0979	185.6370	184.3480	4.9599e-01	4.4954e+00
143	IHT000016	170.3576	172.5060	171.4747	4.8172e-01	4.4441e+00
144	IHT000017	204.8753	207.0237	205.8089	5.8299e-01	4.5876e+00
145	IHT000018	206.5730	208.5261	207.4560	5.3122e-01	4.5950e+00
146	IHT000019	199.1812	201.9156	200.7437	6.3626e-01	4.5651e+00
147	IHT000020	205.2208	208.1505	206.8653	6.0630e-01	4.5923e+00
148	IHT000021	-3.2039	-0.2742	-1.8718	7.1321e-01	4.1000e+00
149	IHT000022	177.0395	178.9926	177.9458	4.9875e-01	4.4695e+00
150	IHT000023	201.2395	203.3879	202.2589	5.4859e-01	4.5717e+00
151	IHT000024	165.6663	167.6195	166.5609	5.1310e-01	4.4254e+00
152	IHT000025	200.2517	202.4001	201.2517	5.4196e-01	4.5673e+00
153	IHT000026	202.9823	204.9354	203.9628	5.1067e-01	4.5793e+00
154	IHT000027	173.1971	175.5409	174.2284	5.7864e-01	4.4548e+00
155	IHT000028	175.1239	178.8349	176.9248	6.7461e-01	4.4654e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.2996	204.8152	202.8661	6.4051e-01	4.5744e+00
157	IHT000030	205.4500	208.7703	206.7392	6.2015e-01	4.5917e+00
158	IHT000031	202.1259	205.4462	203.5752	5.9984e-01	4.5776e+00
159	IHT000032	204.7889	207.9139	206.2577	5.9613e-01	4.5896e+00
160	IHT000033	204.6161	207.9365	206.1865	6.0356e-01	4.5893e+00
161	IHT000034	180.4612	183.0003	181.4574	5.1788e-01	4.4836e+00
162	IHT000035	237.7855	240.5199	238.9417	5.5642e-01	4.7455e+00
163	IHT000036	178.3466	180.8857	179.3271	6.0809e-01	4.4750e+00

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Velocity 1 = 0.009400 (ft/sec)

Velocity 2 = 0.000899 (ft/sec)

Pressure Drop = 0.073800 (psi)

Tsat in = 0.447815 (deg F) Tsat out = 0.332184 (deg F)

Phi inner = 0.256805 (kBtu/hr-ft2) Phi outer = 1.556305 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF0000001	0.0085	0.0102
1	TRF0000002	0.0506	0.0606
2	TFM0000001	0.8052	0.9194
3	TIN0000001	0.8801	1.0104
4	TRV0000001	0.7564	0.8489
5	TSR0000001	4.1479	2.5036
6	TAO020136	0.5958	0.4088
7	TAO050136	0.9864	0.4927
8	TAO070136	0.7118	0.3624
9	TAO080136	0.6556	0.2766
10	TAO090136	0.5758	0.2334
11	TAO100136	0.4513	0.1897
12	TAO105136	0.7667	0.3140
13	TAO110136	0.4272	0.4735
14	TAO115136	0.6150	0.2501
15	TAO120136	0.9424	0.3483
16	TAO125136	0.4986	0.1959
17	TAO130136	0.5898	0.2263
18	TAO120048	1.9790	1.7725
19	TAO130048	0.6370	0.2276
20	TAO120224	0.7395	0.2762
21	TAO130224	0.9251	0.3675
22	TAO120312	0.9444	0.3525
23	TAO130312	0.6243	0.2261
24	TRT020000	0.6348	0.3164
25	TRT070000	0.6632	0.2769
26	TRT100000	0.4828	0.1793
27	TRT120000	0.0239	0.0052
28	TRT125000	1.6217	1.7830
29	TRT130000	0.4052	0.1412
30	EMPTY	0.0505	0.1268
31	TAF050136	0.8303	0.6133
32	TAF070136	1.0585	0.6818
33	TAF080136	0.8813	0.3569
34	TAF090136	0.3555	0.3920
35	TAF100136	0.7198	0.3917
36	TAF105136	0.8766	0.4654
37	TAF110136	0.7957	0.4085
38	TAF115136	0.6853	0.3410
39	TAF120136	1.0157	0.4163
40	TAF125136	0.8138	0.3853
41	TAF130136	0.8963	0.4170
42	TAF120048	0.7033	0.3248
43	TAF130048	0.8099	0.3530
44	TAF120224	0.8939	0.4437
45	TAF130224	0.8142	0.3892

#	Name	Abs Diff	%Diff
46	EMPTY	0.0000	0.0000
47	EMPTY	0.0689	0.1728
48	TAI130048	0.1411	0.0540
49	TAI130136	0.3916	0.1473
50	TAI130224	0.0812	0.0297
51	TAI130312	0.2682	0.1042
52	TRR130000	3.0538	2.0929
53	TSI000001	0.1672	0.2790
54	TSI000002	0.0635	0.0855
55	TSO000001	0.1257	0.2216
56	TSO000002	0.1482	0.1904
57	TAF020136	0.7054	0.6811
58	TAF120312	0.5869	0.2781
59	TAF130312	0.6152	0.2647
60	EMPTY	0.0138	0.3601
61	EMPTY	0.0149	0.3904
62	EMPTY	0.0146	0.3841
63	EMPTY	0.0143	0.3769
64	EMPTY	0.0078	0.4252
65	EMPTY	0.0085	0.4597
66	EMPTY	0.0063	0.3394
67	EMPTY	0.0091	0.4868
68	EMPTY	0.0085	0.4534
69	EMPTY	0.0063	0.3342
70	EMPTY	0.0080	0.4224
71	EMPTY	0.0074	0.3876
72	EMPTY	0.0065	0.3393
73	EMPTY	0.0087	0.4512
74	EMPTY	0.0080	0.4130
75	EMPTY	0.0085	0.4363
76	EMPTY	0.0061	0.3122
77	EMPTY	0.0084	0.4270
78	EMPTY	0.0083	0.4186
79	EMPTY	0.0058	0.2903
80	PAN020136	1.1688	67.9772
81	PAN050136	1.2360	36.6483
82	PAN070136	3.7567	20.3715
83	PAN080136	8.1284	37.1016
84	PAN090136	0.1023	4.2021
85	PAN100136	1.6479	11.1501
86	PAN105136	0.1816	4.9622
87	PAN110136	1.9546	31.2361
88	PAN115136	1.5182	18.4606
89	PAN120136	1.7853	39.5214
90	PAN125136	1.2695	14.2129
91	PAN130136	0.0687	2.5863
92	PAN120048	1.1582	9.8213
93	PAN130048	0.0717	2.1422
94	PAN120224	1.8219	14.8781
95	PAN130224	0.3692	4.9267
96	PAN120312	0.0122	0.1133
97	PAN130312	0.2762	15.2504
98	PAB000136	0.3021	0.7480
99	PAB100136	0.2114	0.5386
100	PAB125136	0.2133	0.5585

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.4028	1.0010
102	PRV000001	0.4174	2.1038
103	PSR000001	0.2221	0.5978
104	PFM000001	0.0366	0.1210
105	PAN000136	2.0417	3.4048
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0003	4.9180
108	EMPTY	0.7979	10.8811
109	EMPTY	0.0005	11.1111
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	200.0000
112	VPW000001	0.1211	0.0609
113	VPW000002	0.0039	0.0017
114	VPW000003	0.0547	0.0189
115	VPW000004	0.0625	0.0305
116	VPW000005	0.0742	0.0272
117	VPW000006	0.0625	0.0215
118	IPW000001	5.3499	0.5121
119	IPW000002	23.2578	0.9309
120	IPW000003	3.0022	0.1193
121	IPW000004	1.3183	0.1814
122	IPW000005	1.6500	0.3406
123	IPW000006	1.5136	0.3017
124	EMPTY	0.0008	4.2553
125	EMPTY	0.0005	3.8462
126	EMPTY	0.0003	1.9868
127	EMPTY	0.0005	2.8902
128	IHT000001	0.2461	0.1000
129	IHT000002	0.2852	0.1127
130	IHT000003	0.3945	0.1545
131	IHT000004	0.3789	0.1514
132	IHT000005	0.3946	0.1591
133	IHT000006	0.3398	0.1404
134	IHT000007	0.4805	0.1907
135	IHT000008	0.3047	0.1223
136	IHT000009	0.2109	0.0846
137	IHT000010	0.0625	0.0769
138	IHT000011	0.0000	0.0000
139	IHT000012	0.0312	0.0127
140	IHT000013	0.0118	0.0066
141	IHT000014	0.1367	0.0555
142	IHT000015	0.0391	0.0212
143	IHT000016	0.1992	0.1163
144	IHT000017	0.2813	0.1369
145	IHT000018	0.0703	0.0339
146	IHT000019	0.4415	0.2194
147	IHT000020	0.4766	0.2299
148	IHT000021	0.5234	38.8164
149	IHT000022	0.4179	0.2343
150	IHT000023	0.4687	0.2312
151	IHT000024	0.4219	0.2527
152	IHT000025	0.3437	0.1705
153	IHT000026	0.3047	0.1492
154	IHT000027	0.1367	0.0784
155	IHT000028	0.1446	0.0818

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0469	0.0231
157	IHT000030	0.0430	0.0208
158	IHT000031	0.1211	0.0595
159	IHT000032	0.1015	0.0492
160	IHT000033	0.1250	0.0607
161	IHT000034	0.1094	0.0603
162	IHT000035	0.2188	0.0917
163	IHT000036	0.1641	0.0916

Velocity 1 = 13.0557 (ft/sec) (+/- 1.9266 %)
Velocity 2 = 13.0307 (ft/sec) (+/- 1.7071 %)
Pressure drop = 1.6058 (psi)
Tsats in = 268.0435 (deg F) Tsats out = 265.5168 (deg F)
Phi inner = 372.0765 (kBtu/hr-ft2) (+/- 1.2166 %)
Phi outer = 373.8721 (kBtu/hr-ft2) (+/- 1.2312 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.7639	83.3996	83.1114	1.9029e-01	1.9001e+00
1	TRF000002	83.1037	83.5252	83.3271	1.5594e-01	1.9001e+00
2	TFM000001	86.3901	87.3351	86.8033	2.1162e-01	1.9002e+00
3	TIN000001	85.9438	86.5766	86.2707	1.4939e-01	1.9002e+00
4	TRV000001	87.9565	89.1096	88.4122	2.3044e-01	1.9002e+00
5	TSR000001	166.8052	170.2448	169.2087	8.9365e-01	1.9066e+00
6	TAO020136	132.4392	134.8751	133.5951	4.9382e-01	1.9027e+00
7	TAO050136	204.0973	205.4376	204.8110	3.2825e-01	1.9122e+00
8	TAO070136	201.4698	204.5664	203.2026	5.3233e-01	1.9119e+00
9	TAO080136	245.3010	246.5101	245.8921	2.9689e-01	1.9207e+00
10	TAO090136	257.5678	259.1474	258.2911	3.9007e-01	1.9237e+00
11	TAO100136	251.8904	253.9400	252.8018	5.2045e-01	1.9224e+00
12	TAO105136	257.6022	259.1851	258.4047	4.0180e-01	1.9238e+00
13	TAO110136	92.1251	92.9590	92.5561	1.5926e-01	1.9003e+00
14	TAO115136	260.1449	261.3536	260.8123	3.1572e-01	1.9244e+00
15	TAO120136	285.5907	286.7819	286.2778	2.6267e-01	1.9313e+00
16	TAO125136	267.1546	268.0788	267.6257	2.3405e-01	1.9261e+00
17	TAO130136	276.7963	278.0687	277.2489	2.2943e-01	1.9287e+00
18	TAO120048	114.9630	116.1960	115.7052	2.8146e-01	1.9014e+00
19	TAO130048	283.9018	285.0902	284.4522	2.4876e-01	1.9307e+00
20	TAO120224	282.3988	283.7749	283.1053	3.6074e-01	1.9304e+00
21	TAO130224	265.9885	267.3673	266.8322	3.2294e-01	1.9259e+00
22	TAO120312	270.4273	271.9053	271.1012	3.1084e-01	1.9271e+00
23	TAO130312	279.9339	280.7603	280.3326	2.3778e-01	1.9296e+00
24	TRT020000	203.4707	204.7257	204.1369	3.0160e-01	1.9121e+00
25	TRT070000	243.8684	245.8515	244.8986	4.8681e-01	1.9205e+00
26	TRT100000	269.8745	270.9815	270.4886	2.7282e-01	1.9269e+00
27	TRT120000	458.1755	458.6032	458.4065	1.1097e-01	1.9990e+00
28	TRT125000	93.7841	94.7231	94.1833	2.1526e-01	1.9004e+00
29	TRT130000	288.8439	290.2108	289.5315	3.0399e-01	1.9322e+00
30	EMPTY	39.3761	40.0646	39.7755	2.0110e-01	1.9011e+00
31	TAF050136	138.7651	141.2764	139.8360	5.0867e-01	1.9033e+00
32	TAF070136	160.5819	162.3586	161.4211	3.9341e-01	1.9056e+00
33	TAF080136	252.0187	254.5165	253.3173	6.9009e-01	1.9225e+00
34	TAF090136	92.8738	93.8139	93.3774	2.2396e-01	1.9004e+00
35	TAF100136	193.6078	194.7732	194.0763	2.7509e-01	1.9103e+00
36	TAF105136	198.4833	199.9233	199.2302	3.8480e-01	1.9112e+00
37	TAF110136	205.8103	207.2488	206.5449	3.1746e-01	1.9125e+00
38	TAF115136	212.5996	214.3171	213.2462	3.2859e-01	1.9138e+00
39	TAF120136	252.7901	254.5531	253.5535	3.2512e-01	1.9226e+00
40	TAF125136	223.8353	225.1570	224.5922	3.6633e-01	1.9160e+00
41	TAF130136	228.3790	229.7035	229.0513	3.1238e-01	1.9170e+00
42	TAF120048	219.1606	221.0769	220.3621	3.8525e-01	1.9152e+00
43	TAF130048	235.8475	237.2606	236.6439	3.6322e-01	1.9186e+00
44	TAF120224	212.6650	214.6723	213.6229	4.5995e-01	1.9138e+00
45	TAF130224	221.4767	222.5288	221.9913	2.0791e-01	1.9155e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1538	1.8251e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9683	1.1440e-01	1.9011e+00
48	TAI130048	267.6126	269.4614	268.5059	4.6297e-01	1.9264e+00
49	TAI130136	280.3975	281.8646	281.0783	3.4479e-01	1.9298e+00
50	TAI130224	276.8888	278.2723	277.7061	3.2852e-01	1.9288e+00
51	TAI130312	271.2232	272.9786	272.2050	3.6476e-01	1.9273e+00
52	TRR130000	142.2762	144.5802	143.4047	4.5615e-01	1.9036e+00
53	TSI000001	59.1966	60.2705	59.6283	2.0989e-01	1.9001e+00
54	TSI000002	74.9628	76.3400	75.6903	3.1659e-01	1.9000e+00
55	TSO000001	56.2371	57.1034	56.6161	1.9945e-01	1.9001e+00
56	TSO000002	78.3097	79.1572	78.8121	2.1793e-01	1.9001e+00
57	TAF020136	103.9888	106.1776	104.9090	5.2374e-01	1.9008e+00
58	TAF120312	213.6035	215.8999	214.8418	4.6841e-01	1.9141e+00
59	TAF130312	235.9035	237.5039	236.7070	3.7376e-01	1.9186e+00
60	EMPTY	3.9404	3.9551	3.9478	4.6532e-03	0.0000e+00
61	EMPTY	3.9258	3.9355	3.9310	2.8608e-03	0.0000e+00
62	EMPTY	3.9063	3.9160	3.9133	2.6396e-03	0.0000e+00
63	EMPTY	3.9014	3.9111	3.9060	1.5314e-03	0.0000e+00
64	EMPTY	1.8799	1.8848	1.8806	1.7115e-03	0.0000e+00
65	EMPTY	1.8945	1.8994	1.8948	1.1714e-03	0.0000e+00
66	EMPTY	1.8994	1.9092	1.9040	1.5314e-03	0.0000e+00
67	EMPTY	1.9141	1.9189	1.9142	6.9053e-04	0.0000e+00
68	EMPTY	1.9189	1.9238	1.9195	1.6028e-03	0.0000e+00
69	EMPTY	1.9189	1.9336	1.9305	2.9197e-03	0.0000e+00
70	EMPTY	1.9336	1.9385	1.9383	9.6655e-04	0.0000e+00
71	EMPTY	1.9482	1.9580	1.9532	1.2041e-03	0.0000e+00
72	EMPTY	1.9580	1.9727	1.9591	2.6635e-03	0.0000e+00
73	EMPTY	1.9678	1.9727	1.9722	1.4797e-03	0.0000e+00
74	EMPTY	1.9775	1.9824	1.9787	2.1065e-03	0.0000e+00
75	EMPTY	1.9873	1.9922	1.9897	2.4662e-03	0.0000e+00
76	EMPTY	1.9922	1.9971	1.9968	1.1714e-03	0.0000e+00
77	EMPTY	2.0068	2.0117	2.0082	2.2146e-03	0.0000e+00
78	EMPTY	2.0166	2.0264	2.0234	2.6100e-03	0.0000e+00
79	EMPTY	2.0361	2.0410	2.0400	1.9730e-03	0.0000e+00
80	PAN020136	-8.4597	7.5620	-0.2642	3.5976e+00	8.7000e-01
81	PAN050136	-8.0441	7.3673	-0.2621	4.1913e+00	1.6800e+00
82	PAN070136	-24.5781	6.7787	-3.9787	7.9175e+00	8.7006e-01
83	PAN080136	1.3793	39.1448	12.4144	8.4892e+00	8.7055e-01
84	PAN090136	-12.4886	10.3996	0.5683	4.2770e+00	8.7000e-01
85	PAN100136	7.8746	19.8527	13.2838	2.9686e+00	8.7063e-01
86	PAN105136	-2.7429	11.6004	3.2187	3.0265e+00	8.7004e-01
87	PAN110136	-1.6527	9.9440	4.2784	2.1739e+00	8.7007e-01
88	PAN115136	1.2141	7.6991	3.1108	1.2792e+00	8.7003e-01
89	PAN120136	1.3389	4.3144	2.4009	7.1601e-01	8.7002e-01
90	PAN125136	5.1829	6.7851	5.8573	3.6585e-01	8.7012e-01
91	PAN130136	2.3176	3.3094	2.8120	2.2028e-01	8.7003e-01
92	PAN120048	4.6790	6.9678	5.9852	4.6129e-01	8.7013e-01
93	PAN130048	8.4160	9.7893	9.1957	3.0334e-01	8.7030e-01
94	PAN120224	4.1904	8.9206	6.6898	1.0255e+00	8.7016e-01
95	PAN130224	3.9660	7.9333	5.5591	6.4215e-01	8.7011e-01
96	PAN120312	7.2554	11.1464	8.4868	5.9836e-01	8.7026e-01
97	PAN130312	5.0414	6.5672	5.7631	3.6450e-01	8.7012e-01
98	PAB000136	40.0908	40.8689	40.4551	1.9310e-01	5.8875e-01
99	PAB100136	39.1779	39.6814	39.3930	1.0309e-01	5.8830e-01
100	PAB125136	38.7148	38.8521	38.7743	3.9508e-02	5.8804e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.4704	40.6911	40.0686	3.5845e-01	7.5666e-01
102	PRV0000001	19.4744	19.5965	19.5892	2.9284e-02	7.5160e-01
103	PSR0000001	38.1017	38.2238	38.1456	5.9189e-02	7.5604e-01
104	PFM0000001	25.8108	26.5432	26.1038	1.6952e-01	5.0424e-01
105	PAN000136	35.2922	54.9760	44.4566	5.1711e+00	4.9213e+00
106	PFM0000002	25.8573	26.1929	26.0033	7.7249e-02	2.1030e-01
107	EMPTY	0.0049	0.0098	0.0053	1.3381e-03	0.0000e+00
108	EMPTY	-7.3877	-4.6436	-6.1488	4.4114e-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	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	198.8995	199.2901	199.1338	1.0440e-01	1.4435e+00
113	VPW0000002	232.9139	233.3046	233.1562	1.0106e-01	1.6165e+00
114	VPW0000003	288.8334	289.4193	289.1497	1.3606e-01	1.9147e+00
115	VPW0000004	204.6687	205.0593	204.7665	1.1334e-01	1.4716e+00
116	VPW0000005	272.6600	273.4413	273.1445	1.4890e-01	1.8281e+00
117	VPW0000006	290.6438	291.2297	290.9952	1.2478e-01	1.9247e+00
118	IPW0000001	1066.7306	1074.5399	1070.4008	2.3547e+00	1.1710e+01
119	IPW0000002	2434.0586	2455.5225	2439.5225	6.9297e+00	2.0905e+01
120	IPW0000003	2482.3499	2494.0498	2487.7710	2.5921e+00	2.1257e+01
121	IPW0000004	731.7551	733.7083	732.3021	6.2109e-01	6.1211e+00
122	IPW0000005	482.0544	484.0073	482.9920	5.2045e-01	4.3080e+00
123	IPW0000006	496.1313	499.0610	497.2052	8.7680e-01	4.4078e+00
124	EMPTY	-0.0293	-0.0098	-0.0184	4.0144e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0132	2.2603e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0157	3.3146e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0174	3.4400e-03	0.0000e+00
128	IHT0000001	244.9294	247.4684	245.9138	4.9906e-01	4.7809e+00
129	IHT0000002	252.1033	254.6424	252.9159	5.1503e-01	4.8173e+00
130	IHT0000003	254.3795	256.7233	255.2819	5.1432e-01	4.8298e+00
131	IHT0000004	249.1549	251.8893	250.1667	5.3041e-01	4.8030e+00
132	IHT0000005	246.8449	249.3840	247.7784	5.0731e-01	4.7906e+00
133	IHT0000006	240.9893	243.1378	241.8174	4.8256e-01	4.7600e+00
134	IHT0000007	250.7212	252.8696	251.7171	4.4512e-01	4.8110e+00
135	IHT0000008	247.9342	249.6920	248.9343	4.1879e-01	4.7965e+00
136	IHT0000009	248.1182	249.8760	248.9229	4.2980e-01	4.7965e+00
137	IHT0000010	79.6236	82.1627	80.9244	5.6718e-01	4.1791e+00
138	IHT0000011	248.6666	250.8150	249.7722	5.3468e-01	4.8009e+00
139	IHT0000012	243.9378	246.8675	245.4612	5.7453e-01	4.7786e+00
140	IHT0000013	177.3438	179.6875	178.6445	4.8905e-01	4.4723e+00
141	IHT0000014	245.1397	247.2882	246.3545	4.9801e-01	4.7832e+00
142	IHT0000015	183.0979	184.8558	184.1917	4.3225e-01	4.4947e+00
143	IHT0000016	170.1622	172.1154	171.3849	4.4784e-01	4.4438e+00
144	IHT0000017	204.4847	206.8284	205.6526	5.9515e-01	4.5869e+00
145	IHT0000018	206.3777	208.9168	207.4013	5.9915e-01	4.5947e+00
146	IHT0000019	199.7671	202.1109	201.0523	5.8005e-01	4.5664e+00
147	IHT0000020	206.0021	208.5412	207.1700	5.7924e-01	4.5937e+00
148	IHT0000021	-2.6179	0.1164	-1.4422	7.0087e-01	4.1000e+00
149	IHT0000022	177.0395	179.1879	178.2817	5.0341e-01	4.4708e+00
150	IHT0000023	201.6301	203.5833	202.4893	5.5102e-01	4.5728e+00
151	IHT0000024	165.8616	168.0101	166.7328	5.2082e-01	4.4261e+00
152	IHT0000025	200.6423	202.7907	201.4235	5.5383e-01	4.5681e+00
153	IHT0000026	202.9823	205.5213	204.0917	5.7242e-01	4.5799e+00
154	IHT0000027	173.1971	175.5409	174.2558	5.6647e-01	4.4549e+00
155	IHT0000028	175.3192	178.2489	176.8662	6.0469e-01	4.4652e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.2996	204.2293	202.8153	5.6298e-01	4.5742e+00
157	IHT000030	205.2547	207.9890	206.7079	6.0123e-01	4.5916e+00
158	IHT000031	202.3212	204.8603	203.5478	5.3531e-01	4.5775e+00
159	IHT000032	204.9842	207.5233	206.1640	5.0833e-01	4.5892e+00
160	IHT000033	205.0068	207.5458	206.1162	5.3151e-01	4.5889e+00
161	IHT000034	180.4612	182.2190	181.2777	3.9986e-01	4.4829e+00
162	IHT000035	237.5902	240.1292	238.6409	4.9739e-01	4.7439e+00
163	IHT000036	177.9560	180.2997	179.1435	4.7652e-01	4.4743e+00

Velocity 1 = 13.1051 (ft/sec) (+/- 1.9230 %)
 Velocity 2 = 13.0782 (ft/sec) (+/- 1.7066 %)
 Pressure drop = 1.5876 (psi)
 Tsat in = 267.3524 (deg F) Tsat out = 264.8882 (deg F)
 Phi inner = 376.2772 (kBtu/hr-ft2) (+/- 1.2156 %)
 Phi outer = 374.3929 (kBtu/hr-ft2) (+/- 1.2314 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.7639	83.3996	83.1072	1.7064e-01	1.9001e+00
1	TRF000002	83.1037	83.5252	83.2850	1.3473e-01	1.9001e+00
2	TFM000001	86.3895	87.2300	86.7885	1.9791e-01	1.9002e+00
3	TIN000001	85.9440	86.5766	86.2518	1.4882e-01	1.9002e+00
4	TRV000001	88.0615	88.9008	88.4267	2.0761e-01	1.9002e+00
5	TSR000001	169.6540	173.6735	171.3767	1.0482e+00	1.9069e+00
6	TAO020136	135.3822	138.6225	137.1164	8.1100e-01	1.9030e+00
7	TAO050136	204.1918	205.6287	204.8548	3.2807e-01	1.9122e+00
8	TAO070136	201.6632	203.9865	202.6046	4.5662e-01	1.9118e+00
9	TAO080136	244.0893	245.6735	244.9216	3.6717e-01	1.9205e+00
10	TAO090136	256.9196	258.4053	257.6469	3.4361e-01	1.9236e+00
11	TAO100136	251.3306	253.1022	252.1626	4.5023e-01	1.9222e+00
12	TAO105136	256.8563	258.4407	257.6352	3.7360e-01	1.9236e+00
13	TAO110136	94.4025	95.0286	94.6779	1.5288e-01	1.9004e+00
14	TAO115136	258.0990	260.7029	260.0633	4.1993e-01	1.9242e+00
15	TAO120136	285.4070	286.3232	285.8218	2.0631e-01	1.9311e+00
16	TAO125136	265.5842	266.9705	265.9844	2.4236e-01	1.9257e+00
17	TAO130136	276.0713	277.2481	276.6340	2.6917e-01	1.9286e+00
18	TAO120048	118.1421	119.3718	118.7451	2.9895e-01	1.9016e+00
19	TAO130048	283.3535	284.3586	283.9099	2.2683e-01	1.9306e+00
20	TAO120224	281.8500	283.0421	282.5207	2.9372e-01	1.9302e+00
21	TAO130224	265.5320	266.8177	266.2144	2.8026e-01	1.9258e+00
22	TAO120312	269.5019	270.9816	270.2639	3.1949e-01	1.9268e+00
23	TAO130312	279.2016	280.3936	279.7006	2.1060e-01	1.9294e+00
24	TRT020000	203.1807	204.8224	203.8686	3.1424e-01	1.9120e+00
25	TRT070000	243.3021	245.2859	244.4096	4.2750e-01	1.9204e+00
26	TRT100000	269.3219	270.7963	270.0594	3.5083e-01	1.9268e+00
27	TRT120000	458.2608	458.6032	458.3877	9.8106e-02	1.9990e+00
28	TRT125000	96.5848	97.5198	97.0501	1.9823e-01	1.9005e+00
29	TRT130000	288.0232	289.5740	288.7059	3.4481e-01	1.9320e+00
30	EMPTY	39.1464	40.0646	39.7709	2.0758e-01	1.9011e+00
31	TAF050136	138.1628	140.6747	139.5448	6.2812e-01	1.9033e+00
32	TAF070136	160.4826	162.1615	161.2375	4.2204e-01	1.9056e+00
33	TAF080136	251.1835	253.9639	252.6412	6.0209e-01	1.9223e+00
34	TAF090136	95.0645	96.2116	95.7111	3.0531e-01	1.9004e+00
35	TAF100136	192.9283	194.1914	193.6627	3.2846e-01	1.9103e+00
36	TAF105136	198.1021	199.6348	198.8565	3.7396e-01	1.9112e+00
37	TAF110136	205.6182	206.5791	206.1330	2.8805e-01	1.9124e+00
38	TAF115136	212.1203	213.6481	212.8357	3.2665e-01	1.9137e+00
39	TAF120136	251.7683	253.8133	252.7423	3.8724e-01	1.9224e+00
40	TAF125136	223.3633	224.9666	224.1079	3.6573e-01	1.9159e+00
41	TAF130136	228.1916	229.1358	228.6148	2.4475e-01	1.9169e+00
42	TAF120048	219.1600	220.5980	219.9118	3.8548e-01	1.9151e+00
43	TAF130048	235.5636	237.1658	236.2653	4.3698e-01	1.9185e+00
44	TAF120224	212.2826	213.9085	213.1165	3.9577e-01	1.9137e+00
45	TAF130224	220.9978	222.4331	221.5341	3.0057e-01	1.9154e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1078	1.8134e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9408	1.1553e-01	1.9011e+00
48	TAI130048	267.5201	269.5537	268.3265	5.2287e-01	1.9263e+00
49	TAI130136	279.9404	281.4063	280.7726	3.2786e-01	1.9297e+00
50	TAI130224	276.6119	277.8116	277.2875	3.2351e-01	1.9287e+00
51	TAI130312	271.1313	272.5177	271.9556	3.1997e-01	1.9273e+00
52	TRR130000	141.9765	143.6790	142.8659	3.1989e-01	1.9036e+00
53	TSI000001	59.7334	60.4847	60.0762	1.7360e-01	1.9001e+00
54	TSI000002	76.4450	77.8181	77.2657	3.2000e-01	1.9000e+00
55	TSO000001	56.1288	57.1034	56.7354	2.2404e-01	1.9001e+00
56	TSO000002	78.6272	79.4745	78.9920	2.2146e-01	1.9001e+00
57	TAF020136	103.6757	105.7623	104.7361	5.5466e-01	1.9008e+00
58	TAF120312	213.4120	215.5175	214.4152	4.2807e-01	1.9140e+00
59	TAF130312	235.0564	236.6572	236.1067	3.3351e-01	1.9185e+00
60	EMPTY	3.9209	3.9404	3.9326	4.1853e-03	0.0000e+00
61	EMPTY	3.9111	3.9209	3.9155	3.4527e-03	0.0000e+00
62	EMPTY	3.8965	3.9063	3.8998	2.6908e-03	0.0000e+00
63	EMPTY	3.8916	3.8965	3.8924	1.8082e-03	0.0000e+00
64	EMPTY	1.8701	1.8799	1.8738	2.8862e-03	0.0000e+00
65	EMPTY	1.8799	1.8945	1.8889	2.2839e-03	0.0000e+00
66	EMPTY	1.8945	1.8994	1.8960	2.2603e-03	0.0000e+00
67	EMPTY	1.9043	1.9092	1.9085	1.7115e-03	0.0000e+00
68	EMPTY	1.9092	1.9141	1.9139	9.6655e-04	0.0000e+00
69	EMPTY	1.9189	1.9336	1.9239	1.5566e-03	0.0000e+00
70	EMPTY	1.9287	1.9336	1.9319	2.3365e-03	0.0000e+00
71	EMPTY	1.9434	1.9482	1.9478	1.4797e-03	0.0000e+00
72	EMPTY	1.9482	1.9727	1.9534	3.0261e-03	0.0000e+00
73	EMPTY	1.9629	1.9678	1.9652	2.4642e-03	0.0000e+00
74	EMPTY	1.9678	1.9775	1.9729	1.3811e-03	0.0000e+00
75	EMPTY	1.9824	1.9873	1.9833	1.8950e-03	0.0000e+00
76	EMPTY	1.9873	1.9922	1.9910	2.1065e-03	0.0000e+00
77	EMPTY	2.0020	2.0068	2.0025	1.6028e-03	0.0000e+00
78	EMPTY	2.0166	2.0215	2.0177	2.0432e-03	0.0000e+00
79	EMPTY	2.0313	2.0361	2.0342	2.4164e-03	0.0000e+00
80	PAN020136	-10.5959	5.2732	-2.9269	3.2621e+00	8.7003e-01
81	PAN050136	-9.7225	6.6044	-0.5947	3.9876e+00	1.6800e+00
82	PAN070136	-24.5018	16.6206	-3.5133	7.3990e+00	8.7004e-01
83	PAN080136	0.5401	40.1366	13.5360	8.9516e+00	8.7066e-01
84	PAN090136	-8.5976	17.5712	2.2529	5.7765e+00	8.7002e-01
85	PAN100136	7.4931	23.4385	13.8896	3.8841e+00	8.7069e-01
86	PAN105136	-4.7265	6.7176	2.2391	2.3249e+00	8.7002e-01
87	PAN110136	2.0094	10.4780	5.3709	1.9559e+00	8.7010e-01
88	PAN115136	-7.5597	4.9526	2.1938	2.4013e+00	8.7002e-01
89	PAN120136	1.0337	20.1835	3.2920	3.3335e+00	8.7004e-01
90	PAN125136	4.7251	6.7088	5.4286	4.5991e-01	8.7011e-01
91	PAN130136	2.3176	3.7672	2.8669	2.6429e-01	8.7003e-01
92	PAN120048	4.6027	8.3411	6.0050	7.3791e-01	8.7013e-01
93	PAN130048	9.0264	10.5522	9.6581	4.0195e-01	8.7033e-01
94	PAN120224	5.3348	9.4547	7.1018	1.0189e+00	8.7018e-01
95	PAN130224	4.1186	7.2467	5.3378	5.4003e-01	8.7010e-01
96	PAN120312	2.9830	12.7486	8.3831	1.6803e+00	8.7025e-01
97	PAN130312	5.1940	11.1449	6.4162	1.2915e+00	8.7015e-01
98	PAB000136	39.7245	40.3654	39.9891	1.5233e-01	5.8855e-01
99	PAB100136	38.7201	39.1321	38.9114	8.9038e-02	5.8810e-01
100	PAB125136	38.2570	38.3944	38.3660	3.8008e-02	5.8788e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9821	40.4470	39.7683	3.7496e-01	7.5656e-01
102	PRV000001	19.8406	19.9627	19.8528	3.6993e-02	7.5164e-01
103	PSR000001	37.6134	37.8575	37.7184	5.5201e-02	7.5590e-01
104	PFM000001	25.9939	26.6348	26.3033	1.5352e-01	5.0431e-01
105	PAN000136	35.2922	53.1450	43.9531	4.5239e+00	4.9212e+00
106	PFM000002	25.9580	26.3775	26.1946	8.1378e-02	2.1045e-01
107	EMPTY	0.0049	0.0098	0.0052	1.1714e-03	0.0000e+00
108	EMPTY	-6.2012	-3.3545	-5.4223	6.9387e-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	198.7042	199.0948	198.9776	1.0440e-01	1.4427e+00
113	VPW000002	232.9139	233.4999	233.1640	1.0470e-01	1.6166e+00
114	VPW000003	288.8334	289.8099	289.1497	1.5226e-01	1.9147e+00
115	VPW000004	204.4734	204.8640	204.7431	1.1765e-01	1.4715e+00
116	VPW000005	272.6600	273.4413	273.1953	1.2974e-01	1.8284e+00
117	VPW000006	290.6438	291.2297	290.9561	1.1838e-01	1.9245e+00
118	IPW0000001	1045.2548	1049.1594	1047.9882	1.1833e+00	1.1582e+01
119	IPW0000002	2469.1814	2473.0840	2470.8203	1.0695e+00	2.1133e+01
120	IPW0000003	2515.4998	2521.3499	2519.0095	1.3066e+00	2.1486e+01
121	IPW0000004	726.3840	727.3606	727.0190	2.8334e-01	6.0817e+00
122	IPW0000005	482.0544	483.0308	482.5038	2.9327e-01	4.3046e+00
123	IPW0000006	499.0610	500.5259	499.7541	3.9570e-01	4.4257e+00
124	EMPTY	-0.0244	-0.0146	-0.0195	3.5568e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0125	3.2955e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0153	2.9611e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0181	3.0003e-03	0.0000e+00
128	IHT0000001	244.3434	247.2731	245.9372	5.9498e-01	4.7811e+00
129	IHT0000002	251.5174	254.0565	252.9628	5.8527e-01	4.8176e+00
130	IHT0000003	253.7936	256.3326	255.1765	5.7702e-01	4.8292e+00
131	IHT0000004	248.7643	251.1080	250.0612	5.4213e-01	4.8024e+00
132	IHT0000005	246.4543	248.7981	247.6690	5.3712e-01	4.7900e+00
133	IHT0000006	240.4034	242.9424	241.7588	5.6139e-01	4.7597e+00
134	IHT0000007	250.3306	252.8696	251.6507	5.4898e-01	4.8107e+00
135	IHT0000008	247.9342	249.8873	248.9538	4.9801e-01	4.7966e+00
136	IHT0000009	247.5323	250.0714	248.9072	6.2634e-01	4.7964e+00
137	IHT0000010	79.6236	82.1627	80.8463	5.8369e-01	4.1789e+00
138	IHT0000011	248.6666	251.2057	249.7136	5.0803e-01	4.8006e+00
139	IHT0000012	244.5237	246.6722	245.4299	4.6981e-01	4.7785e+00
140	IHT0000013	177.5391	179.6875	178.6719	4.9912e-01	4.4724e+00
141	IHT0000014	245.1397	247.6788	246.3623	5.4506e-01	4.7832e+00
142	IHT0000015	182.7073	185.0511	184.1800	5.6250e-01	4.4947e+00
143	IHT0000016	170.1622	172.3107	171.2638	4.9875e-01	4.4433e+00
144	IHT0000017	204.2894	207.0237	205.6683	5.8847e-01	4.5869e+00
145	IHT0000018	205.9871	208.7215	207.4638	6.5335e-01	4.5950e+00
146	IHT0000019	199.9624	201.9156	200.9859	5.0000e-01	4.5661e+00
147	IHT0000020	206.0021	208.1505	207.0958	5.0532e-01	4.5934e+00
148	IHT0000021	-3.0086	-0.2742	-1.5359	5.9870e-01	4.1000e+00
149	IHT0000022	176.8442	178.9926	178.0004	4.7816e-01	4.4697e+00
150	IHT0000023	201.2395	203.5833	202.3136	5.1031e-01	4.5720e+00
151	IHT0000024	165.4710	168.0101	166.5805	5.3005e-01	4.4255e+00
152	IHT0000025	200.0564	202.5954	201.2399	5.2853e-01	4.5672e+00
153	IHT0000026	202.5917	205.5213	203.9550	5.8592e-01	4.5793e+00
154	IHT0000027	172.6112	175.7362	173.9550	6.1465e-01	4.4538e+00
155	IHT0000028	175.3192	178.4442	176.8076	7.2210e-01	4.4650e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.4949	204.2293	202.7919	7.1872e-01	4.5741e+00
157	IHT000030	205.4500	207.9890	206.6415	6.6993e-01	4.5913e+00
158	IHT000031	202.1259	204.4697	203.3955	6.0522e-01	4.5768e+00
159	IHT000032	204.7889	207.3280	206.0390	5.9843e-01	4.5886e+00
160	IHT000033	204.4208	207.1552	205.9599	6.2095e-01	4.5882e+00
161	IHT000034	180.0706	182.6097	181.1996	5.1189e-01	4.4826e+00
162	IHT000035	237.5902	240.1292	238.6721	5.5972e-01	4.7441e+00
163	IHT000036	178.3466	180.4950	179.1669	4.9442e-01	4.4744e+00

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Velocity 1 = 0.049399 (ft/sec)

Velocity 2 = 0.047501 (ft/sec)

Pressure Drop = 0.018200 (psi)

Tsat in = 0.691101 (deg F) Tsat out = 0.628601 (deg F)

Phi inner = 4.200684 (kBtu/hr-ft2) Phi outer = 0.520813 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0042	0.0050
1	TRF000002	0.0421	0.0505
2	TFM000001	0.0148	0.0171
3	TIN000001	0.0189	0.0219
4	TRV000001	0.0145	0.0164
5	TSR000001	2.1680	1.2813
6	TAO020136	3.5213	2.6358
7	TAO050136	0.0438	0.0214
8	TAO070136	0.5980	0.2943
9	TAO080136	0.9705	0.3947
10	TAO090136	0.6442	0.2494
11	TAO100136	0.6392	0.2528
12	TAO105136	0.7695	0.2978
13	TAO110136	2.1218	2.2925
14	TAO115136	0.7490	0.2872
15	TAO120136	0.4560	0.1593
16	TAO125136	1.6413	0.6133
17	TAO130136	0.6149	0.2218
18	TAO120048	3.0399	2.6273
19	TAO130048	0.5423	0.1906
20	TAO120224	0.5846	0.2065
21	TAO130224	0.6178	0.2315
22	TAO120312	0.8373	0.3089
23	TAO130312	0.6320	0.2255
24	TRT020000	0.2683	0.1314
25	TRT070000	0.4890	0.1997
26	TRT100000	0.4292	0.1587
27	TRT120000	0.0188	0.0041
28	TRT125000	2.8668	3.0439
29	TRT130000	0.8256	0.2851
30	EMPTY	0.0046	0.0116
31	TAF050136	0.2912	0.2082
32	TAF070136	0.1836	0.1137
33	TAF080136	0.6761	0.2669
34	TAF090136	2.3337	2.4992
35	TAF100136	0.4136	0.2131
36	TAF105136	0.3737	0.1876
37	TAF110136	0.4119	0.1994
38	TAF115136	0.4105	0.1925
39	TAF120136	0.8112	0.3199
40	TAF125136	0.4843	0.2156
41	TAF130136	0.4365	0.1906
42	TAF120048	0.4503	0.2043
43	TAF130048	0.3786	0.1600
44	TAF120224	0.5064	0.2371
45	TAF130224	0.4572	0.2060

#	Name	Abs Diff	%Diff
46	EMPTY	0.0460	0.1206
47	EMPTY	0.0275	0.0688
48	TAI130048	0.1794	0.0668
49	TAI130136	0.3057	0.1088
50	TAI130224	0.4186	0.1507
51	TAI130312	0.2494	0.0916
52	TRR130000	0.5388	0.3757
53	TSI000001	0.4479	0.7512
54	TSI000002	1.5754	2.0814
55	TSO000001	0.1193	0.2107
56	TSO000002	0.1799	0.2283
57	TAF020136	0.1729	0.1648
58	TAF120312	0.4266	0.1986
59	TAF130312	0.6003	0.2536
60	EMPTY	0.0152	0.3850
61	EMPTY	0.0155	0.3943
62	EMPTY	0.0135	0.3450
63	EMPTY	0.0136	0.3482
64	EMPTY	0.0068	0.3616
65	EMPTY	0.0059	0.3114
66	EMPTY	0.0080	0.4202
67	EMPTY	0.0057	0.2978
68	EMPTY	0.0056	0.2917
69	EMPTY	0.0066	0.3419
70	EMPTY	0.0064	0.3302
71	EMPTY	0.0054	0.2765
72	EMPTY	0.0057	0.2909
73	EMPTY	0.0070	0.3549
74	EMPTY	0.0058	0.2931
75	EMPTY	0.0064	0.3217
76	EMPTY	0.0058	0.2905
77	EMPTY	0.0057	0.2838
78	EMPTY	0.0057	0.2817
79	EMPTY	0.0058	0.2843
80	PAN020136	2.6627	1007.8349
81	PAN050136	0.3326	126.8981
82	PAN070136	0.4654	11.6973
83	PAN080136	1.1216	9.0347
84	PAN090136	1.6846	296.4279
85	PAN100136	0.6058	4.5604
86	PAN105136	0.9796	30.4346
87	PAN110136	1.0925	25.5353
88	PAN115136	0.9170	29.4779
89	PAN120136	0.8911	37.1153
90	PAN125136	0.4287	7.3191
91	PAN130136	0.0549	1.9523
92	PAN120048	0.0198	0.3308
93	PAN130048	0.4624	5.0284
94	PAN120224	0.4120	6.1586
95	PAN130224	0.2213	3.9809
96	PAN120312	0.1037	1.2219
97	PAN130312	0.6531	11.3324
98	PAB000136	0.4660	1.1519
99	PAB100136	0.4816	1.2226
100	PAB125136	0.4083	1.0530

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.3003	0.7495
102	PRV000001	0.2636	1.3456
103	PSR000001	0.4272	1.1199
104	PFM000001	0.1995	0.7643
105	PAN000136	0.5035	1.1326
106	PFM000002	0.1913	0.7357
107	EMPTY	0.0001	1.8868
108	EMPTY	0.7265	11.8153
109	EMPTY	0.0001	2.1277
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.1562	0.0784
113	VPW000002	0.0078	0.0033
114	VPW000003	0.0000	0.0000
115	VPW000004	0.0234	0.0114
116	VPW000005	0.0508	0.0186
117	VPW000006	0.0391	0.0134
118	IPW000001	22.4126	2.0939
119	IPW000002	31.2979	1.2829
120	IPW000003	31.2385	1.2557
121	IPW000004	5.2831	0.7214
122	IPW000005	0.4882	0.1011
123	IPW000006	2.5489	0.5126
124	EMPTY	0.0011	5.9783
125	EMPTY	0.0007	5.3030
126	EMPTY	0.0004	2.5478
127	EMPTY	0.0007	4.0230
128	IHT000001	0.0234	0.0095
129	IHT000002	0.0469	0.0185
130	IHT000003	0.1054	0.0413
131	IHT000004	0.1055	0.0422
132	IHT000005	0.1094	0.0441
133	IHT000006	0.0586	0.0242
134	IHT000007	0.0664	0.0264
135	IHT000008	0.0195	0.0078
136	IHT000009	0.0157	0.0063
137	IHT000010	0.0781	0.0965
138	IHT000011	0.0586	0.0235
139	IHT000012	0.0313	0.0127
140	IHT000013	0.0274	0.0153
141	IHT000014	0.0078	0.0032
142	IHT000015	0.0117	0.0064
143	IHT000016	0.1211	0.0707
144	IHT000017	0.0157	0.0076
145	IHT000018	0.0625	0.0301
146	IHT000019	0.0664	0.0330
147	IHT000020	0.0742	0.0358
148	IHT000021	0.0937	6.4970
149	IHT000022	0.2813	0.1578
150	IHT000023	0.1757	0.0868
151	IHT000024	0.1523	0.0913
152	IHT000025	0.1836	0.0911
153	IHT000026	0.1367	0.0670
154	IHT000027	0.3008	0.1726
155	IHT000028	0.0586	0.0331

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0234	0.0115
157	IHT000030	0.0664	0.0321
158	IHT000031	0.1523	0.0748
159	IHT000032	0.1250	0.0606
160	IHT000033	0.1563	0.0758
161	IHT000034	0.0781	0.0431
162	IHT000035	0.0312	0.0131
163	IHT000036	0.0234	0.0131

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Velocity 1 = 12.8183 (ft/sec) (+/- 1.9447 %)
Velocity 2 = 12.7998 (ft/sec) (+/- 1.7097 %)
Pressure drop = 1.4388 (psi)
Tsat in = 267.9096 (deg F) Tsat out = 265.7115 (deg F)
Phi inner = 372.9179 (kBtu/hr-ft2) (+/- 1.2164 %)
Phi outer = 374.4424 (kBtu/hr-ft2) (+/- 1.2311 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.7639	83.3996	83.0564	1.8607e-01	1.9001e+00
1	TRF000002	82.8929	83.5252	83.2428	1.3202e-01	1.9001e+00
2	TFM000001	85.4442	86.0755	85.7685	1.6695e-01	1.9002e+00
3	TIN000001	84.8905	85.4181	85.1981	1.4591e-01	1.9002e+00
4	TRV000001	86.8069	87.6455	87.2724	1.7977e-01	1.9002e+00
5	TSR000001	166.7063	169.4597	168.1927	8.4648e-01	1.9065e+00
6	TAO020136	130.2022	134.8756	132.9919	8.5982e-01	1.9027e+00
7	TAO050136	204.8605	206.3912	205.7260	3.4294e-01	1.9124e+00
8	TAO070136	203.3100	205.5333	204.2380	4.5143e-01	1.9121e+00
9	TAO080136	245.8597	247.5345	246.7756	3.4654e-01	1.9209e+00
10	TAO090136	258.8669	260.6297	259.7210	3.6285e-01	1.9241e+00
11	TAO100136	253.0075	255.1495	254.2671	4.9013e-01	1.9227e+00
12	TAO105136	259.0913	260.3950	259.8328	3.2734e-01	1.9241e+00
13	TAO110136	94.1956	94.8193	94.5284	1.5855e-01	1.9004e+00
14	TAO115136	260.3303	262.8390	262.0622	3.8305e-01	1.9247e+00
15	TAO120136	287.8789	288.7025	288.2816	1.8306e-01	1.9318e+00
16	TAO125136	266.6003	271.8548	267.8892	7.8888e-01	1.9262e+00
17	TAO130136	278.1574	279.0631	278.6051	1.9430e-01	1.9291e+00
18	TAO120048	118.9612	120.0884	119.5063	3.0496e-01	1.9017e+00
19	TAO130048	286.5466	287.5507	286.9158	2.3452e-01	1.9314e+00
20	TAO120224	283.9566	285.9708	284.5649	3.9329e-01	1.9308e+00
21	TAO130224	267.7289	268.9223	268.1339	2.5937e-01	1.9263e+00
22	TAO120312	271.0727	272.9202	272.2701	4.0789e-01	1.9274e+00
23	TAO130312	281.3987	282.2228	281.7583	1.7437e-01	1.9300e+00
24	TRT020000	204.4363	205.7867	205.0535	2.4502e-01	1.9122e+00
25	TRT070000	245.7592	247.3619	246.5658	4.0158e-01	1.9209e+00
26	TRT100000	271.8070	273.0039	272.3119	2.6114e-01	1.9274e+00
27	TRT120000	458.1760	458.5179	458.3502	7.7255e-02	1.9990e+00
28	TRT125000	95.8609	96.4825	96.1838	1.6347e-01	1.9005e+00
29	TRT130000	290.2097	291.9406	290.9464	4.3268e-01	1.9326e+00
30	EMPTY	39.3761	40.0646	39.7847	1.9280e-01	1.9011e+00
31	TAF050136	138.2637	140.6713	139.6127	5.4401e-01	1.9033e+00
32	TAF070136	160.6794	162.5545	161.5487	4.2801e-01	1.9056e+00
33	TAF080136	252.5740	255.2589	253.9553	6.7363e-01	1.9227e+00
34	TAF090136	94.2298	95.2738	94.8063	2.7581e-01	1.9004e+00
35	TAF100136	193.9970	195.2584	194.7342	3.5068e-01	1.9105e+00
36	TAF105136	199.3462	200.8775	199.9782	3.2991e-01	1.9113e+00
37	TAF110136	207.0556	208.1091	207.5841	2.4626e-01	1.9127e+00
38	TAF115136	213.5524	215.5545	214.2780	3.5002e-01	1.9140e+00
39	TAF120136	253.3468	254.8312	254.1596	3.5359e-01	1.9227e+00
40	TAF125136	224.7783	226.0960	225.4859	2.8882e-01	1.9162e+00
41	TAF130136	229.7029	230.8365	230.2992	2.7205e-01	1.9172e+00
42	TAF120048	221.0770	222.8001	221.9122	4.3851e-01	1.9155e+00
43	TAF130048	238.8589	241.0202	239.9376	4.3927e-01	1.9194e+00
44	TAF120224	213.7166	215.5304	214.5413	3.7898e-01	1.9140e+00
45	TAF130224	222.4331	223.5801	223.0795	2.6928e-01	1.9157e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1353	2.3224e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.9545	1.2474e-01	1.9011e+00
48	TAI130048	272.0445	273.6126	272.8786	3.5197e-01	1.9275e+00
49	TAI130136	282.8684	284.6978	283.5677	3.7660e-01	1.9305e+00
50	TAI130224	278.9169	279.9308	279.3924	2.8852e-01	1.9293e+00
51	TAI130312	273.3474	274.4547	273.8611	2.7035e-01	1.9278e+00
52	TRR130000	140.1690	142.2767	141.2256	4.7387e-01	1.9034e+00
53	TSI000001	59.5179	60.2694	59.8874	1.7109e-01	1.9001e+00
54	TSI000002	77.8186	79.4027	78.8114	3.3991e-01	1.9001e+00
55	TSO000001	56.4537	57.2122	56.8048	2.0465e-01	1.9001e+00
56	TSO000002	78.6272	79.8974	79.2795	2.6569e-01	1.9001e+00
57	TAF020136	102.6323	105.3455	104.1314	5.4420e-01	1.9008e+00
58	TAF120312	214.9439	217.1413	215.9679	4.7342e-01	1.9143e+00
59	TAF130312	237.1268	239.1000	237.8333	4.2000e-01	1.9189e+00
60	EMPTY	3.9697	3.9893	3.9786	3.3728e-03	0.0000e+00
61	EMPTY	3.9551	3.9697	3.9624	3.1583e-03	0.0000e+00
62	EMPTY	3.9404	3.9502	3.9451	2.7832e-03	0.0000e+00
63	EMPTY	3.9355	3.9404	3.9381	2.4642e-03	0.0000e+00
64	EMPTY	1.8896	1.9043	1.8951	2.1249e-03	0.0000e+00
65	EMPTY	1.9043	1.9092	1.9090	9.6655e-04	0.0000e+00
66	EMPTY	1.9141	1.9189	1.9178	2.1065e-03	0.0000e+00
67	EMPTY	1.9238	1.9287	1.9286	6.9053e-04	0.0000e+00
68	EMPTY	1.9336	1.9434	1.9338	1.3811e-03	0.0000e+00
69	EMPTY	1.9434	1.9482	1.9437	1.1714e-03	0.0000e+00
70	EMPTY	1.9482	1.9531	1.9521	2.0432e-03	0.0000e+00
71	EMPTY	1.9629	1.9727	1.9677	1.2041e-03	0.0000e+00
72	EMPTY	1.9678	1.9775	1.9728	1.2041e-03	0.0000e+00
73	EMPTY	1.9824	1.9873	1.9848	2.4642e-03	0.0000e+00
74	EMPTY	1.9922	1.9971	1.9923	6.9053e-04	0.0000e+00
75	EMPTY	2.0020	2.0068	2.0021	6.9053e-04	0.0000e+00
76	EMPTY	2.0068	2.0117	2.0092	2.4642e-03	0.0000e+00
77	EMPTY	2.0166	2.0215	2.0212	1.1714e-03	0.0000e+00
78	EMPTY	2.0361	2.0410	2.0362	6.9053e-04	0.0000e+00
79	EMPTY	2.0508	2.0557	2.0515	1.7115e-03	0.0000e+00
80	PAN020136	-11.2826	5.1206	-1.3430	3.3210e+00	8.7001e-01
81	PAN050136	-12.3165	12.4027	-0.6710	5.1514e+00	1.6800e+00
82	PAN070136	-23.5863	7.3128	-3.1532	5.2195e+00	8.7004e-01
83	PAN080136	-0.3755	27.3192	9.0255	5.5325e+00	8.7029e-01
84	PAN090136	-8.0636	10.5521	1.7173	4.8567e+00	8.7001e-01
85	PAN100136	3.2969	21.5312	13.6226	3.5546e+00	8.7067e-01
86	PAN105136	-1.2933	7.4805	2.7503	2.0840e+00	8.7003e-01
87	PAN110136	-0.0505	7.2737	3.2072	1.6574e+00	8.7004e-01
88	PAN115136	-7.5597	5.3340	3.0406	2.3047e+00	8.7003e-01
89	PAN120136	2.4070	17.9710	3.7437	2.3473e+00	8.7005e-01
90	PAN125136	2.5126	4.2674	3.3274	3.9159e-01	8.7004e-01
91	PAN130136	2.3939	3.2331	2.7616	2.1117e-01	8.7003e-01
92	PAN120048	4.4501	5.5946	5.0651	2.9745e-01	8.7009e-01
93	PAN130048	9.2552	10.3996	9.9251	2.4868e-01	8.7035e-01
94	PAN120224	3.7326	8.5392	6.1969	9.7719e-01	8.7014e-01
95	PAN130224	4.3475	8.0096	5.3668	7.1881e-01	8.7010e-01
96	PAN120312	7.1791	9.1628	8.1145	5.0392e-01	8.7024e-01
97	PAN130312	5.0414	7.7117	6.3613	4.6042e-01	8.7015e-01
98	PAB000136	40.0450	40.7316	40.3645	1.9166e-01	5.8871e-01
99	PAB100136	39.2237	39.6814	39.4260	9.8783e-02	5.8832e-01
100	PAB125136	38.8064	38.9895	38.9016	4.5156e-02	5.8810e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3483	40.6911	40.0612	3.7186e-01	7.5666e-01
102	PRV000001	19.7186	19.8406	19.7405	4.7374e-02	7.5162e-01
103	PSR000001	38.2238	38.3458	38.2823	6.1605e-02	7.5608e-01
104	PFM000001	24.8037	25.5361	25.1608	1.8885e-01	5.0394e-01
105	PAN000136	30.2568	50.8561	39.8332	5.3519e+00	4.9210e+00
106	PFM000002	24.9344	25.3036	25.0878	9.7135e-02	2.0960e-01
107	EMPTY	0.0049	0.0098	0.0052	1.1714e-03	0.0000e+00
108	EMPTY	-6.0889	-0.6299	-4.7171	1.1986e+00	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	198.8995	199.2901	199.0908	1.4493e-01	1.4433e+00
113	VPW000002	232.9139	233.4999	233.1874	1.1161e-01	1.6167e+00
114	VPW000003	289.0287	289.4193	289.2395	1.2378e-01	1.9152e+00
115	VPW000004	204.4734	205.0593	204.7860	1.3087e-01	1.4717e+00
116	VPW000005	272.8553	273.4413	273.1913	1.1189e-01	1.8284e+00
117	VPW000006	290.8391	291.4250	291.0694	1.2901e-01	1.9251e+00
118	IPW000001	1060.8735	1070.6353	1065.0515	3.0041e+00	1.1679e+01
119	IPW000002	2449.6687	2457.4739	2453.4148	1.5186e+00	2.1006e+01
120	IPW000003	2490.1499	2497.9500	2494.2844	2.6615e+00	2.1305e+01
121	IPW000004	729.3137	731.7551	730.5443	4.6522e-01	6.1080e+00
122	IPW000005	481.5661	483.0308	482.0448	3.4860e-01	4.3014e+00
123	IPW000006	495.6431	497.5962	496.5509	4.9334e-01	4.4032e+00
124	EMPTY	-0.0244	-0.0098	-0.0186	3.4173e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0128	2.5894e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0144	2.8608e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0179	3.6393e-03	0.0000e+00
128	IHT000001	244.9294	247.6637	246.2146	6.4729e-01	4.7825e+00
129	IHT000002	251.9080	254.6424	253.1659	6.2783e-01	4.8186e+00
130	IHT000003	254.3795	256.9186	255.4304	6.2626e-01	4.8306e+00
131	IHT000004	249.3502	252.0846	250.3855	6.6644e-01	4.8041e+00
132	IHT000005	247.0403	249.3840	247.9659	5.6608e-01	4.7915e+00
133	IHT000006	240.9893	243.7237	242.1533	6.1632e-01	4.7617e+00
134	IHT000007	251.1118	253.6509	252.1741	5.4841e-01	4.8134e+00
135	IHT000008	248.1295	250.4733	249.2702	5.3867e-01	4.7983e+00
136	IHT000009	247.9229	250.2667	249.2432	5.8335e-01	4.7981e+00
137	IHT000010	79.4283	82.1627	80.8463	5.6608e-01	4.1789e+00
138	IHT000011	248.6666	251.0103	249.7722	5.5749e-01	4.8009e+00
139	IHT000012	244.1331	246.6722	245.3948	6.0901e-01	4.7783e+00
140	IHT000013	177.5391	179.8828	178.6719	5.5102e-01	4.4724e+00
141	IHT000014	245.1397	247.6788	246.3389	5.5103e-01	4.7831e+00
142	IHT000015	183.0979	185.4417	184.2542	4.9574e-01	4.4950e+00
143	IHT000016	170.3576	172.5060	171.2911	5.1492e-01	4.4434e+00
144	IHT000017	204.0941	207.0237	205.5979	7.0061e-01	4.5866e+00
145	IHT000018	206.1824	208.5261	207.2880	6.7613e-01	4.5942e+00
146	IHT000019	198.9859	202.6968	200.7516	5.9577e-01	4.5651e+00
147	IHT000020	205.4162	208.7365	206.8458	5.8319e-01	4.5922e+00
148	IHT000021	-3.5945	0.3118	-1.8093	6.9811e-01	4.1000e+00
149	IHT000022	176.2583	179.3833	177.7973	5.2592e-01	4.4689e+00
150	IHT000023	200.6536	203.9739	202.1808	5.7139e-01	4.5714e+00
151	IHT000024	165.0804	168.0101	166.4281	5.5978e-01	4.4249e+00
152	IHT000025	200.0564	202.2048	201.1306	5.4569e-01	4.5668e+00
153	IHT000026	202.5917	204.9354	203.8534	5.9216e-01	4.5788e+00
154	IHT000027	172.6112	175.1502	173.9394	6.0746e-01	4.4537e+00
155	IHT000028	175.1239	178.8349	176.9287	7.2390e-01	4.4655e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.1043	204.6199	202.9091	7.4614e-01	4.5746e+00
157	IHT000030	204.8640	208.5750	206.7470	7.9190e-01	4.5918e+00
158	IHT000031	201.5400	205.4462	203.5166	7.3466e-01	4.5773e+00
159	IHT000032	204.3983	208.3045	206.1445	7.4075e-01	4.5891e+00
160	IHT000033	204.4208	208.3271	206.0928	7.3521e-01	4.5888e+00
161	IHT000034	180.0706	183.0003	181.3363	6.2669e-01	4.4831e+00
162	IHT000035	237.3949	240.3245	238.7386	6.4795e-01	4.7444e+00
163	IHT000036	178.1513	180.8857	179.2607	6.0803e-01	4.4748e+00

Velocity 1 = 12.8173 (ft/sec) (+/- 1.9448 %)

Velocity 2 = 12.7958 (ft/sec) (+/- 1.7098 %)

Pressure drop = 1.4143 (psi)

Tsats in = 267.8555 (deg F) Tsats out = 265.6373 (deg F)

Phi inner = 374.1713 (kBtu/hr-ft2) (+/- 1.2161 %)

Phi outer = 377.2328 (kBtu/hr-ft2) (+/- 1.2303 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.7639	83.3996	83.0352	1.8183e-01	1.9001e+00
1	TRF000002	82.8929	83.5252	83.2217	1.2165e-01	1.9001e+00
2	TFM000001	86.1787	87.2290	86.5826	1.9500e-01	1.9002e+00
3	TIN000001	85.7331	86.1554	85.9568	1.2536e-01	1.9002e+00
4	TRV000001	87.6434	88.6904	88.1169	2.3675e-01	1.9002e+00
5	TSR000001	166.4102	170.7343	169.1941	1.2385e+00	1.9066e+00
6	TAO020136	133.5563	140.1380	136.4264	2.0791e+00	1.9030e+00
7	TAO050136	205.7213	207.2511	206.4671	2.9581e-01	1.9125e+00
8	TAO070136	204.0831	206.5957	204.8916	5.0379e-01	1.9122e+00
9	TAO080136	246.5105	248.1865	247.3001	3.7176e-01	1.9211e+00
10	TAO090136	259.4239	261.7422	260.4253	4.7460e-01	1.9243e+00
11	TAO100136	254.3114	256.1726	255.1044	4.5243e-01	1.9229e+00
12	TAO105136	259.7433	261.3250	260.3352	3.2870e-01	1.9243e+00
13	TAO110136	95.5389	96.2662	95.8886	1.5816e-01	1.9005e+00
14	TAO115136	261.8165	263.4884	262.6006	3.2445e-01	1.9248e+00
15	TAO120136	288.4272	289.3425	288.8412	1.8876e-01	1.9320e+00
16	TAO125136	267.4307	268.7236	267.9851	3.0073e-01	1.9262e+00
17	TAO130136	278.4240	279.5139	279.0032	2.4756e-01	1.9292e+00
18	TAO120048	120.4955	121.8252	121.2035	3.3818e-01	1.9018e+00
19	TAO130048	287.1862	288.2793	287.7794	2.5212e-01	1.9317e+00
20	TAO120224	284.3224	286.5191	284.9969	3.5217e-01	1.9309e+00
21	TAO130224	268.0046	269.1954	268.4852	2.9729e-01	1.9264e+00
22	TAO120312	271.8120	273.7510	272.6688	4.0911e-01	1.9275e+00
23	TAO130312	281.4899	282.4980	281.9558	2.0941e-01	1.9300e+00
24	TRT020000	205.0147	206.3650	205.6127	3.0557e-01	1.9123e+00
25	TRT070000	246.5129	248.1161	247.1846	4.1540e-01	1.9210e+00
26	TRT100000	272.2668	273.5542	272.8671	3.1503e-01	1.9275e+00
27	TRT120000	458.1755	458.5179	458.3330	9.8326e-02	1.9990e+00
28	TRT125000	98.3430	99.1726	98.8206	1.6230e-01	1.9006e+00
29	TRT130000	290.5745	292.1236	291.3869	3.9824e-01	1.9327e+00
30	EMPTY	39.3761	40.0646	39.7617	2.0445e-01	1.9011e+00
31	TAF050136	139.3662	141.2749	140.2870	5.7888e-01	1.9033e+00
32	TAF070136	161.3716	163.3407	162.2819	4.2648e-01	1.9057e+00
33	TAF080136	252.7577	255.4438	254.2216	5.7066e-01	1.9227e+00
34	TAF090136	96.0016	97.1483	96.6356	2.9988e-01	1.9005e+00
35	TAF100136	194.6755	196.2281	195.4405	3.4157e-01	1.9106e+00
36	TAF105136	199.7291	201.4540	200.7358	3.4307e-01	1.9115e+00
37	TAF110136	207.6286	208.8741	208.2766	3.4543e-01	1.9128e+00
38	TAF115136	214.3150	216.1276	215.0712	3.7505e-01	1.9141e+00
39	TAF120136	253.7164	255.6638	254.4450	3.5760e-01	1.9228e+00
40	TAF125136	225.3426	227.1288	226.3100	3.6152e-01	1.9164e+00
41	TAF130136	230.6452	231.6846	231.1784	2.4263e-01	1.9174e+00
42	TAF120048	222.0345	223.4705	222.8119	3.4985e-01	1.9157e+00
43	TAF130048	240.3614	242.5219	241.4852	4.9435e-01	1.9197e+00
44	TAF120224	214.5753	215.9106	215.2894	3.4231e-01	1.9142e+00
45	TAF130224	223.2939	224.4398	223.7331	2.7555e-01	1.9159e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0526	2.4385e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9408	1.1553e-01	1.9011e+00
48	TAI130048	271.3075	272.6910	272.1041	3.3177e-01	1.9273e+00
49	TAI130136	283.5080	285.0631	284.3499	3.6539e-01	1.9307e+00
50	TAI130224	278.7327	279.9298	279.2451	2.7984e-01	1.9293e+00
51	TAI130312	273.3479	274.4555	273.9571	2.7469e-01	1.9278e+00
52	TRR130000	139.3682	142.5759	140.6716	7.1525e-01	1.9034e+00
53	TSI000001	59.3030	60.1631	59.7372	2.2441e-01	1.9001e+00
54	TSI000002	77.8186	79.5068	78.6129	3.9927e-01	1.9000e+00
55	TSO000001	56.3460	57.3199	56.8005	2.0858e-01	1.9001e+00
56	TSO000002	78.9446	79.7916	79.3387	2.2931e-01	1.9001e+00
57	TAF020136	103.8865	105.7625	104.9907	5.1416e-01	1.9008e+00
58	TAF120312	215.6122	218.0010	216.6672	4.8021e-01	1.9144e+00
59	TAF130312	237.6910	239.1946	238.3785	3.6962e-01	1.9190e+00
60	EMPTY	3.9893	4.0039	3.9934	3.9901e-03	0.0000e+00
61	EMPTY	3.9697	3.9844	3.9765	2.7709e-03	0.0000e+00
62	EMPTY	3.9551	3.9648	3.9604	2.0337e-03	0.0000e+00
63	EMPTY	3.9502	3.9600	3.9533	2.9197e-03	0.0000e+00
64	EMPTY	1.8994	1.9043	1.9016	2.4484e-03	0.0000e+00
65	EMPTY	1.9092	1.9189	1.9148	2.0598e-03	0.0000e+00
66	EMPTY	1.9189	1.9287	1.9237	1.2041e-03	0.0000e+00
67	EMPTY	1.9336	1.9385	1.9340	1.3381e-03	0.0000e+00
68	EMPTY	1.9385	1.9434	1.9396	2.1065e-03	0.0000e+00
69	EMPTY	1.9482	1.9531	1.9504	2.4484e-03	0.0000e+00
70	EMPTY	1.9531	1.9580	1.9579	6.9053e-04	0.0000e+00
71	EMPTY	1.9678	1.9775	1.9727	1.3951e-03	0.0000e+00
72	EMPTY	1.9775	1.9824	1.9778	1.1714e-03	0.0000e+00
73	EMPTY	1.9873	1.9971	1.9915	1.9754e-03	0.0000e+00
74	EMPTY	1.9922	2.0020	1.9971	9.8648e-04	0.0000e+00
75	EMPTY	2.0068	2.0117	2.0078	1.9730e-03	0.0000e+00
76	EMPTY	2.0117	2.0166	2.0158	1.8082e-03	0.0000e+00
77	EMPTY	2.0264	2.0313	2.0268	1.3381e-03	0.0000e+00
78	EMPTY	2.0361	2.0459	2.0414	1.6624e-03	0.0000e+00
79	EMPTY	2.0557	2.0605	2.0572	2.3008e-03	0.0000e+00
80	PAN020136	-8.9175	8.3250	-0.7800	3.7063e+00	3.7000e-01
81	PAN050136	-13.8424	7.3673	-2.8378	5.3111e+00	1.6800e+00
82	PAN070136	-24.6544	7.9994	-6.2935	8.7663e+00	8.7014e-01
83	PAN080136	-1.9013	41.8151	12.8615	9.6694e+00	8.7059e-01
84	PAN090136	-11.1916	11.3151	2.4818	5.4631e+00	8.7002e-01
85	PAN100136	4.8228	24.4303	14.1063	4.5447e+00	8.7071e-01
86	PAN105136	-7.3968	5.4969	1.3617	2.1626e+00	8.7001e-01
87	PAN110136	0.9413	9.1810	3.5963	1.6707e+00	8.7005e-01
88	PAN115136	-7.6359	4.5711	2.6103	1.9958e+00	8.7002e-01
89	PAN120136	2.5596	12.9356	4.1481	1.6593e+00	8.7006e-01
90	PAN125136	2.2837	4.0385	3.2221	3.8295e-01	8.7004e-01
91	PAN130136	2.6990	3.5383	3.0210	2.1038e-01	8.7003e-01
92	PAN120048	3.7635	6.5864	4.7797	6.3673e-01	8.7008e-01
93	PAN130048	10.3996	11.5441	10.9368	2.4612e-01	8.7043e-01
94	PAN120224	4.2667	7.7762	5.8750	7.1634e-01	8.7012e-01
95	PAN130224	5.1104	8.6963	5.7208	5.9916e-01	8.7012e-01
96	PAN120312	7.7132	11.2227	8.9965	6.4677e-01	8.7029e-01
97	PAN130312	5.8806	7.4828	6.6252	3.8397e-01	8.7016e-01
98	PAB000136	40.0450	40.6401	40.3279	1.6406e-01	5.8870e-01
99	PAB100136	39.1779	39.5441	39.3518	7.3986e-02	5.8828e-01
100	PAB125136	38.7606	38.9437	38.8531	4.7599e-02	5.8808e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.3483	40.8132	40.0832	3.6203e-01	7.5666e-01
102	PRV0000001	19.7186	19.8406	19.7308	3.6993e-02	7.5162e-01
103	PSR0000001	38.2238	38.4679	38.2848	6.6404e-02	7.5608e-01
104	PFM0000001	24.8037	25.5361	25.1534	2.0320e-01	5.0394e-01
105	PAN000136	27.5102	49.9406	39.1557	4.7031e+00	4.9210e+00
106	PFM0000002	24.8002	25.3707	25.0683	1.2754e-01	2.0959e-01
107	EMPTY	0.0049	0.0098	0.0052	1.1714e-03	0.0000e+00
108	EMPTY	-10.0000	-2.9492	-4.9609	1.1563e+00	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	198.8995	199.4854	199.1026	1.2453e-01	1.4433e+00
113	VPW0000002	232.9139	233.3046	233.1523	1.0654e-01	1.6165e+00
114	VPW0000003	289.0287	289.6146	289.2708	1.2200e-01	1.9153e+00
115	VPW0000004	204.4734	204.8640	204.6845	1.2992e-01	1.4712e+00
116	VPW0000005	273.0506	273.4413	273.2578	9.9902e-02	1.8287e+00
117	VPW0000006	290.8391	291.4250	291.1593	1.6154e-01	1.9256e+00
118	IPW0000001	1051.1118	1055.0165	1053.2201	1.1727e+00	1.1612e+01
119	IPW0000002	2490.6455	2496.4993	2493.4546	1.6799e+00	2.1299e+01
120	IPW0000003	2497.9500	2503.7998	2500.7966	1.2588e+00	2.1352e+01
121	IPW0000004	730.7786	731.7551	731.1205	3.1583e-01	6.1123e+00
122	IPW0000005	484.9838	486.4485	485.5502	3.7379e-01	4.3259e+00
123	IPW0000006	499.0610	500.5259	499.6564	2.8403e-01	4.4250e+00
124	EMPTY	-0.0293	-0.0098	-0.0205	3.9459e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	3.0309e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0166	2.9594e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	3.4513e-03	0.0000e+00
128	IHT0000001	244.5387	247.4684	245.8201	5.9472e-01	4.7805e+00
129	IHT0000002	251.7127	254.0565	252.8652	5.5419e-01	4.8171e+00
130	IHT0000003	253.7936	255.9420	255.0827	5.6359e-01	4.8287e+00
131	IHT0000004	248.5690	251.1080	250.0417	5.4564e-01	4.8023e+00
132	IHT0000005	246.2590	248.4074	247.6143	4.9976e-01	4.7897e+00
133	IHT0000006	240.2081	242.7471	241.7354	5.5058e-01	4.7596e+00
134	IHT0000007	250.1352	252.4790	251.4710	5.2698e-01	4.8098e+00
135	IHT0000008	247.7389	249.8573	248.6960	5.5978e-01	4.7953e+00
136	IHT0000009	247.7276	249.8760	248.6729	5.7772e-01	4.7952e+00
137	IHT0000010	79.8190	81.7721	80.6939	4.7226e-01	4.1787e+00
138	IHT0000011	248.8619	250.8150	249.6433	4.3762e-01	4.8002e+00
139	IHT0000012	244.3284	246.6722	245.2776	4.7188e-01	4.7777e+00
140	IHT0000013	177.7344	179.8828	178.5586	4.8535e-01	4.4719e+00
141	IHT0000014	245.5304	247.4835	246.3272	4.5990e-01	4.7831e+00
142	IHT0000015	183.0979	185.4417	184.2347	4.9551e-01	4.4949e+00
143	IHT0000016	170.3576	172.5060	171.3927	4.7062e-01	4.4438e+00
144	IHT0000017	204.4847	206.8284	205.6331	5.9796e-01	4.5868e+00
145	IHT0000018	206.1824	208.7215	207.3388	5.5921e-01	4.5944e+00
146	IHT0000019	199.5718	202.1109	200.7672	5.9926e-01	4.5652e+00
147	IHT0000020	205.6115	208.3458	206.8770	5.6805e-01	4.5924e+00
148	IHT0000021	-3.0086	-0.0789	-1.7351	6.8144e-01	4.1000e+00
149	IHT0000022	176.6489	179.1879	177.8989	5.2940e-01	4.4693e+00
150	IHT0000023	201.0442	203.5833	202.2784	5.6832e-01	4.5718e+00
151	IHT0000024	165.2757	168.0101	166.4945	5.4471e-01	4.4252e+00
152	IHT0000025	199.8611	202.7907	201.2048	5.2887e-01	4.5671e+00
153	IHT0000026	202.5917	205.3260	203.8769	5.0853e-01	4.5789e+00
154	IHT0000027	172.6112	175.3456	174.0722	5.3994e-01	4.4542e+00
155	IHT0000028	175.7099	178.4442	176.9209	6.3135e-01	4.4654e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.4949	204.4246	202.8036	7.0061e-01	4.5742e+00
157	IHT000030	205.4500	207.9890	206.6415	6.3901e-01	4.5913e+00
158	IHT000031	202.1259	204.6650	203.5127	6.2795e-01	4.5773e+00
159	IHT000032	204.7889	207.5233	206.1562	6.6731e-01	4.5891e+00
160	IHT000033	204.8115	207.3505	206.0693	6.6399e-01	4.5887e+00
161	IHT000034	180.2659	182.6097	181.2542	5.3147e-01	4.4828e+00
162	IHT000035	237.5902	240.1292	238.7073	5.9194e-01	4.7443e+00
163	IHT000036	178.1513	180.2997	179.1552	5.2646e-01	4.4743e+00

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Velocity 1 = 0.001000 (ft/sec)

Velocity 2 = 0.004000 (ft/sec)

Pressure Drop = 0.024500 (psi)

Tsat in = 0.054108 (deg F) Tsat out = 0.074188 (deg F)

Phi inner = 1.253387 (kBtu/hr-ft2) Phi outer = 2.790375 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0212	0.0255
1	TRF000002	0.0211	0.0253
2	TFM000001	0.8141	0.9492
3	TIN000001	0.7587	0.8905
4	TRV000001	0.8445	0.9677
5	TSR000001	1.0014	0.5954
6	TAO020136	3.4345	2.5825
7	TAO050136	0.7411	0.3602
8	TAO070136	0.6536	0.3200
9	TAO080136	0.5245	0.2125
10	TAO090136	0.7043	0.2712
11	TAO100136	0.8373	0.3293
12	TAO105136	0.5024	0.1934
13	TAO110136	1.3602	1.4389
14	TAO115136	0.5384	0.2054
15	TAO120136	0.5596	0.1941
16	TAO125136	0.0959	0.0358
17	TAO130136	0.3981	0.1429
18	TAO120048	1.6972	1.4202
19	TAO130048	0.8636	0.3010
20	TAO120224	0.4320	0.1518
21	TAO130224	0.3513	0.1310
22	TAO120312	0.3987	0.1464
23	TAO130312	0.1975	0.0701
24	TRT020000	0.5592	0.2727
25	TRT070000	0.6188	0.2510
26	TRT100000	0.5552	0.2039
27	TRT120000	0.0172	0.0037
28	TRT125000	2.6368	2.7414
29	TRT130000	0.4405	0.1514
30	EMPTY	0.0230	0.0578
31	TAF050136	0.6743	0.4830
32	TAF070136	0.7332	0.4539
33	TAF080136	0.2663	0.1049
34	TAF090136	1.8293	1.9295
35	TAF100136	0.7063	0.3627
36	TAF105136	0.7576	0.3788
37	TAF110136	0.6925	0.3336
38	TAF115136	0.7932	0.3702
39	TAF120136	0.2854	0.1123
40	TAF125136	0.8241	0.3655
41	TAF130136	0.8792	0.3818
42	TAF120048	0.8997	0.4054
43	TAF130048	1.5476	0.6450
44	TAF120224	0.7481	0.3487
45	TAF130224	0.6536	0.2930

#	Name	Abs Diff	%Diff
46	EMPTY	0.0827	0.2169
47	EMPTY	0.0137	0.0343
48	TAI130048	0.7745	0.2838
49	TAI130136	0.7822	0.2759
50	TAI130224	0.1473	0.0527
51	TAI130312	0.0960	0.0350
52	TRR130000	0.5540	0.3923
53	TSI000001	0.1502	0.2508
54	TSI000002	0.1985	0.2519
55	TSO000001	0.0043	0.0076
56	TSO000002	0.0592	0.0747
57	TAF020136	0.8593	0.8252
58	TAF120312	0.6993	0.3238
59	TAF130312	0.5452	0.2292
60	EMPTY	0.0148	0.3720
61	EMPTY	0.0141	0.3558
62	EMPTY	0.0153	0.3878
63	EMPTY	0.0152	0.3860
64	EMPTY	0.0065	0.3430
65	EMPTY	0.0058	0.3038
66	EMPTY	0.0059	0.3076
67	EMPTY	0.0054	0.2800
68	EMPTY	0.0058	0.2999
69	EMPTY	0.0067	0.3447
70	EMPTY	0.0058	0.2971
71	EMPTY	0.0050	0.2541
72	EMPTY	0.0050	0.2534
73	EMPTY	0.0067	0.3376
74	EMPTY	0.0048	0.2409
75	EMPTY	0.0057	0.2847
76	EMPTY	0.0066	0.3285
77	EMPTY	0.0056	0.2771
78	EMPTY	0.0052	0.2554
79	EMPTY	0.0057	0.2778
80	PAN020136	0.5630	41.9211
81	PAN050136	2.1668	322.9210
82	PAN070136	3.1403	99.5909
83	PAN080136	3.8360	42.5018
84	PAN090136	0.7645	44.5176
85	PAN100136	0.4837	3.5507
86	PAN105136	1.3886	50.4890
87	PAN110136	0.3891	12.1321
88	PAN115136	0.4303	14.1518
89	PAN120136	0.4044	10.8021
90	PAN125136	0.1053	3.1646
91	PAN130136	0.2594	9.3931
92	PAN120048	0.2854	5.6346
93	PAN130048	1.0117	10.1933
94	PAN120224	0.3219	5.1945
95	PAN130224	0.3540	6.5961
96	PAN120312	0.8820	10.8694
97	PAN130312	0.2639	4.1485
98	PAB000136	0.0366	0.0907
99	PAB100136	0.0742	0.1882
100	PAB125136	0.0485	0.1247

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0220	0.0549
102	PRV000001	0.0097	0.0491
103	PSR000001	0.0025	0.0065
104	PFM000001	0.0074	0.0294
105	PAN000136	0.6775	1.7008
106	PFM000002	0.0195	0.0777
107	EMPTY	0.0000	0.0000
108	EMPTY	0.2438	5.1684
109	EMPTY	0.0003	6.2500
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0118	0.0059
113	VPW000002	0.0351	0.0151
114	VPW000003	0.0313	0.0108
115	VPW000004	0.1015	0.0496
116	VPW000005	0.0665	0.0243
117	VPW000006	0.0899	0.0309
118	IPW000001	11.8314	1.1109
119	IPW000002	40.0398	1.6320
120	IPW000003	6.5122	0.2611
121	IPW000004	0.5762	0.0789
122	IPW000005	3.5054	0.7272
123	IPW000006	3.1055	0.6254
124	EMPTY	0.0019	10.2151
125	EMPTY	0.0003	2.3438
126	EMPTY	0.0022	15.2778
127	EMPTY	0.0009	5.0279
128	IHT000001	0.3945	0.1602
129	IHT000002	0.3007	0.1188
130	IHT000003	0.3477	0.1361
131	IHT000004	0.3438	0.1373
132	IHT000005	0.3516	0.1418
133	IHT000006	0.4179	0.2726
134	IHT000007	0.7031	0.2788
135	IHT000008	0.5742	0.2304
136	IHT000009	0.5703	0.2288
137	IHT000010	0.1524	0.1885
138	IHT000011	0.1289	0.0516
139	IHT000012	0.1172	0.0478
140	IHT000013	0.1133	0.0634
141	IHT000014	0.0117	0.0048
142	IHT000015	0.0195	0.0106
143	IHT000016	0.1016	0.0593
144	IHT000017	0.0352	0.0171
145	IHT000018	0.0508	0.0245
146	IHT000019	0.0156	0.0078
147	IHT000020	0.0312	0.0151
148	IHT000021	0.0742	4.1010
149	IHT000022	0.1016	0.0571
150	IHT000023	0.0976	0.0483
151	IHT000024	0.0664	0.0399
152	IHT000025	0.0742	0.0369
153	IHT000026	0.0235	0.0115
154	IHT000027	0.1328	0.0763
155	IHT000028	0.0078	0.0044

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1055	0.0520
157	IHT000030	0.1055	0.0510
158	IHT000031	0.0039	0.0019
159	IHT000032	0.0117	0.0057
160	IHT000033	0.0235	0.0114
161	IHT000034	0.0821	0.0453
162	IHT000035	0.0313	0.0131
163	IHT000036	0.1055	0.0589

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sum1

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Velocity 1 = 12.5996 (ft/sec) (+/- 1.9629 %)

Velocity 2 = 12.5906 (ft/sec) (+/- 1.7123 %)

Pressure drop = 1.4388 (psi)

Tsat in = 267.9178 (deg F) Tsat out = 265.7716 (deg F)

Phi inner = 374.6482 (kBtu/hr-ft2) (+/- 1.2160 %)

Phi outer = 374.0083 (kBtu/hr-ft2) (+/- 1.2313 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.5519	83.1877	82.9419	1.5052e-01	1.9001e+00
1	TRF000002	82.8929	83.3145	83.1459	1.1268e-01	1.9001e+00
2	TFM000001	86.1792	86.9137	86.5571	1.8727e-01	1.9002e+00
3	TIN000001	85.7331	86.3653	86.0031	1.2074e-01	1.9002e+00
4	TRV000001	87.7480	88.5855	88.1665	2.2159e-01	1.9002e+00
5	TSR000001	165.6234	170.8314	168.2188	1.6034e+00	1.9065e+00
6	TAO020136	116.2883	120.7046	118.5946	8.4208e-01	1.9016e+00
7	TAO050136	206.3888	208.1092	207.3599	3.3710e-01	1.9127e+00
8	TAO070136	204.9533	206.7892	205.9392	5.2079e-01	1.9124e+00
9	TAO080136	247.9065	249.4857	248.8910	3.3530e-01	1.9214e+00
10	TAO090136	261.1841	263.1290	262.3589	4.0405e-01	1.9248e+00
11	TAO100136	255.7062	257.7520	256.7256	4.6801e-01	1.9233e+00
12	TAO105136	261.3242	262.5333	261.7484	2.5831e-01	1.9246e+00
13	TAO110136	94.9186	95.5419	95.2799	1.6156e-01	1.9004e+00
14	TAO115136	263.3014	264.6933	263.9548	2.7162e-01	1.9252e+00
15	TAO120136	289.7070	290.4389	290.0108	1.6780e-01	1.9323e+00
16	TAO125136	266.8759	268.0773	267.5160	2.3441e-01	1.9261e+00
17	TAO130136	279.3300	280.5079	279.8962	2.1720e-01	1.9295e+00
18	TAO120048	120.8027	121.7229	121.3013	2.6565e-01	1.9018e+00
19	TAO130048	292.5525	293.2805	292.9888	1.5815e-01	1.9332e+00
20	TAO120224	285.3298	286.7940	285.9848	3.1119e-01	1.9312e+00
21	TAO130224	268.8270	270.1102	269.4433	2.5987e-01	1.9266e+00
22	TAO120312	273.0116	274.4884	273.7316	4.0195e-01	1.9278e+00
23	TAO130312	282.2217	283.0467	282.6176	1.8443e-01	1.9302e+00
24	TRT020000	206.9425	207.9061	207.4744	2.5092e-01	1.9127e+00
25	TRT070000	248.9647	251.0356	250.0116	4.2968e-01	1.9217e+00
26	TRT100000	275.4822	276.9514	276.2428	3.4696e-01	1.9284e+00
27	TRT120000	458.0898	458.4323	458.2647	7.1182e-02	1.9990e+00
28	TRT125000	96.8943	97.5178	97.2764	1.6969e-01	1.9005e+00
29	TRT130000	288.2960	289.8459	288.9712	3.8927e-01	1.9320e+00
30	EMPTY	39.3761	40.0646	39.8030	1.9678e-01	1.9011e+00
31	TAF050136	139.7678	142.2757	141.1370	4.9497e-01	1.9034e+00
32	TAF070136	162.0606	164.5219	163.1364	4.3764e-01	1.9058e+00
33	TAF080136	254.3315	256.1808	255.1384	4.6599e-01	1.9230e+00
34	TAF090136	94.9596	96.0030	95.5313	2.7882e-01	1.9004e+00
35	TAF100136	195.7432	197.1004	196.4449	3.1182e-01	1.9107e+00
36	TAF105136	201.3548	202.5041	201.9055	2.4868e-01	1.9117e+00
37	TAF110136	209.0636	210.0197	209.4692	2.4093e-01	1.9131e+00
38	TAF115136	215.4589	216.8884	216.2446	2.5442e-01	1.9144e+00
39	TAF120136	254.2733	255.8495	255.0822	3.4904e-01	1.9229e+00
40	TAF125136	226.8463	228.2571	227.5842	3.3194e-01	1.9167e+00
41	TAF130136	232.5327	233.6632	233.1123	2.4489e-01	1.9178e+00
42	TAF120048	226.7182	228.6265	227.6079	4.1882e-01	1.9167e+00
43	TAF130048	255.0439	257.9282	256.4136	6.8286e-01	1.9233e+00
44	TAF120224	215.9106	217.3412	216.7691	2.9605e-01	1.9145e+00
45	TAF130224	224.6312	225.9673	225.2382	2.5921e-01	1.9162e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0802	2.1165e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.9637	1.2405e-01	1.9011e+00
48	TAI130048	272.9668	273.9805	273.4202	2.7173e-01	1.9277e+00
49	TAI130136	286.0656	286.7973	286.3766	1.6198e-01	1.9313e+00
50	TAI130224	279.4695	280.7590	280.1659	3.2711e-01	1.9295e+00
51	TAI130312	274.2707	275.4699	274.7576	3.1078e-01	1.9280e+00
52	TRR130000	140.7711	142.4771	141.3453	4.3128e-01	1.9034e+00
53	TSI000001	59.5174	60.3762	59.9768	1.7617e-01	1.9001e+00
54	TSI000002	78.9791	80.2462	79.4524	2.9095e-01	1.9001e+00
55	TSO000001	56.4543	57.2117	56.7748	2.2186e-01	1.9001e+00
56	TSO000002	79.1567	80.0031	79.6261	2.0174e-01	1.9001e+00
57	TAF020136	103.3641	106.2832	105.2620	5.9486e-01	1.9008e+00
58	TAF120312	217.4273	219.5268	218.5381	4.7953e-01	1.9148e+00
59	TAF130312	238.9112	240.6959	239.8659	4.0133e-01	1.9193e+00
60	EMPTY	4.0234	4.0479	4.0339	5.4934e-03	0.0000e+00
61	EMPTY	4.0088	4.0234	4.0169	3.8975e-03	0.0000e+00
62	EMPTY	3.9893	4.0088	4.0001	3.3146e-03	0.0000e+00
63	EMPTY	3.9893	3.9990	3.9918	2.8317e-03	0.0000e+00
64	EMPTY	1.9141	1.9238	1.9191	1.9631e-03	0.0000e+00
65	EMPTY	1.9287	1.9385	1.9322	2.4244e-03	0.0000e+00
66	EMPTY	1.9385	1.9434	1.9392	1.7115e-03	0.0000e+00
67	EMPTY	1.9482	1.9531	1.9498	2.3008e-03	0.0000e+00
68	EMPTY	1.9531	1.9629	1.9561	2.6100e-03	0.0000e+00
69	EMPTY	1.9580	1.9727	1.9668	2.4164e-03	0.0000e+00
70	EMPTY	1.9678	1.9727	1.9726	6.9053e-04	0.0000e+00
71	EMPTY	1.9873	1.9922	1.9876	1.1714e-03	0.0000e+00
72	EMPTY	1.9873	1.9971	1.9934	2.3261e-03	0.0000e+00
73	EMPTY	2.0020	2.0068	2.0067	6.9053e-04	0.0000e+00
74	EMPTY	2.0117	2.0166	2.0130	2.1635e-03	0.0000e+00
75	EMPTY	2.0215	2.0264	2.0233	2.3941e-03	0.0000e+00
76	EMPTY	2.0264	2.0361	2.0309	1.6624e-03	0.0000e+00
77	EMPTY	2.0410	2.0459	2.0418	1.8082e-03	0.0000e+00
78	EMPTY	2.0508	2.0605	2.0560	1.5314e-03	0.0000e+00
79	EMPTY	2.0703	2.0752	2.0723	2.4164e-03	0.0000e+00
80	PAN020136	-10.2908	8.9353	-0.5053	3.6994e+00	8.7000e-01
81	PAN050136	-11.4010	8.1303	-0.4787	4.2779e+00	1.6800e+00
82	PAN070136	-24.6544	5.5580	-7.4791	7.2801e+00	8.7020e-01
83	PAN080136	3.2866	36.9323	14.7765	7.8619e+00	8.7078e-01
84	PAN090136	-8.9028	11.3151	2.8403	4.5080e+00	8.7003e-01
85	PAN100136	6.8827	19.4712	12.5239	3.0322e+00	8.7056e-01
86	PAN105136	-2.6666	4.7339	1.1969	1.4881e+00	8.7001e-01
87	PAN110136	1.6279	5.9767	3.1553	9.5185e-01	8.7004e-01
88	PAN115136	0.1460	3.5030	2.5722	5.2588e-01	8.7002e-01
89	PAN120136	2.5596	5.3062	3.5255	4.7323e-01	8.7004e-01
90	PAN125136	2.6652	4.0385	3.2008	3.0885e-01	8.7004e-01
91	PAN130136	3.7672	4.4538	4.0494	1.6832e-01	8.7006e-01
92	PAN120048	0.9406	2.6954	1.8806	4.8851e-01	8.7001e-01
93	PAN130048	19.9364	21.9963	21.0182	4.7250e-01	8.7159e-01
94	PAN120224	4.3430	6.4029	5.3348	5.0982e-01	8.7010e-01
95	PAN130224	6.4837	7.6281	6.9812	2.8640e-01	8.7018e-01
96	PAN120312	11.3753	17.7840	12.9714	9.8513e-01	8.7060e-01
97	PAN130312	7.9405	9.3901	8.7050	3.7519e-01	8.7027e-01
98	PAB000136	39.9076	40.8689	40.3700	1.9493e-01	5.8872e-01
99	PAB100136	39.2237	39.5441	39.3500	7.5451e-02	5.8828e-01
100	PAB125136	38.8521	39.0352	38.9410	4.7527e-02	5.8811e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4704	40.6911	40.1150	3.2907e-01	7.5668e-01
102	PRV000001	19.5965	19.7186	19.6478	6.0861e-02	7.5161e-01
103	PSR000001	38.1017	38.3458	38.2115	6.6404e-02	7.5606e-01
104	PFM000001	24.0713	24.6206	24.3002	1.2304e-01	5.0368e-01
105	PAN000136	29.3412	49.0251	39.8332	4.1779e+00	4.9210e+00
106	PFM000002	24.1458	24.4143	24.2653	6.8277e-02	2.0900e-01
107	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
108	EMPTY	-9.2188	-0.9180	-4.2775	1.5727e+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	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	198.8995	199.2901	199.1338	1.1161e-01	1.4435e+00
113	VPW000002	232.9139	233.3046	233.1679	9.8648e-02	1.6166e+00
114	VPW000003	289.2240	289.8099	289.4895	1.2327e-01	1.9165e+00
115	VPW000004	204.4734	205.2546	204.8251	1.6269e-01	1.4719e+00
116	VPW000005	273.0506	273.4413	273.2773	1.0705e-01	1.8288e+00
117	VPW000006	291.0344	291.4250	291.1788	1.2359e-01	1.9257e+00
118	IPW000001	1056.9689	1062.8259	1058.9215	1.5777e+00	1.1644e+01
119	IPW000002	2453.5713	2461.3765	2457.1616	1.5945e+00	2.1034e+01
120	IPW000003	2501.8499	2509.6499	2506.6868	1.5877e+00	2.1395e+01
121	IPW000004	725.8958	727.3606	726.5405	4.7760e-01	6.0781e+00
122	IPW000005	481.0779	482.0544	481.5467	3.2654e-01	4.2979e+00
123	IPW000006	495.1548	496.1313	495.6916	3.7239e-01	4.3971e+00
124	EMPTY	-0.0244	-0.0098	-0.0187	4.1491e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0128	2.9413e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0144	3.4751e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0177	3.1023e-03	0.0000e+00
128	IHT000001	244.5387	247.2731	245.7536	6.0912e-01	4.7801e+00
129	IHT000002	251.7127	254.0565	252.7519	5.4454e-01	4.8165e+00
130	IHT000003	253.7936	256.1373	254.9343	5.7502e-01	4.8280e+00
131	IHT000004	248.7643	251.1080	249.9323	5.9253e-01	4.8017e+00
132	IHT000005	246.4543	248.6028	247.5362	5.5272e-01	4.7893e+00
133	IHT000006	240.4034	243.1378	241.6807	5.8289e-01	4.7593e+00
134	IHT000007	250.5259	252.8696	251.4241	5.5243e-01	4.8095e+00
135	IHT000008	247.7389	249.8873	248.6999	5.0043e-01	4.7953e+00
136	IHT000009	247.7276	249.8760	248.6768	5.3526e-01	4.7952e+00
137	IHT000010	79.4283	81.9674	80.7056	6.0901e-01	4.1787e+00
138	IHT000011	248.4713	251.0103	249.6394	5.7248e-01	4.8002e+00
139	IHT000012	244.1331	246.4769	245.2073	5.4426e-01	4.7773e+00
140	IHT000013	177.3438	179.8828	178.6016	5.6381e-01	4.4721e+00
141	IHT000014	244.9444	247.6788	246.3037	5.7176e-01	4.7829e+00
142	IHT000015	182.9026	186.0276	184.2581	6.5365e-01	4.4950e+00
143	IHT000016	169.9669	173.0919	171.3966	6.5962e-01	4.4438e+00
144	IHT000017	204.2894	207.2191	205.6565	7.4137e-01	4.5869e+00
145	IHT000018	205.7918	208.7215	207.4403	6.8930e-01	4.5949e+00
146	IHT000019	199.3765	202.8921	200.8219	6.3748e-01	4.5654e+00
147	IHT000020	205.6115	208.9318	206.9669	6.3676e-01	4.5928e+00
148	IHT000021	-3.3992	0.5071	-1.5984	7.3746e-01	4.1000e+00
149	IHT000022	176.6489	179.5786	177.9887	5.9190e-01	4.4697e+00
150	IHT000023	201.0442	203.5833	202.2862	5.3344e-01	4.5719e+00
151	IHT000024	165.4710	167.6195	166.5102	5.0291e-01	4.4252e+00
152	IHT000025	200.2517	202.2048	201.2439	5.5079e-01	4.5673e+00
153	IHT000026	202.7870	204.9354	203.9472	5.5861e-01	4.5792e+00
154	IHT000027	173.1971	175.3456	174.1698	5.4461e-01	4.4546e+00
155	IHT000028	175.3192	178.4442	176.8701	6.8164e-01	4.4652e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.2996	204.2293	202.7880	6.0988e-01	4.5741e+00
157	IHT000030	204.8640	208.1844	206.6376	6.3361e-01	4.5913e+00
158	IHT000031	201.9306	205.2509	203.4580	6.3343e-01	4.5771e+00
159	IHT000032	204.5936	207.7186	206.0624	6.1667e-01	4.5887e+00
160	IHT000033	204.4208	207.5458	205.9873	6.0166e-01	4.5884e+00
161	IHT000034	180.2659	182.6097	181.2894	4.8417e-01	4.4829e+00
162	IHT000035	237.5902	239.9339	238.7464	5.2473e-01	4.7445e+00
163	IHT000036	178.1513	180.4950	179.2334	5.2528e-01	4.4746e+00

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sum2

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Velocity 1 = 12.6644 (ft/sec) (+/- 1.9574 %)
Velocity 2 = 12.6472 (ft/sec) (+/- 1.7116 %)
Pressure drop = 1.5462 (psi)
Tsat in = 267.3156 (deg F) Tsat out = 265.0424 (deg F)
Phi inner = 373.6455 (kBtu/hr-ft2) (+/- 1.2163 %)
Phi outer = 374.3801 (kBtu/hr-ft2) (+/- 1.2311 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	82.5519	83.3996	82.8783	1.8765e-01	1.9001e+00
1	TRF0000002	82.8929	83.3145	83.1332	1.4132e-01	1.9001e+00
2	TFM0000001	86.0730	87.0188	86.5275	2.1053e-01	1.9002e+00
3	TIN0000001	85.6279	86.2609	85.9650	1.3968e-01	1.9002e+00
4	TRV0000001	87.8510	88.5855	88.1745	1.9367e-01	1.9002e+00
5	TSR0000001	168.2782	172.4966	171.3597	8.7545e-01	1.9069e+00
6	TAO020136	151.3017	153.8038	152.6671	6.2595e-01	1.9046e+00
7	TAO050136	205.9106	207.7271	206.7371	3.3288e-01	1.9126e+00
8	TAO070136	204.2771	206.7888	205.3943	5.3857e-01	1.9123e+00
9	TAO080136	247.0665	248.5588	247.8607	3.5192e-01	1.9212e+00
10	TAO090136	260.7201	262.2045	261.4920	3.5445e-01	1.9245e+00
11	TAO100136	254.8684	256.9166	255.9110	4.6540e-01	1.9231e+00
12	TAO105136	260.4873	261.7899	261.0901	3.0317e-01	1.9244e+00
13	TAO110136	94.9191	95.5419	95.2504	1.6009e-01	1.9004e+00
14	TAO115136	262.5586	263.8584	263.2200	3.2134e-01	1.9250e+00
15	TAO120136	288.8839	289.7076	289.2832	1.6924e-01	1.9321e+00
16	TAO125136	268.7216	269.8297	269.2127	2.0395e-01	1.9266e+00
17	TAO130136	278.7863	279.7878	279.1569	2.0767e-01	1.9292e+00
18	TAO120048	120.8015	122.0294	121.3788	2.7685e-01	1.9018e+00
19	TAO130048	291.9151	293.0071	292.4944	2.4503e-01	1.9331e+00
20	TAO120224	284.6886	286.5188	285.3295	3.8214e-01	1.9310e+00
21	TAO130224	268.0976	269.4718	268.6595	2.8655e-01	1.9264e+00
22	TAO120312	271.9039	274.2108	272.9454	5.0621e-01	1.9275e+00
23	TAO130312	281.3976	282.3151	281.7757	2.0664e-01	1.9300e+00
24	TRT020000	206.2683	207.7135	207.1006	3.1547e-01	1.9126e+00
25	TRT070000	248.6823	250.5649	249.5259	4.3039e-01	1.9216e+00
26	TRT100000	274.9318	276.5850	275.8204	3.3667e-01	1.9283e+00
27	TRT120000	458.0898	458.4326	458.2338	9.5363e-02	1.9990e+00
28	TRT125000	98.0320	98.8632	98.3975	2.1089e-01	1.9005e+00
29	TRT130000	286.8367	288.8433	287.8951	4.7703e-01	1.9317e+00
30	EMPTY	39.3761	40.2940	39.8122	1.9808e-01	1.9011e+00
31	TAF050136	139.3667	141.9756	140.7836	5.7777e-01	1.9034e+00
32	TAF070136	161.9609	163.8354	162.8051	3.7499e-01	1.9058e+00
33	TAF080136	252.4806	255.7179	254.4646	6.5598e-01	1.9228e+00
34	TAF090136	94.4375	95.7946	95.1934	3.4148e-01	1.9004e+00
35	TAF100136	195.4514	196.8101	196.1152	3.1423e-01	1.9107e+00
36	TAF105136	200.7810	202.3103	201.5188	3.4213e-01	1.9116e+00
37	TAF110136	208.3938	209.9245	209.0713	3.1571e-01	1.9130e+00
38	TAF115136	215.2683	216.5091	215.8595	3.2523e-01	1.9143e+00
39	TAF120136	253.6226	255.2015	254.4070	3.4402e-01	1.9228e+00
40	TAF125136	226.4697	227.7886	227.1175	3.5533e-01	1.9166e+00
41	TAF130136	232.2476	233.2860	232.7314	2.7847e-01	1.9178e+00
42	TAF120048	226.2416	228.4357	227.2492	4.7642e-01	1.9166e+00
43	TAF130048	254.4840	258.3922	256.2124	8.9339e-01	1.9232e+00
44	TAF120224	215.5282	216.9597	216.2807	3.8280e-01	1.9144e+00
45	TAF130224	224.0587	225.1085	224.6463	2.6392e-01	1.9160e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1216	1.9271e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	39.9499	1.2482e-01	1.9011e+00
48	TAI130048	272.3204	273.6120	272.7712	2.9912e-01	1.9275e+00
49	TAI130136	285.1531	286.3413	285.7374	2.6247e-01	1.9311e+00
50	TAI130224	278.8244	280.1144	279.4365	3.3226e-01	1.9293e+00
51	TAI130312	273.1624	274.5478	273.8644	2.8354e-01	1.9278e+00
52	TRR130000	141.0717	142.5759	141.5857	3.2486e-01	1.9034e+00
53	TSI000001	59.4094	60.0557	59.7450	1.7854e-01	1.9001e+00
54	TSI000002	76.3375	77.5025	76.9349	2.8340e-01	1.9000e+00
55	TSO000001	56.3461	57.2122	56.7748	2.4040e-01	1.9001e+00
56	TSO000002	79.2615	80.0026	79.5752	1.5710e-01	1.9001e+00
57	TAF020136	103.4686	106.6994	105.2287	6.7996e-01	1.9008e+00
58	TAF120312	216.6633	219.8133	217.9921	5.6875e-01	1.9147e+00
59	TAF130312	238.5368	239.9459	239.1896	3.2597e-01	1.9192e+00
60	EMPTY	4.0088	4.0283	4.0166	4.5206e-03	0.0000e+00
61	EMPTY	3.9893	4.0088	3.9996	4.0241e-03	0.0000e+00
62	EMPTY	3.9795	3.9893	3.9833	3.1644e-03	0.0000e+00
63	EMPTY	3.9697	3.9795	3.9765	2.9413e-03	0.0000e+00
64	EMPTY	1.9092	1.9141	1.9131	1.9730e-03	0.0000e+00
65	EMPTY	1.9238	1.9287	1.9271	2.3008e-03	0.0000e+00
66	EMPTY	1.9336	1.9385	1.9340	1.3381e-03	0.0000e+00
67	EMPTY	1.9434	1.9482	1.9451	2.3675e-03	0.0000e+00
68	EMPTY	1.9482	1.9531	1.9509	2.4583e-03	0.0000e+00
69	EMPTY	1.9580	1.9629	1.9615	2.2146e-03	0.0000e+00
70	EMPTY	1.9629	1.9727	1.9678	9.8648e-04	0.0000e+00
71	EMPTY	1.9824	1.9873	1.9828	1.3381e-03	0.0000e+00
72	EMPTY	1.9873	1.9922	1.9882	1.8950e-03	0.0000e+00
73	EMPTY	1.9971	2.0068	2.0020	1.3951e-03	0.0000e+00
74	EMPTY	2.0068	2.0117	2.0085	2.3365e-03	0.0000e+00
75	EMPTY	2.0166	2.0215	2.0190	2.4662e-03	0.0000e+00
76	EMPTY	2.0215	2.0264	2.0262	9.6655e-04	0.0000e+00
77	EMPTY	2.0361	2.0410	2.0366	1.4797e-03	0.0000e+00
78	EMPTY	2.0508	2.0557	2.0516	1.8082e-03	0.0000e+00
79	EMPTY	2.0654	2.0703	2.0684	2.4164e-03	0.0000e+00
80	PAN020136	-8.7649	6.2650	-1.1202	3.9517e+00	8.7000e-01
81	PAN050136	-9.1122	7.9777	-0.8266	3.6383e+00	1.6800e+00
82	PAN070136	-24.5781	11.5852	-5.0560	7.8088e+00	8.7009e-01
83	PAN080136	-0.4518	34.8723	11.7232	7.4339e+00	8.7049e-01
84	PAN090136	-3.5622	13.7565	4.9079	3.9389e+00	8.7009e-01
85	PAN100136	6.3487	19.3949	12.5712	2.9911e+00	8.7057e-01
86	PAN105136	-2.2851	4.9628	1.3190	1.3343e+00	8.7001e-01
87	PAN110136	1.6279	7.9603	3.6482	1.2769e+00	8.7005e-01
88	PAN115136	1.6719	3.5030	2.4455	4.8645e-01	8.7002e-01
89	PAN120136	2.3307	4.6958	3.7391	5.2615e-01	8.7005e-01
90	PAN125136	2.8941	4.4200	3.4693	3.4850e-01	8.7004e-01
91	PAN130136	4.1486	4.6064	4.3684	1.1183e-01	8.7007e-01
92	PAN120048	1.1695	22.0741	3.1364	3.4781e+00	8.7004e-01
93	PAN130048	20.3941	24.5140	21.9475	1.1684e+00	8.7173e-01
94	PAN120224	2.8934	10.9043	5.5072	1.2959e+00	8.7011e-01
95	PAN130224	7.1704	10.9851	7.8601	6.8707e-01	8.7022e-01
96	PAN120312	11.9857	15.1137	13.3864	7.4494e-01	8.7064e-01
97	PAN130312	8.2457	10.0005	9.2070	3.8657e-01	8.7030e-01
98	PAB000136	39.5414	40.5485	39.9644	2.0979e-01	5.8854e-01
99	PAB100136	38.7659	39.0863	38.9206	7.3341e-02	5.8811e-01
100	PAB125136	38.3944	38.5775	38.4658	5.1625e-02	5.8792e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	38.8601	40.5690	39.6364	4.0879e-01	7.5652e-01
102	PRV0000001	19.7186	19.8406	19.8333	2.9284e-02	7.5164e-01
103	PSR0000001	37.6134	37.8575	37.7379	3.8916e-02	7.5591e-01
104	PFM0000001	24.1629	24.9868	24.5529	2.1635e-01	5.0375e-01
105	PAN000136	33.0034	54.9760	42.8087	4.8287e+00	4.9212e+00
106	PFM0000002	24.2800	24.7834	24.4857	1.3774e-01	2.0916e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-0.3516	-5.3314	2.9847e+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	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	198.8995	199.2901	199.1104	1.1732e-01	1.4434e+00
113	VPW0000002	233.1092	233.6952	233.2773	1.1844e-01	1.6171e+00
114	VPW0000003	289.2240	289.6146	289.4192	1.3669e-01	1.9161e+00
115	VPW0000004	204.6687	205.0593	204.8173	1.0106e-01	1.4718e+00
116	VPW0000005	273.0506	273.4413	273.2421	1.0799e-01	1.8286e+00
117	VPW0000006	291.0344	291.4250	291.1749	1.0470e-01	1.9257e+00
118	IPW0000001	1062.8259	1068.6829	1065.0121	1.2246e+00	1.1679e+01
119	IPW0000002	2453.5713	2457.4739	2455.4446	1.3633e+00	2.1021e+01
120	IPW0000003	2495.9998	2501.8499	2499.1980	1.2308e+00	2.1341e+01
121	IPW0000004	725.8958	727.3606	726.6870	3.5417e-01	6.0792e+00
122	IPW0000005	480.5897	482.0544	481.5272	3.7997e-01	4.2978e+00
123	IPW0000006	495.1548	496.6196	495.7502	3.4583e-01	4.3975e+00
124	EMPTY	-0.0244	-0.0098	-0.0198	4.3461e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0132	3.0003e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0153	3.2733e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0174	3.4400e-03	0.0000e+00
128	IHT0000001	244.7341	247.0778	246.0388	5.8983e-01	4.7816e+00
129	IHT0000002	251.9080	254.0565	252.9980	5.2953e-01	4.8178e+00
130	IHT0000003	254.1842	256.3326	255.2819	5.3217e-01	4.8298e+00
131	IHT0000004	249.3502	251.3033	250.2722	5.6640e-01	4.8035e+00
132	IHT0000005	246.8449	248.9934	247.7979	5.0012e-01	4.7907e+00
133	IHT0000006	240.7940	243.1378	241.8955	5.3198e-01	4.7604e+00
134	IHT0000007	250.7212	252.8696	251.8265	5.4621e-01	4.8116e+00
135	IHT0000008	248.1295	249.8873	248.9069	4.8083e-01	4.7964e+00
136	IHT0000009	247.9229	249.8760	248.9229	4.9227e-01	4.7965e+00
137	IHT0000010	79.0377	81.9674	80.3345	6.3596e-01	4.1780e+00
138	IHT0000011	248.0807	250.8150	249.4089	5.9712e-01	4.7990e+00
139	IHT0000012	243.5472	246.4769	245.0628	6.3694e-01	4.7766e+00
140	IHT0000013	176.7578	179.8828	178.4414	6.6602e-01	4.4715e+00
141	IHT0000014	244.5538	247.2882	246.1709	6.4602e-01	4.7823e+00
142	IHT0000015	182.7073	185.4417	184.0824	5.8522e-01	4.4943e+00
143	IHT0000016	169.7716	172.5060	171.2364	5.7892e-01	4.4432e+00
144	IHT0000017	204.2894	206.8284	205.4261	5.9541e-01	4.5858e+00
145	IHT0000018	206.1824	208.7215	207.3466	5.9577e-01	4.5945e+00
146	IHT0000019	199.7671	202.3062	200.8922	5.5462e-01	4.5657e+00
147	IHT0000020	206.0021	207.9552	207.0255	5.3461e-01	4.5930e+00
148	IHT0000021	-3.2039	-0.6648	-1.6062	6.4197e-01	4.1000e+00
149	IHT0000022	176.8442	179.1879	178.1293	5.2806e-01	4.4702e+00
150	IHT0000023	201.0442	203.3879	202.4268	5.8373e-01	4.5725e+00
151	IHT0000024	165.2757	167.8148	166.6391	5.3305e-01	4.4257e+00
152	IHT0000025	200.0564	202.7907	201.3181	5.4277e-01	4.5676e+00
153	IHT0000026	202.5917	205.1307	204.0214	5.6832e-01	4.5796e+00
154	IHT0000027	172.8065	175.5409	174.1737	5.8793e-01	4.4546e+00
155	IHT0000028	175.1239	178.6396	176.7841	7.1925e-01	4.4649e+00

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sum2

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.1043	204.6199	202.7255	7.4686e-01	4.5738e+00
157	IHT000030	205.0594	208.3797	206.5595	7.6355e-01	4.5909e+00
158	IHT000031	201.9306	205.0556	203.4033	7.3420e-01	4.5768e+00
159	IHT000032	204.3983	207.9139	206.0624	7.9727e-01	4.5887e+00
160	IHT000033	204.2255	207.7411	205.9951	7.7966e-01	4.5884e+00
161	IHT000034	179.8753	182.6097	181.2699	5.8262e-01	4.4828e+00
162	IHT000035	237.1995	240.3245	238.7073	6.0880e-01	4.7443e+00
163	IHT000036	177.7607	180.4950	179.1435	5.4796e-01	4.4743e+00

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Velocity 1 = 0.064800 (ft/sec)

Velocity 2 = 0.056600 (ft/sec)

Pressure Drop = 0.107400 (psi)

Tsat in = 0.602173 (deg F) Tsat out = 0.729218 (deg F)

Phi inner = 1.002686 (kBtu/hr-ft2) Phi outer = 0.371796 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0636	0.0767
1	TRF000002	0.0127	0.0153
2	TFM000001	0.0296	0.0342
3	TIN000001	0.0381	0.0443
4	TRV000001	0.0080	0.0091
5	TSR000001	3.1409	1.8672
6	TAO020136	34.0725	28.7302
7	TAO050136	0.6228	0.3003
8	TAO070136	0.5449	0.2646
9	TAO080136	1.0303	0.4140
10	TAO090136	0.8669	0.3304
11	TAO100136	0.8146	0.3173
12	TAO105136	0.6583	0.2515
13	TAO110136	0.0295	0.0310
14	TAO115136	0.7348	0.2784
15	TAO120136	0.7276	0.2509
16	TAO125136	1.6967	0.6342
17	TAO130136	0.7393	0.2641
18	TAO120048	0.0775	0.0639
19	TAO130048	0.4944	0.1687
20	TAO120224	0.6553	0.2291
21	TAO130224	0.7838	0.2909
22	TAO120312	0.7862	0.2872
23	TAO130312	0.8419	0.2979
24	TRT020000	0.3738	0.1802
25	TRT070000	0.4857	0.1943
26	TRT100000	0.4224	0.1529
27	TRT120000	0.0309	0.0067
28	TRT125000	1.1211	1.1525
29	TRT130000	1.0761	0.3724
30	EMPTY	0.0092	0.0231
31	TAF050136	0.3534	0.2504
32	TAF070136	0.3313	0.2031
33	TAF080136	0.6738	0.2641
34	TAF090136	0.3379	0.3537
35	TAF100136	0.3297	0.1678
36	TAF105136	0.3867	0.1915
37	TAF110136	0.3979	0.1900
38	TAF115136	0.3851	0.1781
39	TAF120136	0.6752	0.2647
40	TAF125136	0.4667	0.2051
41	TAF130136	0.3809	0.1634
42	TAF120048	0.3587	0.1576
43	TAF130048	0.2012	0.0785
44	TAF120224	0.4884	0.2253
45	TAF130224	0.5919	0.2628

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dif

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#	Name	Abs Diff	%Diff
46	EMPTY	0.0414	0.1087
47	EMPTY	0.0138	0.0345
48	TAI130048	0.6490	0.2374
49	TAI130136	0.6392	0.2232
50	TAI130224	0.7294	0.2603
51	TAI130312	0.8932	0.3251
52	TRR130000	0.2404	0.1701
53	TSI000001	0.2318	0.3865
54	TSI000002	2.5175	3.1686
55	TSO000001	0.0000	0.0000
56	TSO000002	0.0509	0.0639
57	TAF020136	0.0333	0.0316
58	TAF120312	0.5460	0.2498
59	TAF130312	0.6763	0.2819
60	EMPTY	0.0173	0.4289
61	EMPTY	0.0173	0.4307
62	EMPTY	0.0168	0.4200
63	EMPTY	0.0153	0.3833
64	EMPTY	0.0060	0.3126
65	EMPTY	0.0051	0.2639
66	EMPTY	0.0052	0.2682
67	EMPTY	0.0047	0.2411
68	EMPTY	0.0052	0.2658
69	EMPTY	0.0053	0.2695
70	EMPTY	0.0048	0.2433
71	EMPTY	0.0048	0.2415
72	EMPTY	0.0052	0.2609
73	EMPTY	0.0047	0.2342
74	EMPTY	0.0045	0.2235
75	EMPTY	0.0043	0.2125
76	EMPTY	0.0047	0.2314
77	EMPTY	0.0052	0.2547
78	EMPTY	0.0044	0.2140
79	EMPTY	0.0039	0.1882
80	PAN020136	0.6149	121.6901
81	PAN050136	0.3479	72.6760
82	PAN070136	2.4231	32.3983
83	PAN080136	3.0533	20.6632
84	PAN090136	2.0676	72.7951
85	PAN100136	0.0473	0.3777
86	PAN105136	0.1221	10.2014
87	PAN110136	0.4929	15.6213
88	PAN115136	0.1267	4.9258
89	PAN120136	0.2136	6.0587
90	PAN125136	0.2685	8.3885
91	PAN130136	0.3190	7.8777
92	PAN120048	1.2558	66.7766
93	PAN130048	0.9293	4.4214
94	PAN120224	0.1724	3.2316
95	PAN130224	0.8789	12.5895
96	PAN120312	0.4150	3.1993
97	PAN130312	0.5020	5.7668
98	PAB000136	0.4056	1.0047
99	PAB100136	0.4294	1.0912
100	PAB125136	0.4752	1.2203

#	Name	Abs Diff	%Diff
101	PIN000001	0.4786	1.1931
102	PRV000001	0.1855	0.9441
103	PSR000001	0.4736	1.2394
104	PFM000001	0.2527	1.0399
105	PAN000136	2.9755	7.4699
106	PFM000002	0.2204	0.9083
107	EMPTY	0.0005	9.0909
108	EMPTY	1.0539	24.6382
109	EMPTY	0.0002	4.2553
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	200.0000
112	VPW000001	0.0234	0.0118
113	VPW000002	0.1094	0.0469
114	VPW000003	0.0703	0.0243
115	VPW000004	0.0078	0.0038
116	VPW000005	0.0352	0.0129
117	VPW000006	0.0039	0.0013
118	IPW000001	6.0906	0.5752
119	IPW000002	1.7170	0.0699
120	IPW000003	7.4888	0.2988
121	IPW000004	0.1465	0.0202
122	IPW000005	0.0195	0.0040
123	IPW000006	0.0586	0.0118
124	EMPTY	0.0011	5.8824
125	EMPTY	0.0004	3.1250
126	EMPTY	0.0009	6.2500
127	EMPTY	0.0003	1.6949
128	IHT000001	0.2852	0.1161
129	IHT000002	0.2461	0.0974
130	IHT000003	0.3476	0.1364
131	IHT000004	0.3399	0.1360
132	IHT000005	0.2617	0.1057
133	IHT000006	0.2148	0.0889
134	IHT000007	0.4024	0.1601
135	IHT000008	0.2070	0.0832
136	IHT000009	0.2461	0.0990
137	IHT000010	0.3711	0.4598
138	IHT000011	0.2305	0.0923
139	IHT000012	0.1445	0.0589
140	IHT000013	0.1602	0.0897
141	IHT000014	0.1328	0.0539
142	IHT000015	0.1757	0.0954
143	IHT000016	0.1602	0.0935
144	IHT000017	0.2304	0.1120
145	IHT000018	0.0937	0.0452
146	IHT000019	0.0703	0.0350
147	IHT000020	0.0586	0.0283
148	IHT000021	0.0078	0.4880
149	IHT000022	0.1406	0.0790
150	IHT000023	0.1406	0.0695
151	IHT000024	0.1289	0.0774
152	IHT000025	0.0742	0.0369
153	IHT000026	0.0742	0.0364
154	IHT000027	0.0039	0.0022
155	IHT000028	0.0860	0.0486

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0625	0.0308
157	IHT000030	0.0781	0.0378
158	IHT000031	0.0547	0.0269
159	IHT000032	0.0000	0.0000
160	IHT000033	0.0078	0.0038
161	IHT000034	0.0195	0.0108
162	IHT000035	0.0391	0.0164
163	IHT000036	0.0899	0.0502

Velocity 1 = 12.7025 (ft/sec) (+/- 1.9542 %)
 Velocity 2 = 12.6814 (ft/sec) (+/- 1.7112 %)
 Pressure drop = 1.4695 (psi)
 Tsat in = 267.9962 (deg F) Tsat out = 265.8540 (deg F)
 Phi inner = 376.2325 (kBtu/hr-ft2) (+/- 1.2156 %)
 Phi outer = 374.4599 (kBtu/hr-ft2) (+/- 1.2316 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.5519	83.1877	82.9250	1.6889e-01	1.9001e+00
1	TRF000002	82.8929	83.3145	83.0868	1.2663e-01	1.9001e+00
2	TFM000001	86.2829	87.0193	86.6576	2.0596e-01	1.9002e+00
3	TIN000001	85.8381	86.2603	86.0621	1.3236e-01	1.9002e+00
4	TRV000001	87.8510	88.7938	88.2665	2.0615e-01	1.9002e+00
5	TSR000001	164.5397	169.7517	167.9005	1.3204e+00	1.9064e+00
6	TAO020136	155.6014	162.2754	159.1738	2.2880e+00	1.9053e+00
7	TAO050136	206.3912	207.7271	207.1496	3.0146e-01	1.9126e+00
8	TAO070136	204.7608	206.8857	205.8891	4.9619e-01	1.9124e+00
9	TAO080136	247.5327	249.0223	248.3814	3.4482e-01	1.9213e+00
10	TAO090136	260.7216	262.4814	261.6292	3.6868e-01	1.9246e+00
11	TAO100136	255.3342	257.1947	256.2570	4.6015e-01	1.9232e+00
12	TAO105136	260.6733	262.1611	261.4956	3.0775e-01	1.9245e+00
13	TAO110136	94.7118	95.3347	95.0231	1.5291e-01	1.9004e+00
14	TAO115136	262.7442	263.8584	263.3759	2.8004e-01	1.9250e+00
15	TAO120136	289.3409	290.3476	289.7220	1.7077e-01	1.9323e+00
16	TAO125136	269.1828	269.9216	269.5705	1.7595e-01	1.9266e+00
17	TAO130136	279.3263	280.2383	279.8305	2.1433e-01	1.9294e+00
18	TAO120048	120.8015	121.9272	121.3789	2.7233e-01	1.9018e+00
19	TAO130048	289.9146	290.7359	290.3636	2.1453e-01	1.9324e+00
20	TAO120224	284.8716	287.6161	285.7687	4.7237e-01	1.9311e+00
21	TAO130224	268.7340	269.8349	269.2746	2.7874e-01	1.9266e+00
22	TAO120312	272.0886	274.0269	272.9898	4.1463e-01	1.9276e+00
23	TAO130312	281.7640	282.7720	282.2443	2.5267e-01	1.9301e+00
24	TRT020000	205.4971	206.9425	206.3993	2.5890e-01	1.9125e+00
25	TRT070000	247.5510	249.1528	248.2372	3.7792e-01	1.9213e+00
26	TRT100000	273.4604	274.9318	274.1604	3.5024e-01	1.9279e+00
27	TRT120000	458.0045	458.4323	458.2340	9.2164e-02	1.9990e+00
28	TRT125000	97.5134	98.4496	97.9756	2.0023e-01	1.9005e+00
29	TRT130000	289.7551	292.1225	290.9201	5.2624e-01	1.9326e+00
30	EMPTY	39.1464	40.0646	39.7388	2.1795e-01	1.9011e+00
31	TAF050136	139.6684	142.1765	140.9121	6.2684e-01	1.9034e+00
32	TAF070136	162.1563	164.3264	163.1282	4.5293e-01	1.9058e+00
33	TAF080136	253.6830	256.2724	254.9530	6.4678e-01	1.9229e+00
34	TAF090136	93.9172	95.1694	94.6431	3.3799e-01	1.9004e+00
35	TAF100136	195.8400	197.0031	196.4681	2.8455e-01	1.9107e+00
36	TAF105136	201.2578	202.5019	201.8554	3.1656e-01	1.9117e+00
37	TAF110136	208.9675	209.9250	209.4231	2.7973e-01	1.9131e+00
38	TAF115136	215.4589	216.8895	216.1912	3.1838e-01	1.9143e+00
39	TAF120136	254.2733	255.6658	254.9670	3.3692e-01	1.9229e+00
40	TAF125136	226.6556	228.0692	227.4071	3.5271e-01	1.9166e+00
41	TAF130136	232.1531	233.2865	232.7654	2.8400e-01	1.9178e+00
42	TAF120048	223.9492	225.9550	224.6674	4.2165e-01	1.9160e+00
43	TAF130048	245.0514	249.5425	246.8602	1.1235e+00	1.9210e+00
44	TAF120224	215.8151	217.6268	216.5974	4.4556e-01	1.9144e+00
45	TAF130224	224.4402	225.3953	224.9291	2.5632e-01	1.9161e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0434	2.4581e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9591	1.3283e-01	1.9011e+00
48	TAI130048	273.1506	274.1647	273.6376	3.0085e-01	1.9277e+00
49	TAI130136	285.5190	286.6148	286.1939	2.3994e-01	1.9312e+00
50	TAI130224	279.1930	280.6667	279.9228	3.1944e-01	1.9295e+00
51	TAI130312	274.0853	275.3773	274.7502	2.9290e-01	1.9280e+00
52	TRR130000	135.2415	137.0546	135.9306	3.2716e-01	1.9029e+00
53	TSI000001	59.6243	60.5899	60.0881	2.0390e-01	1.9001e+00
54	TSI000002	77.6058	79.0854	78.4055	3.0358e-01	1.9000e+00
55	TSO000001	56.4543	57.3205	56.8832	2.2290e-01	1.9001e+00
56	TSO000002	79.3677	80.0031	79.6388	1.9131e-01	1.9001e+00
57	TAF020136	103.6773	106.4906	105.2455	7.0426e-01	1.9008e+00
58	TAF120312	215.9945	218.1905	217.3507	5.5048e-01	1.9146e+00
59	TAF130312	237.8781	239.4756	238.7727	3.7455e-01	1.9191e+00
60	EMPTY	3.9990	4.0186	4.0066	5.5066e-03	0.0000e+00
61	EMPTY	3.9795	4.0039	3.9896	4.9166e-03	0.0000e+00
62	EMPTY	3.9648	3.9795	3.9735	3.9815e-03	0.0000e+00
63	EMPTY	3.9600	3.9697	3.9664	3.4793e-03	0.0000e+00
64	EMPTY	1.9043	1.9141	1.9086	2.1249e-03	0.0000e+00
65	EMPTY	1.9189	1.9238	1.9219	2.4164e-03	0.0000e+00
66	EMPTY	1.9287	1.9336	1.9297	1.9730e-03	0.0000e+00
67	EMPTY	1.9385	1.9434	1.9408	2.4642e-03	0.0000e+00
68	EMPTY	1.9434	1.9482	1.9471	2.1065e-03	0.0000e+00
69	EMPTY	1.9482	1.9580	1.9572	2.0598e-03	0.0000e+00
70	EMPTY	1.9629	1.9678	1.9636	1.7115e-03	0.0000e+00
71	EMPTY	1.9775	1.9824	1.9787	2.1065e-03	0.0000e+00
72	EMPTY	1.9775	1.9922	1.9859	2.6174e-03	0.0000e+00
73	EMPTY	1.9971	2.0020	1.9974	1.1714e-03	0.0000e+00
74	EMPTY	2.0020	2.0068	2.0051	2.3675e-03	0.0000e+00
75	EMPTY	2.0117	2.0166	2.0160	1.6028e-03	0.0000e+00
76	EMPTY	2.0166	2.0264	2.0213	1.3811e-03	0.0000e+00
77	EMPTY	2.0313	2.0410	2.0340	2.6396e-03	0.0000e+00
78	EMPTY	2.0459	2.0508	2.0480	2.4484e-03	0.0000e+00
79	EMPTY	2.0605	2.0654	2.0648	1.6028e-03	0.0000e+00
80	PAN020136	-15.5550	5.9598	-2.8628	4.2612e+00	8.7003e-01
81	PAN050136	-7.4337	7.5199	0.1041	3.8251e+00	1.6800e+00
82	PAN070136	-18.8560	5.4054	-4.6700	5.8009e+00	8.7008e-01
83	PAN080136	-0.9858	27.7007	9.8586	6.5335e+00	8.7035e-01
84	PAN090136	-8.0636	10.3996	3.2813	3.5734e+00	8.7004e-01
85	PAN100136	9.0953	28.6265	13.7523	3.3866e+00	8.7068e-01
86	PAN105136	-2.1325	6.1835	1.6043	1.8798e+00	8.7001e-01
87	PAN110136	1.8568	7.7315	3.7718	1.2077e+00	8.7005e-01
88	PAN115136	1.8245	3.8081	2.7461	4.3945e-01	8.7003e-01
89	PAN120136	3.0174	4.6958	3.7635	4.4253e-01	8.7005e-01
90	PAN125136	2.7415	3.8859	3.2633	3.1072e-01	3.7004e-01
91	PAN130136	3.3094	3.9197	3.5947	1.1618e-01	8.7005e-01
92	PAN120048	2.8480	4.4501	3.6948	4.1453e-01	8.7005e-01
93	PAN130048	13.9092	15.2062	14.5195	3.0789e-01	8.7076e-01
94	PAN120224	2.0542	8.6917	5.7254	1.1259e+00	8.7012e-01
95	PAN130224	5.4919	10.7562	6.7187	1.0772e+00	8.7016e-01
96	PAN120312	9.6968	13.0538	10.6368	6.2296e-01	8.7041e-01
97	PAN130312	6.7961	8.5509	7.5545	4.0324e-01	8.7020e-01
98	PAB000136	39.9992	40.7316	40.4231	1.6922e-01	5.8874e-01
99	PAB100136	39.3152	39.6356	39.4589	8.9670e-02	5.8833e-01
100	PAB125136	38.8979	39.0810	38.9950	5.0350e-02	5.8814e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4704	40.8132	40.2029	3.9072e-01	7.5670e-01
102	PRV000001	19.5965	19.7186	19.6795	5.7521e-02	7.5161e-01
103	PSR000001	38.2238	38.4679	38.3678	5.8828e-02	7.5611e-01
104	PFM000001	24.1629	25.1699	24.7012	1.9631e-01	5.0380e-01
105	PAN000136	30.2568	49.9406	40.6847	5.0250e+00	4.9211e+00
106	PFM000002	24.3807	24.8673	24.6187	9.6998e-02	2.0926e-01
107	EMPTY	-0.0049	0.0098	0.0051	2.1970e-03	0.0000e+00
108	EMPTY	-10.0000	-0.7373	-5.6428	2.8397e+00	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	198.8995	199.4854	199.1143	1.5409e-01	1.4434e+00
113	VPW000002	233.1092	233.4999	233.2616	1.1361e-01	1.6171e+00
114	VPW000003	289.4193	289.8099	289.5793	1.2283e-01	1.9170e+00
115	VPW000004	204.4734	205.0593	204.7939	1.3532e-01	1.4717e+00
116	VPW000005	273.0506	273.4413	273.2460	1.1161e-01	1.8287e+00
117	VPW000006	291.0344	291.4250	291.2765	1.2200e-01	1.9262e+00
118	IPW000001	1035.4930	1045.2548	1041.4668	2.7159e+00	1.1546e+01
119	IPW000002	2471.1328	2480.8892	2475.3857	2.0366e+00	2.1167e+01
120	IPW000003	2511.5999	2517.4500	2514.1736	1.3895e+00	2.1450e+01
121	IPW000004	725.8958	727.3606	726.4037	3.5513e-01	6.0771e+00
122	IPW000005	482.5426	483.5191	482.8846	3.1579e-01	4.3073e+00
123	IPW000006	499.5493	500.5259	499.9396	3.8206e-01	4.4270e+00
124	EMPTY	-0.0293	-0.0146	-0.0197	3.5513e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0123	2.8317e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0157	4.2188e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.4527e-03	0.0000e+00
128	IHT000001	244.5387	247.0778	245.9646	6.4386e-01	4.7812e+00
129	IHT000002	251.5174	253.8612	252.9472	6.0675e-01	4.8175e+00
130	IHT000003	253.9889	256.3326	255.2194	6.3656e-01	4.8295e+00
131	IHT000004	248.7643	251.4986	250.1862	7.1140e-01	4.8031e+00
132	IHT000005	246.4543	249.1887	247.7745	6.3816e-01	4.7905e+00
133	IHT000006	240.5987	243.1378	241.8721	6.0004e-01	4.7603e+00
134	IHT000007	250.5259	253.2602	251.7405	6.5232e-01	4.8112e+00
135	IHT000008	247.7389	250.6686	248.9304	6.0779e-01	4.7965e+00
136	IHT000009	247.5323	250.8526	248.8916	6.7883e-01	4.7963e+00
137	IHT000010	79.2330	81.3815	80.2642	6.1768e-01	4.1778e+00
138	IHT000011	248.2760	250.6197	249.4714	6.3826e-01	4.7993e+00
139	IHT000012	243.9378	246.2816	245.1604	6.4695e-01	4.7771e+00
140	IHT000013	177.5391	179.8828	178.6445	5.5609e-01	4.4723e+00
141	IHT000014	245.1397	247.4835	246.3701	5.6255e-01	4.7833e+00
142	IHT000015	183.0979	185.2464	184.2738	5.3305e-01	4.4951e+00
143	IHT000016	169.9669	172.5060	171.3653	5.8041e-01	4.4437e+00
144	IHT000017	204.0941	206.6331	205.4729	7.3016e-01	4.5861e+00
145	IHT000018	205.7918	208.7215	207.3817	6.9026e-01	4.5946e+00
146	IHT000019	199.3765	201.9156	200.7711	5.4105e-01	4.5652e+00
147	IHT000020	205.6115	208.1505	206.9630	5.5921e-01	4.5928e+00
148	IHT000021	-3.2039	-0.6648	-1.8132	6.3582e-01	4.1000e+00
149	IHT000022	176.8442	178.7973	177.8325	4.8070e-01	4.4691e+00
150	IHT000023	201.2395	203.5833	202.3604	5.2022e-01	4.5722e+00
151	IHT000024	165.6663	167.6195	166.5766	4.6956e-01	4.4255e+00
152	IHT000025	200.0564	202.2048	201.2634	4.9551e-01	4.5674e+00
153	IHT000026	202.9823	205.1307	203.9433	5.2176e-01	4.5792e+00
154	IHT000027	173.1971	174.9549	174.0956	4.6689e-01	4.4543e+00
155	IHT000028	175.1239	178.2489	176.9091	7.0367e-01	4.4654e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.1043	204.2293	202.8778	6.8668e-01	4.5745e+00
157	IHT000030	205.0594	208.1844	206.7860	7.2045e-01	4.5920e+00
158	IHT000031	201.7353	205.0556	203.5713	7.2006e-01	4.5776e+00
159	IHT000032	204.7889	207.9139	206.2187	6.8395e-01	4.5894e+00
160	IHT000033	204.6161	207.9365	206.1474	7.0956e-01	4.5891e+00
161	IHT000034	179.8753	182.8050	181.3714	5.6305e-01	4.4833e+00
162	IHT000035	237.1995	240.5199	238.8128	6.1106e-01	4.7448e+00
163	IHT000036	177.5653	181.0810	179.3232	5.9320e-01	4.4750e+00

Velocity 1 = 12.7125 (ft/sec) (+/- 1.9533 %)
Velocity 2 = 12.6968 (ft/sec) (+/- 1.7110 %)
Pressure drop = 1.4375 (psi)
Tsat in = 267.6438 (deg F) Tsat out = 265.4873 (deg F)
Phi inner = 373.5170 (kBtu/hr-ft2) (+/- 1.2163 %)
Phi outer = 374.4627 (kBtu/hr-ft2) (+/- 1.2311 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.5519	83.1877	82.8402	1.7529e-01	1.9001e+00
1	TRF000002	82.8929	83.3145	83.0826	1.3636e-01	1.9001e+00
2	TFM000001	85.9679	86.8096	86.4035	1.7890e-01	1.9002e+00
3	TIN000001	85.4166	86.0497	85.7691	1.4546e-01	1.9002e+00
4	TRV000001	87.4334	88.2725	87.9715	1.7578e-01	1.9002e+00
5	TSR000001	168.5729	171.6137	169.8666	7.4136e-01	1.9067e+00
6	TAO020136	143.9702	148.4942	145.4010	1.0728e+00	1.9038e+00
7	TAO050136	206.0068	207.7253	206.6164	3.3427e-01	1.9125e+00
8	TAO070136	204.3735	206.5961	205.4504	5.5458e-01	1.9123e+00
9	TAO080136	247.2544	248.7406	248.1151	3.3403e-01	1.9213e+00
10	TAO090136	260.3499	262.2968	261.1379	4.2921e-01	1.9245e+00
11	TAO100136	255.2418	256.6367	255.9760	3.1733e-01	1.9232e+00
12	TAO105136	260.3947	261.5103	260.9804	2.6253e-01	1.9244e+00
13	TAO110136	94.4005	95.2329	94.7308	1.6389e-01	1.9004e+00
14	TAO115136	262.1873	263.4879	262.8655	2.9127e-01	1.9249e+00
15	TAO120136	288.9753	289.7080	289.3033	1.6021e-01	1.9321e+00
16	TAO125136	268.4452	269.3687	269.0521	2.1344e-01	1.9265e+00
17	TAO130136	278.9674	279.7836	279.3899	1.8057e-01	1.9293e+00
18	TAO120048	120.5971	121.8252	121.2376	3.2906e-01	1.9018e+00
19	TAO130048	289.5511	290.7354	290.0522	2.3366e-01	1.9323e+00
20	TAO120224	284.5048	287.0681	285.2360	4.3350e-01	1.9310e+00
21	TAO130224	268.2778	269.5619	268.9024	2.6648e-01	1.9265e+00
22	TAO120312	271.7197	273.1044	272.5300	3.3801e-01	1.9274e+00
23	TAO130312	281.3980	282.3140	281.8726	2.2569e-01	1.9300e+00
24	TRT020000	205.4004	206.6538	205.9848	2.8982e-01	1.9124e+00
25	TRT070000	246.9847	248.4927	247.8584	4.1105e-01	1.9212e+00
26	TRT100000	272.9100	274.4730	273.7870	3.5649e-01	1.9278e+00
27	TRT120000	458.0045	458.4323	458.1979	9.4359e-02	1.9989e+00
28	TRT125000	97.4112	98.3449	97.8613	2.1648e-01	1.9005e+00
29	TRT130000	289.2982	291.7581	290.5211	5.8289e-01	1.9325e+00
30	EMPTY	39.3761	40.0646	39.7525	2.1630e-01	1.9011e+00
31	TAF050136	139.7678	141.6725	140.7814	4.4381e-01	1.9034e+00
32	TAF070136	161.9614	163.5389	162.7437	3.3670e-01	1.9058e+00
33	TAF080136	253.1296	255.6262	254.6659	5.7954e-01	1.9228e+00
34	TAF090136	93.8117	94.7524	94.1235	2.5452e-01	1.9004e+00
35	TAF100136	195.5485	197.0026	196.2023	3.2289e-01	1.9107e+00
36	TAF105136	200.7788	202.5041	201.5049	4.0293e-01	1.9116e+00
37	TAF110136	208.5851	209.9232	209.1609	2.8896e-01	1.9130e+00
38	TAF115136	215.3644	216.6035	215.8993	2.6515e-01	1.9143e+00
39	TAF120136	253.7164	255.3868	254.5606	3.2549e-01	1.9228e+00
40	TAF125136	226.3764	227.6933	227.1001	2.9118e-01	1.9166e+00
41	TAF130136	231.8706	233.0020	232.3372	2.2173e-01	1.9177e+00
42	TAF120048	223.2796	225.0954	224.3176	3.5130e-01	1.9160e+00
43	TAF130048	244.6767	251.3150	246.7679	1.5727e+00	1.9209e+00
44	TAF120224	215.4326	216.9600	216.1414	4.2536e-01	1.9143e+00
45	TAF130224	224.1537	225.0126	224.6179	2.2073e-01	1.9160e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0848	2.0716e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0188	1.2265e-01	1.9011e+00
48	TAI130048	272.5048	274.1642	273.3111	3.5523e-01	1.9276e+00
49	TAI130136	285.6084	286.3402	285.9619	2.1934e-01	1.9312e+00
50	TAI130224	279.2852	280.2985	279.8067	2.5281e-01	1.9294e+00
51	TAI130312	273.7162	275.1012	274.4087	3.2895e-01	1.9279e+00
52	TRR130000	136.9522	138.5639	137.8401	3.4551e-01	1.9031e+00
53	TSI000001	59.6237	60.4820	60.0427	2.1172e-01	1.9001e+00
54	TSI000002	76.8658	78.6627	77.6807	4.3599e-01	1.9000e+00
55	TSO000001	56.3461	57.4282	56.8247	2.3855e-01	1.9001e+00
56	TSO000002	79.0505	80.0031	79.4842	2.0419e-01	1.9001e+00
57	TAF020136	103.4691	105.8674	104.8015	6.6889e-01	1.9008e+00
58	TAF120312	216.0891	217.9051	216.8941	3.9595e-01	1.9145e+00
59	TAF130312	237.3131	239.1937	238.4134	3.6592e-01	1.9190e+00
60	EMPTY	3.9893	4.0039	3.9984	3.2178e-03	0.0000e+00
61	EMPTY	3.9746	3.9844	3.9809	2.4244e-03	0.0000e+00
62	EMPTY	3.9600	3.9697	3.9651	1.5314e-03	0.0000e+00
63	EMPTY	3.9551	3.9600	3.9577	2.4583e-03	0.0000e+00
64	EMPTY	1.8994	1.9043	1.9036	1.7115e-03	0.0000e+00
65	EMPTY	1.9141	1.9189	1.9170	2.4164e-03	0.0000e+00
66	EMPTY	1.9189	1.9287	1.9241	1.5314e-03	0.0000e+00
67	EMPTY	1.9336	1.9385	1.9346	1.9730e-03	0.0000e+00
68	EMPTY	1.9385	1.9434	1.9420	2.2146e-03	0.0000e+00
69	EMPTY	1.9482	1.9531	1.9519	2.1635e-03	0.0000e+00
70	EMPTY	1.9580	1.9629	1.9581	6.9053e-04	0.0000e+00
71	EMPTY	1.9727	1.9775	1.9733	1.7115e-03	0.0000e+00
72	EMPTY	1.9775	1.9824	1.9804	2.4344e-03	0.0000e+00
73	EMPTY	1.9922	1.9971	1.9923	6.9053e-04	0.0000e+00
74	EMPTY	1.9971	2.0020	2.0000	2.4164e-03	0.0000e+00
75	EMPTY	2.0068	2.0117	2.0108	1.8950e-03	0.0000e+00
76	EMPTY	2.0166	2.0215	2.0167	6.9053e-04	0.0000e+00
77	EMPTY	2.0215	2.0313	2.0288	2.6562e-03	0.0000e+00
78	EMPTY	2.0410	2.0459	2.0445	2.2146e-03	0.0000e+00
79	EMPTY	2.0557	2.0605	2.0603	1.1714e-03	0.0000e+00
80	PAN020136	-10.9011	3.2133	-3.7295	3.4872e+00	8.7005e-01
81	PAN050136	-10.4855	12.7079	1.1600	5.0483e+00	1.6800e+00
82	PAN070136	-22.5944	6.7024	-4.9614	5.7574e+00	8.7009e-01
83	PAN080136	-4.9531	30.3710	9.5504	6.9195e+00	8.7033e-01
84	PAN090136	-6.7666	19.4022	3.3347	4.5629e+00	8.7004e-01
85	PAN100136	5.5857	24.3540	14.3733	3.9836e+00	8.7074e-01
86	PAN105136	-1.6748	5.7257	1.1176	1.5592e+00	8.7000e-01
87	PAN110136	1.3991	5.3663	3.4941	9.9334e-01	8.7004e-01
88	PAN115136	1.4430	3.8081	2.7400	5.7528e-01	8.7003e-01
89	PAN120136	2.7122	4.7721	3.4645	4.6087e-01	8.7004e-01
90	PAN125136	2.5889	4.2674	3.3656	4.0801e-01	8.7004e-01
91	PAN130136	3.2331	4.0723	3.6451	1.9066e-01	8.7005e-01
92	PAN120048	3.0006	4.7553	3.9115	4.2838e-01	8.7005e-01
93	PAN130048	13.4514	15.5876	14.2967	5.8508e-01	8.7073e-01
94	PAN120224	3.3512	6.7081	5.5164	6.8896e-01	8.7011e-01
95	PAN130224	5.9497	9.6881	6.7004	6.6750e-01	8.7016e-01
96	PAN120312	9.2391	14.2745	10.3255	8.4615e-01	8.7038e-01
97	PAN130312	6.6435	8.6272	7.5789	4.1554e-01	8.7021e-01
98	PAB000136	39.7703	40.5943	40.1850	1.8320e-01	5.8864e-01
99	PAB100136	39.0863	39.3610	39.1980	8.5345e-02	5.8822e-01
100	PAB125136	38.6690	38.8521	38.7551	4.4004e-02	5.8804e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.1042	40.5690	39.8733	3.8305e-01	7.5660e-01
102	PRV000001	19.5965	19.7186	19.6917	5.1081e-02	7.5161e-01
103	PSR000001	37.9796	38.2238	38.1163	4.7052e-02	7.5603e-01
104	PFM000001	24.3460	25.1699	24.7415	1.5190e-01	5.0381e-01
105	PAN000136	30.7145	50.8561	39.7966	4.9375e+00	4.9210e+00
106	PFM000002	24.5317	24.8841	24.6801	7.8731e-02	2.0930e-01
107	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-0.9375	-5.8399	3.0049e+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	198.8995	199.2901	199.0713	1.4029e-01	1.4432e+00
113	VPW000002	233.1092	233.4999	233.2343	1.0259e-01	1.6169e+00
114	VPW000003	289.2240	289.8099	289.5950	1.2633e-01	1.9171e+00
115	VPW000004	204.6687	205.0593	204.8603	1.3375e-01	1.4721e+00
116	VPW000005	273.0506	273.6366	273.2226	1.2251e-01	1.8285e+00
117	VPW000006	291.0344	291.6204	291.2686	1.3669e-01	1.9262e+00
118	IPW000001	1060.8735	1068.6829	1064.1920	1.9820e+00	1.1674e+01
119	IPW000002	2451.6201	2461.3765	2455.7961	2.0488e+00	2.1024e+01
120	IPW000003	2488.2000	2501.8499	2496.1560	4.0911e+00	2.1318e+01
121	IPW000004	725.8958	730.7786	728.5424	1.8031e+00	6.0931e+00
122	IPW000005	481.0779	482.5426	481.7518	4.0537e-01	4.2994e+00
123	IPW000006	495.1548	497.1079	496.0822	4.4391e-01	4.3999e+00
124	EMPTY	-0.0244	-0.0146	-0.0185	3.1644e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.8862e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0146	3.4863e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0179	3.3613e-03	0.0000e+00
128	IHT000001	244.1481	246.8825	245.8201	6.5692e-01	4.7805e+00
129	IHT000002	251.3221	253.8612	252.7636	6.2874e-01	4.8165e+00
130	IHT000003	253.4030	256.3326	255.0515	6.1150e-01	4.8286e+00
131	IHT000004	248.3736	251.4986	250.0847	6.1708e-01	4.8025e+00
132	IHT000005	246.4543	248.7981	247.6768	5.8900e-01	4.7900e+00
133	IHT000006	240.4034	243.1378	241.7549	6.0211e-01	4.7597e+00
134	IHT000007	250.5259	253.0649	251.6312	6.1966e-01	4.8106e+00
135	IHT000008	247.7389	250.0826	248.7429	5.9452e-01	4.7955e+00
136	IHT000009	247.3370	249.8760	248.6729	6.3425e-01	4.7952e+00
137	IHT000010	79.0377	81.5768	80.2369	6.1890e-01	4.1778e+00
138	IHT000011	248.2760	250.6197	249.4909	6.1926e-01	4.7994e+00
139	IHT000012	243.9378	246.2816	245.1135	6.2076e-01	4.7768e+00
140	IHT000013	177.3438	180.0781	178.6211	6.3160e-01	4.4722e+00
141	IHT000014	245.1397	247.4835	246.3467	6.3588e-01	4.7832e+00
142	IHT000015	183.0979	185.6370	184.2777	6.3376e-01	4.4951e+00
143	IHT000016	170.1622	172.7013	171.3341	6.2015e-01	4.4436e+00
144	IHT000017	203.8987	207.4144	205.5237	7.1837e-01	4.5863e+00
145	IHT000018	205.7918	209.1121	207.2919	8.1676e-01	4.5942e+00
146	IHT000019	199.3765	202.8921	200.8453	6.8144e-01	4.5655e+00
147	IHT000020	205.8068	208.7365	207.0255	6.3816e-01	4.5930e+00
148	IHT000021	-3.0086	0.5071	-1.6101	7.6245e-01	4.1000e+00
149	IHT000022	176.8442	179.3833	178.0395	6.0572e-01	4.4699e+00
150	IHT000023	201.2395	203.7786	202.3995	5.3585e-01	4.5724e+00
151	IHT000024	165.4710	167.8148	166.6781	5.4632e-01	4.4259e+00
152	IHT000025	200.0564	203.1814	201.3103	6.1014e-01	4.5676e+00
153	IHT000026	202.5917	205.5213	204.0175	6.0522e-01	4.5796e+00
154	IHT000027	172.8065	175.9315	174.1659	6.4230e-01	4.4546e+00
155	IHT000028	174.9286	178.8349	176.8505	7.2045e-01	4.4652e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	200.9090	204.2293	202.8192	6.8378e-01	4.5742e+00
157	IHT000030	205.0594	208.1844	206.6923	6.9672e-01	4.5915e+00
158	IHT000031	202.1259	204.8603	203.4658	6.9252e-01	4.5771e+00
159	IHT000032	204.7889	207.7186	206.0937	7.2054e-01	4.5888e+00
160	IHT000033	204.6161	207.7411	206.0420	7.0834e-01	4.5886e+00
161	IHT000034	180.4612	182.4144	181.3011	5.5978e-01	4.4830e+00
162	IHT000035	237.5902	239.9339	238.6448	5.5804e-01	4.7440e+00
163	IHT000036	178.1513	180.2997	179.1826	5.3676e-01	4.4744e+00

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Velocity 1 = 0.009999 (ft/sec)

Velocity 2 = 0.015400 (ft/sec)

Pressure Drop = 0.032000 (psi)

Tsat in = 0.352386 (deg F) Tsat out = 0.366699 (deg F)

Phi inner = 2.715515 (kBtu/hr-ft2) Phi outer = 0.002808 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0848	0.1023
1	TRF000002	0.0042	0.0051
2	TFM000001	0.2541	0.2932
3	TIN000001	0.2930	0.3405
4	TRV000001	0.2950	0.3342
5	TSR000001	1.9661	1.1710
6	TAO020136	13.7728	8.6527
7	TAO050136	0.5332	0.2574
8	TAO070136	0.4387	0.2131
9	TAO080136	0.2663	0.1072
10	TAO090136	0.4913	0.1878
11	TAO100136	0.2810	0.1097
12	TAO105136	0.5152	0.1970
13	TAO110136	0.2923	0.3076
14	TAO115136	0.5104	0.1938
15	TAO120136	0.4187	0.1445
16	TAO125136	0.5184	0.1923
17	TAO130136	0.4406	0.1575
18	TAO120048	0.1413	0.1164
19	TAO130048	0.3114	0.1072
20	TAO120224	0.5327	0.1864
21	TAO130224	0.3722	0.1382
22	TAO120312	0.4598	0.1684
23	TAO130312	0.3717	0.1317
24	TRT020000	0.4145	0.2008
25	TRT070000	0.3788	0.1526
26	TRT100000	0.3734	0.1362
27	TRT120000	0.0361	0.0079
28	TRT125000	0.1143	0.1167
29	TRT130000	0.3990	0.1372
30	EMPTY	0.0137	0.0345
31	TAF050136	0.1307	0.0927
32	TAF070136	0.3845	0.2357
33	TAF080136	0.2871	0.1126
34	TAF090136	0.5196	0.5490
35	TAF100136	0.2658	0.1353
36	TAF105136	0.3505	0.1736
37	TAF110136	0.2622	0.1252
38	TAF115136	0.2919	0.1350
39	TAF120136	0.4064	0.1594
40	TAF125136	0.3070	0.1350
41	TAF130136	0.4282	0.1840
42	TAF120048	0.3498	0.1557
43	TAF130048	0.0923	0.0374
44	TAF120224	0.4560	0.2105
45	TAF130224	0.3112	0.1383

#	Name	Abs Diff	%Diff
46	EMPTY	0.0414	0.1088
47	EMPTY	0.0597	0.1494
48	TAI130048	0.3265	0.1193
49	TAI130136	0.2320	0.0811
50	TAI130224	0.1161	0.0415
51	TAI130312	0.3415	0.1243
52	TRR130000	1.9095	1.4048
53	TSI000001	0.0454	0.0756
54	TSI000002	0.7248	0.9244
55	TSO000001	0.0585	0.1028
56	TSO000002	0.1546	0.1941
57	TAF020136	0.4440	0.4219
58	TAF120312	0.4566	0.2101
59	TAF130312	0.3593	0.1505
60	EMPTY	0.0082	0.2047
61	EMPTY	0.0087	0.2181
62	EMPTY	0.0084	0.2114
63	EMPTY	0.0087	0.2193
64	EMPTY	0.0050	0.2620
65	EMPTY	0.0049	0.2550
66	EMPTY	0.0056	0.2902
67	EMPTY	0.0062	0.3195
68	EMPTY	0.0051	0.2619
69	EMPTY	0.0053	0.2708
70	EMPTY	0.0055	0.2801
71	EMPTY	0.0054	0.2729
72	EMPTY	0.0055	0.2770
73	EMPTY	0.0051	0.2553
74	EMPTY	0.0051	0.2544
75	EMPTY	0.0052	0.2579
76	EMPTY	0.0046	0.2276
77	EMPTY	0.0052	0.2556
78	EMPTY	0.0035	0.1709
79	EMPTY	0.0045	0.2179
80	PAN020136	0.8667	30.2746
81	PAN050136	1.0559	1014.3132
82	PAN070136	0.2914	6.2398
83	PAN080136	0.3082	3.1262
84	PAN090136	0.0534	1.6274
85	PAN100136	0.6210	4.5156
86	PAN105136	0.4867	30.3372
87	PAN110136	0.2777	7.3625
88	PAN115136	0.0061	0.2221
89	PAN120136	0.2990	7.9447
90	PAN125136	0.1023	3.1349
91	PAN130136	0.0504	1.4021
92	PAN120048	0.2167	5.8650
93	PAN130048	0.2228	1.5345
94	PAN120224	0.2090	3.6504
95	PAN130224	0.0183	0.2724
96	PAN120312	0.3113	2.9266
97	PAN130312	0.0244	0.3230
98	PAB000136	0.2381	0.5890
99	PAB100136	0.2609	0.6612
100	PAB125136	0.2399	0.6152

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#	Name	Abs Diff	%Diff
101	PIN000001	0.3296	0.8198
102	PRV000001	0.0122	0.0620
103	PSR000001	0.2515	0.6555
104	PFM000001	0.0403	0.1632
105	PAN000136	0.8881	2.1829
106	PFM000002	0.0614	0.2494
107	EMPTY	0.0000	0.0000
108	EMPTY	0.1971	3.4929
109	EMPTY	0.0001	2.0833
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0430	0.0216
113	VPW000002	0.0273	0.0117
114	VPW000003	0.0157	0.0054
115	VPW000004	0.0664	0.0324
116	VPW000005	0.0234	0.0086
117	VPW000006	0.0079	0.0027
118	IPW000001	22.7252	2.1820
119	IPW000002	19.5896	0.7914
120	IPW000003	18.0176	0.7166
121	IPW000004	2.1387	0.2944
122	IPW000005	1.1328	0.2346
123	IPW000006	3.8574	0.7716
124	EMPTY	0.0012	6.0914
125	EMPTY	0.0012	9.7561
126	EMPTY	0.0011	7.0064
127	EMPTY	0.0018	11.1801
128	IHT000001	0.1445	0.0587
129	IHT000002	0.1836	0.0726
130	IHT000003	0.1679	0.0658
131	IHT000004	0.1015	0.0406
132	IHT000005	0.0977	0.0394
133	IHT000006	0.1172	0.0485
134	IHT000007	0.1093	0.0434
135	IHT000008	0.1875	0.0753
136	IHT000009	0.2187	0.0879
137	IHT000010	0.0273	0.0340
138	IHT000011	0.0195	0.0078
139	IHT000012	0.0469	0.0191
140	IHT000013	0.0234	0.0131
141	IHT000014	0.0234	0.0095
142	IHT000015	0.0039	0.0021
143	IHT000016	0.0312	0.0182
144	IHT000017	0.0508	0.0247
145	IHT000018	0.0898	0.0433
146	IHT000019	0.0742	0.0370
147	IHT000020	0.0625	0.0302
148	IHT000021	0.2031	11.2012
149	IHT000022	0.2070	0.1164
150	IHT000023	0.0391	0.0193
151	IHT000024	0.1015	0.0609
152	IHT000025	0.0469	0.0233
153	IHT000026	0.0742	0.0364
154	IHT000027	0.0703	0.0404
155	IHT000028	0.0586	0.0331

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0586	0.0289
157	IHT000030	0.0937	0.0453
158	IHT000031	0.1055	0.0518
159	IHT000032	0.1250	0.0606
160	IHT000033	0.1054	0.0511
161	IHT000034	0.0703	0.0388
162	IHT000035	0.1680	0.0703
163	IHT000036	0.1406	0.0784

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Velocity 1 = 12.4568 (ft/sec) (+/- 1.9755 %)

Velocity 2 = 12.4485 (ft/sec) (+/- 1.7142 %)

Pressure drop = 1.9963 (psi)

Tsats in = 268.0880 (deg F) Tsats out = 265.1313 (deg F)

Phi inner = 375.4110 (kBtu/hr-ft2) (+/- 1.2159 %)

Phi outer = 376.5097 (kBtu/hr-ft2) (+/- 1.2305 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.5519	83.1877	82.8317	1.6825e-01	1.9001e+00
1	TRF000002	82.6820	83.3145	83.0489	1.4004e-01	1.9001e+00
2	TFM000001	85.8631	86.7050	86.3866	1.7684e-01	1.9002e+00
3	TIN000001	85.6274	86.1546	85.8281	1.4327e-01	1.9002e+00
4	TRV000001	87.8510	88.3760	88.0591	1.4260e-01	1.9002e+00
5	TSR000001	169.9460	171.6142	170.8594	4.4096e-01	1.9068e+00
6	TAO020136	144.6748	159.9881	156.8997	3.9228e+00	1.9051e+00
7	TAO050136	204.2845	205.5320	204.9501	3.0047e-01	1.9122e+00
8	TAO070136	203.5997	205.7269	204.5187	5.1429e-01	1.9122e+00
9	TAO080136	245.6717	246.8827	246.3514	2.6289e-01	1.9208e+00
10	TAO090136	258.9599	260.3509	259.6402	3.4169e-01	1.9241e+00
11	TAO100136	253.4729	254.9625	254.2309	3.5440e-01	1.9227e+00
12	TAO105136	258.9988	260.0225	259.4955	2.5827e-01	1.9240e+00
13	TAO110136	91.7074	92.3349	91.9351	1.5285e-01	1.9003e+00
14	TAO115136	260.5156	261.5384	261.1052	2.6591e-01	1.9244e+00
15	TAO120136	287.1465	288.1533	287.5401	1.9161e-01	1.9316e+00
16	TAO125136	267.0610	268.3532	267.6870	3.0663e-01	1.9261e+00
17	TAO130136	277.3368	278.9679	277.9369	4.1528e-01	1.9289e+00
18	TAO120048	117.2191	118.3474	117.8614	2.8970e-01	1.9015e+00
19	TAO130048	291.7338	293.1887	292.3358	3.3050e-01	1.9330e+00
20	TAO120224	282.1237	283.9566	283.0677	3.4207e-01	1.9303e+00
21	TAO130224	265.3462	266.6291	266.0079	2.7980e-01	1.9257e+00
22	TAO120312	269.1320	271.0731	270.0951	4.3192e-01	1.9268e+00
23	TAO130312	280.2088	281.5821	280.6864	3.2279e-01	1.9297e+00
24	TRT020000	210.0219	211.4635	210.7045	3.2324e-01	1.9133e+00
25	TRT070000	254.0450	256.3898	255.2361	5.0046e-01	1.9230e+00
26	TRT100000	283.1768	285.0045	284.0738	3.9701e-01	1.9306e+00
27	TRT120000	458.0045	458.4323	458.1809	8.7118e-02	1.9989e+00
28	TRT125000	93.3674	94.2012	93.8155	1.9195e-01	1.9004e+00
29	TRT130000	282.7255	284.3723	283.6570	3.3601e-01	1.9305e+00
30	EMPTY	39.3761	40.0646	39.7342	1.9760e-01	1.9011e+00
31	TAF050136	139.3653	141.6745	140.3880	5.2901e-01	1.9033e+00
32	TAF070136	161.4668	162.8506	162.1444	3.7437e-01	1.9057e+00
33	TAF080136	252.1076	255.4418	253.6590	7.0279e-01	1.9226e+00
34	TAF090136	91.6185	92.7701	92.1691	3.1035e-01	1.9003e+00
35	TAF100136	194.2870	195.8395	195.1861	2.9325e-01	1.9105e+00
36	TAF105136	200.1098	201.3548	200.6669	2.8743e-01	1.9115e+00
37	TAF110136	207.6286	208.7776	208.1510	2.3383e-01	1.9128e+00
38	TAF115136	214.2204	215.6506	214.8891	3.1278e-01	1.9141e+00
39	TAF120136	252.5095	253.9003	253.2693	2.9834e-01	1.9225e+00
40	TAF125136	225.2455	227.2225	226.1029	3.8026e-01	1.9163e+00
41	TAF130136	233.7551	235.8270	234.6428	4.9117e-01	1.9182e+00
42	TAF120048	241.9167	250.4023	246.5382	2.2968e+00	1.9209e+00
43	TAF130048	262.2889	263.5875	262.9366	3.2311e-01	1.9249e+00
44	TAF120224	214.8610	216.3872	215.6798	3.6933e-01	1.9142e+00
45	TAF130224	223.3899	224.1537	223.8195	2.1240e-01	1.9159e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.0940	2.4619e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.9270	1.2266e-01	1.9011e+00
48	TAI130048	272.5048	273.8884	273.0051	2.9869e-01	1.9276e+00
49	TAI130136	284.9694	285.8842	285.4286	2.2879e-01	1.9310e+00
50	TAI130224	277.5345	279.0093	278.4618	3.0562e-01	1.9291e+00
51	TAI130312	271.6853	273.0705	272.5001	3.1036e-01	1.9274e+00
52	TRR130000	134.3330	136.6508	135.2189	5.5682e-01	1.9029e+00
53	TSI000001	59.7306	60.5899	60.1584	1.7563e-01	1.9001e+00
54	TSI000002	80.1385	81.0887	80.6137	2.3065e-01	1.9001e+00
55	TSO000001	56.5627	57.3211	56.9071	2.1044e-01	1.9001e+00
56	TSO000002	79.1557	80.4253	79.8268	2.3861e-01	1.9001e+00
57	TAF020136	103.3641	106.3880	104.8767	6.3784e-01	1.9008e+00
58	TAF120312	224.8565	226.7556	225.8117	4.3886e-01	1.9163e+00
59	TAF130312	241.6331	243.5087	242.4079	4.1066e-01	1.9199e+00
60	EMPTY	4.0918	4.1064	4.0999	4.3684e-03	0.0000e+00
61	EMPTY	4.0771	4.0869	4.0819	3.0389e-03	0.0000e+00
62	EMPTY	4.0576	4.0723	4.0646	2.8058e-03	0.0000e+00
63	EMPTY	4.0527	4.0625	4.0566	2.4164e-03	0.0000e+00
64	EMPTY	1.9434	1.9531	1.9477	1.8821e-03	0.0000e+00
65	EMPTY	1.9580	1.9629	1.9596	2.3008e-03	0.0000e+00
66	EMPTY	1.9629	1.9678	1.9677	6.9053e-04	0.0000e+00
67	EMPTY	1.9775	1.9824	1.9777	9.6655e-04	0.0000e+00
68	EMPTY	1.9824	1.9873	1.9829	1.4797e-03	0.0000e+00
69	EMPTY	1.9922	1.9971	1.9930	1.8082e-03	0.0000e+00
70	EMPTY	1.9971	2.0020	2.0007	2.1635e-03	0.0000e+00
71	EMPTY	2.0117	2.0166	2.0155	2.0432e-03	0.0000e+00
72	EMPTY	2.0166	2.0215	2.0213	9.6655e-04	0.0000e+00
73	EMPTY	2.0313	2.0361	2.0317	1.4797e-03	0.0000e+00
74	EMPTY	2.0313	2.0459	2.0407	1.8216e-03	0.0000e+00
75	EMPTY	2.0459	2.0508	2.0506	9.6655e-04	0.0000e+00
76	EMPTY	2.0557	2.0605	2.0558	6.9053e-04	0.0000e+00
77	EMPTY	2.0654	2.0703	2.0677	2.4583e-03	0.0000e+00
78	EMPTY	2.0801	2.0850	2.0823	2.4583e-03	0.0000e+00
79	EMPTY	2.0947	2.0996	2.0993	1.1714e-03	0.0000e+00
80	PAN020136	-10.4434	9.8508	-0.0842	4.2791e+00	8.7000e-01
81	PAN050136	-4.8397	17.8959	5.0907	4.3003e+00	1.6800e+00
82	PAN070136	-17.6353	9.9068	-1.7250	5.7244e+00	8.7001e-01
83	PAN080136	3.9733	28.9214	12.2725	5.0043e+00	8.7054e-01
84	PAN090136	-2.2652	14.8246	3.9207	3.6234e+00	8.7006e-01
85	PAN100136	6.1961	17.8691	12.3591	2.8323e+00	8.7055e-01
86	PAN105136	-1.9037	5.4969	2.2727	1.4191e+00	8.7002e-01
87	PAN110136	2.3909	6.8922	3.7215	9.0380e-01	8.7005e-01
88	PAN115136	1.9008	4.5711	3.2634	6.7680e-01	8.7004e-01
89	PAN120136	2.2544	5.3062	3.6109	6.4246e-01	8.7005e-01
90	PAN125136	3.1993	4.9540	3.8737	3.4719e-01	8.7005e-01
91	PAN130136	4.9879	6.4374	5.7538	4.3212e-01	8.7012e-01
92	PAN120048	-0.3564	2.6191	0.9498	5.5116e-01	8.7000e-01
93	PAN130048	53.6583	58.4648	55.6435	1.2987e+00	8.8105e-01
94	PAN120224	5.2585	18.4574	6.8958	1.8828e+00	8.7017e-01
95	PAN130224	9.6118	12.2058	10.8371	5.3226e-01	8.7042e-01
96	PAN120312	26.3289	41.2825	28.6727	2.2340e+00	8.7295e-01
97	PAN130312	13.4337	16.1803	15.1061	7.2491e-01	8.7082e-01
98	PAB000136	40.1823	40.9147	40.4853	1.9286e-01	5.8876e-01
99	PAB100136	38.9032	39.2237	39.0396	8.6997e-02	5.8815e-01
100	PAB125136	38.3944	38.6690	38.5235	5.8264e-02	5.8794e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4704	40.8132	40.1931	3.9677e-01	7.5670e-01
102	PRV000001	19.7186	19.8406	19.7235	2.4164e-02	7.5162e-01
103	PSR000001	37.2472	37.3693	37.3156	6.1209e-02	7.5578e-01
104	PFM000001	23.5220	23.9797	23.7490	1.2979e-01	5.0351e-01
105	PAN000136	45.8207	68.2512	55.2690	5.8137e+00	4.9219e+00
106	PFM000002	23.5585	23.8773	23.7172	8.0737e-02	2.0860e-01
107	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-0.9424	-5.3403	2.4763e+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	199.0948	199.6807	199.2666	1.5605e-01	1.4441e+00
113	VPW000002	232.9139	233.6952	233.2226	1.4812e-01	1.6169e+00
114	VPW000003	289.4193	290.0052	289.7434	1.2853e-01	1.9179e+00
115	VPW000004	204.6687	205.2546	204.8993	1.5124e-01	1.4722e+00
116	VPW000005	273.0506	273.8319	273.3788	1.4466e-01	1.8294e+00
117	VPW000006	291.2297	292.0110	291.5694	1.7114e-01	1.9278e+00
118	IPW000001	1053.0642	1060.8735	1056.5394	1.5920e+00	1.1631e+01
119	IPW000002	2475.0352	2492.5967	2481.4751	5.6063e+00	2.1211e+01
120	IPW000003	2505.7498	2509.6499	2507.1934	1.2954e+00	2.1399e+01
121	IPW000004	725.4075	730.7786	729.2552	1.4181e+00	6.0984e+00
122	IPW000005	484.4955	485.9602	485.1596	3.3826e-01	4.3232e+00
123	IPW000006	497.5962	499.5493	498.4162	4.5677e-01	4.4163e+00
124	EMPTY	-0.0293	-0.0146	-0.0196	3.7551e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0130	2.8946e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0160	3.8257e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0171	3.3087e-03	0.0000e+00
128	IHT000001	244.1481	246.8825	245.7146	5.9646e-01	4.7799e+00
129	IHT000002	251.1268	253.6658	252.7167	5.5525e-01	4.8163e+00
130	IHT000003	253.2076	256.1373	254.9147	5.5777e-01	4.8279e+00
131	IHT000004	248.9596	251.3033	250.0690	5.4596e-01	4.8024e+00
132	IHT000005	246.4543	248.9934	247.7471	5.1128e-01	4.7904e+00
133	IHT000006	240.7940	243.1378	241.7744	5.1219e-01	4.7598e+00
134	IHT000007	250.5259	252.6743	251.6780	5.3416e-01	4.8108e+00
135	IHT000008	247.7389	249.8873	248.8444	5.2141e-01	4.7961e+00
136	IHT000009	247.5323	250.0714	248.6299	5.4375e-01	4.7950e+00
137	IHT000010	78.6471	81.1861	80.0494	6.2973e-01	4.1774e+00
138	IHT000011	247.8853	250.8150	249.4636	6.2245e-01	4.7993e+00
139	IHT000012	243.7425	246.4769	245.1448	6.8081e-01	4.7770e+00
140	IHT000013	177.3438	179.6875	178.6133	6.4265e-01	4.4722e+00
141	IHT000014	244.7491	247.6788	246.2920	7.1491e-01	4.7829e+00
142	IHT000015	182.7073	185.2464	184.2621	6.6376e-01	4.4950e+00
143	IHT000016	169.9669	172.5060	171.4356	6.3041e-01	4.4440e+00
144	IHT000017	203.5081	206.6331	205.2815	6.7870e-01	4.5852e+00
145	IHT000018	205.5965	208.5261	207.2177	7.1382e-01	4.5939e+00
146	IHT000019	199.7671	202.1109	200.7477	6.1825e-01	4.5651e+00
147	IHT000020	206.0021	208.7365	207.0098	6.3914e-01	4.5930e+00
148	IHT000021	-3.0086	0.3118	-1.6687	7.0477e-01	4.1000e+00
149	IHT000022	177.0395	179.7739	178.0864	6.0716e-01	4.4701e+00
150	IHT000023	201.2395	203.7786	202.3253	5.4413e-01	4.5720e+00
151	IHT000024	165.4710	168.0101	166.6039	5.2793e-01	4.4256e+00
152	IHT000025	200.4470	202.5954	201.2907	5.3879e-01	4.5675e+00
153	IHT000026	202.9823	205.3260	203.9550	5.2272e-01	4.5793e+00
154	IHT000027	172.8065	175.7362	174.3026	6.0825e-01	4.4551e+00
155	IHT000028	175.7099	178.2489	176.7802	6.0777e-01	4.4649e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.2996	204.0340	202.5732	6.2170e-01	4.5731e+00
157	IHT000030	205.0594	207.7937	206.5243	6.2297e-01	4.5908e+00
158	IHT000031	201.9306	204.6650	203.3056	6.0227e-01	4.5764e+00
159	IHT000032	204.3983	207.3280	205.9335	6.1131e-01	4.5881e+00
160	IHT000033	204.4208	207.3505	205.8896	6.2170e-01	4.5879e+00
161	IHT000034	179.8753	182.2190	181.1878	5.2205e-01	4.4825e+00
162	IHT000035	237.1995	239.9339	238.5471	5.3270e-01	4.7435e+00
163	IHT000036	177.7607	180.2997	179.0888	4.6855e-01	4.4741e+00

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sum2

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Velocity 1 = 12.4887 (ft/sec) (+/- 1.9726 %)
Velocity 2 = 12.4692 (ft/sec) (+/- 1.7139 %)
Pressure drop = 2.0727 (psi)
Tsat in = 267.8473 (deg F) Tsat out = 264.8400 (deg F)
Phi inner = 375.7261 (kBtu/hr-ft2) (+/- 1.2158 %)
Phi outer = 374.6325 (kBtu/hr-ft2) (+/- 1.2313 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.5519	83.1877	82.8105	1.7805e-01	1.9001e+00
1	TRF000002	82.6820	83.3145	83.0109	1.3577e-01	1.9001e+00
2	TFM000001	85.7580	86.7040	86.3823	1.7550e-01	1.9002e+00
3	TIN000001	85.5222	86.0495	85.8028	1.2706e-01	1.9002e+00
4	TRV000001	87.4328	88.2710	87.9252	1.8947e-01	1.9002e+00
5	TSR000001	165.8183	170.7328	168.7821	1.2489e+00	1.9066e+00
6	TAO020136	135.5848	156.2009	144.1337	5.6472e+00	1.9037e+00
7	TAO050136	203.9019	205.1479	204.4335	3.0173e-01	1.9121e+00
8	TAO070136	203.0196	204.9538	204.0237	4.4162e-01	1.9121e+00
9	TAO080136	244.1818	246.1360	245.3084	4.0536e-01	1.9206e+00
10	TAO090136	257.9381	259.6093	259.0355	3.9750e-01	1.9239e+00
11	TAO100136	252.6345	254.2177	253.3966	3.4984e-01	1.9225e+00
12	TAO105136	258.3466	259.3711	258.8886	2.9245e-01	1.9239e+00
13	TAO110136	91.1879	91.7110	91.4828	1.4234e-01	1.9003e+00
14	TAO115136	259.8651	260.9806	260.3359	2.8249e-01	1.9243e+00
15	TAO120136	286.3227	287.1469	286.7384	1.8434e-01	1.9314e+00
16	TAO125136	266.6918	267.9852	267.2367	3.0085e-01	1.9260e+00
17	TAO130136	276.5196	277.8810	277.2079	3.2254e-01	1.9287e+00
18	TAO120048	117.1173	118.3474	117.8122	3.1626e-01	1.9015e+00
19	TAO130048	290.4622	291.7338	291.1506	2.8235e-01	1.9327e+00
20	TAO120224	281.4813	282.3988	281.9422	2.5291e-01	1.9300e+00
21	TAO130224	264.4261	265.6218	264.9806	2.5359e-01	1.9254e+00
22	TAO120312	268.7621	271.4426	270.0729	6.0676e-01	1.9268e+00
23	TAO130312	279.8420	280.7581	280.3567	2.2599e-01	1.9296e+00
24	TRT020000	210.4064	211.6556	211.0657	2.8784e-01	1.9134e+00
25	TRT070000	254.3253	257.1402	255.9343	5.4264e-01	1.9231e+00
26	TRT100000	283.7235	285.8258	284.8409	4.3097e-01	1.9308e+00
27	TRT120000	458.0045	458.2617	458.1568	7.9778e-02	1.9989e+00
28	TRT125000	93.0566	93.8892	93.4872	2.1212e-01	1.9004e+00
29	TRT130000	282.6337	284.1896	283.4997	3.6915e-01	1.9305e+00
30	EMPTY	39.3761	40.2940	39.7571	1.8319e-01	1.9011e+00
31	TAF050136	139.1659	141.2735	140.2032	4.9490e-01	1.9033e+00
32	TAF070136	161.1703	162.6501	161.8879	3.3152e-01	1.9057e+00
33	TAF080136	251.0900	254.7937	253.0144	7.7049e-01	1.9224e+00
34	TAF090136	90.4683	91.3070	90.8603	2.4731e-01	1.9003e+00
35	TAF100136	194.3850	195.6458	194.8795	2.3872e-01	1.9105e+00
36	TAF105136	199.8213	201.0661	200.3719	3.0657e-01	1.9114e+00
37	TAF110136	207.1492	208.4904	207.7721	3.1687e-01	1.9127e+00
38	TAF115136	213.7416	215.2688	214.4962	3.6068e-01	1.9140e+00
39	TAF120136	251.9519	253.4395	252.8015	3.2716e-01	1.9224e+00
40	TAF125136	225.0567	226.5624	225.8053	3.2976e-01	1.9163e+00
41	TAF130136	233.0031	236.2964	234.2773	6.4523e-01	1.9181e+00
42	TAF120048	246.7306	255.1917	252.0986	1.8760e+00	1.9222e+00
43	TAF130048	262.2889	263.4943	263.0366	2.2667e-01	1.9249e+00
44	TAF120224	214.3831	215.8142	215.0767	3.3108e-01	1.9141e+00
45	TAF130224	222.4335	223.5805	223.0513	2.2779e-01	1.9157e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0940	1.6806e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9683	1.1440e-01	1.9011e+00
48	TAI130048	272.0437	273.2438	272.6179	2.7344e-01	1.9275e+00
49	TAI130136	284.5125	285.6105	285.2239	2.2412e-01	1.9310e+00
50	TAI130224	276.4273	278.0877	277.4994	4.0349e-01	1.9288e+00
51	TAI130312	270.5766	272.4246	271.5320	3.3691e-01	1.9272e+00
52	TRR130000	134.3335	137.7583	136.4714	7.6784e-01	1.9030e+00
53	TSI000001	59.7306	60.4825	60.0254	1.6056e-01	1.9001e+00
54	TSI000002	78.1346	80.3499	79.1711	5.3153e-01	1.9001e+00
55	TSO000001	56.5627	57.3211	56.9289	2.1298e-01	1.9001e+00
56	TSO000002	79.3672	80.3197	79.8394	2.1499e-01	1.9001e+00
57	TAF020136	103.5731	105.8674	104.6683	5.9431e-01	1.9008e+00
58	TAF120312	225.1405	227.4198	226.3167	5.0779e-01	1.9164e+00
59	TAF130312	241.8202	243.6960	242.6478	4.3261e-01	1.9200e+00
60	EMPTY	4.1016	4.1211	4.1088	6.1002e-03	0.0000e+00
61	EMPTY	4.0820	4.1016	4.0922	5.1107e-03	0.0000e+00
62	EMPTY	4.0674	4.0869	4.0746	4.9560e-03	0.0000e+00
63	EMPTY	4.0576	4.0771	4.0673	4.7811e-03	0.0000e+00
64	EMPTY	1.9482	1.9580	1.9521	2.6100e-03	0.0000e+00
65	EMPTY	1.9629	1.9678	1.9662	2.3008e-03	0.0000e+00
66	EMPTY	1.9678	1.9775	1.9729	2.2945e-03	0.0000e+00
67	EMPTY	1.9775	1.9873	1.9836	2.3261e-03	0.0000e+00
68	EMPTY	1.9873	1.9971	1.9900	2.6396e-03	0.0000e+00
69	EMPTY	1.9971	2.0020	1.9996	2.4642e-03	0.0000e+00
70	EMPTY	2.0020	2.0068	2.0067	6.9053e-04	0.0000e+00
71	EMPTY	2.0166	2.0264	2.0214	1.5566e-03	0.0000e+00
72	EMPTY	2.0264	2.0313	2.0268	1.3381e-03	0.0000e+00
73	EMPTY	2.0361	2.0410	2.0395	2.3008e-03	0.0000e+00
74	EMPTY	2.0410	2.0508	2.0460	1.2041e-03	0.0000e+00
75	EMPTY	2.0508	2.0605	2.0558	1.2041e-03	0.0000e+00
76	EMPTY	2.0605	2.0703	2.0634	2.6267e-03	0.0000e+00
77	EMPTY	2.0703	2.0752	2.0750	9.6655e-04	0.0000e+00
78	EMPTY	2.0850	2.0947	2.0898	9.8648e-04	0.0000e+00
79	EMPTY	2.1045	2.1094	2.1048	1.1714e-03	0.0000e+00
80	PAN020136	-10.0619	6.8754	-0.9615	3.9820e+00	8.7000e-01
81	PAN050136	-8.6544	18.6588	4.6329	4.9824e+00	1.6800e+00
82	PAN070136	-15.6517	5.8632	-1.5038	4.8159e+00	8.7001e-01
83	PAN080136	0.8452	25.2593	10.5498	5.7323e+00	8.7040e-01
84	PAN090136	-3.2571	16.1979	7.8406	4.8907e+00	8.7022e-01
85	PAN100136	6.1961	20.2342	11.7900	3.4042e+00	8.7050e-01
86	PAN105136	0.7666	6.8701	2.8296	1.3408e+00	8.7003e-01
87	PAN110136	2.6961	6.2056	4.0266	8.7399e-01	8.7006e-01
88	PAN115136	-0.4643	4.0370	2.9674	7.3332e-01	8.7003e-01
89	PAN120136	1.9493	7.1373	4.0748	7.9317e-01	8.7006e-01
90	PAN125136	3.3518	6.0221	4.2430	5.6412e-01	8.7006e-01
91	PAN130136	5.0642	6.5900	5.8927	3.6573e-01	8.7012e-01
92	PAN120048	-0.2038	2.3902	1.2672	4.9995e-01	8.7001e-01
93	PAN130048	57.2441	68.5356	62.6289	2.4505e+00	8.8398e-01
94	PAN120224	4.1904	8.8443	6.4655	7.3788e-01	8.7015e-01
95	PAN130224	10.6799	13.8842	11.8045	6.9768e-01	8.7050e-01
96	PAN120312	28.4652	34.1109	31.3735	1.3308e+00	8.7353e-01
97	PAN130312	14.8070	17.4773	15.9789	5.9990e-01	8.7092e-01
98	PAB000136	40.0450	40.6401	40.3224	1.4399e-01	5.8869e-01
99	PAB100136	38.7201	39.1321	38.8812	8.9302e-02	5.8809e-01
100	PAB125136	38.2570	38.4859	38.3349	5.0865e-02	5.8786e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4704	40.6911	40.0881	3.3399e-01	7.5667e-01
102	PRV000001	19.7186	19.7186	19.7186	1.9267e-06	7.5162e-01
103	PSR000001	36.8810	37.1251	37.0201	4.9385e-02	7.5569e-01
104	PFM000001	23.5220	24.1629	23.8717	1.5985e-01	5.0355e-01
105	PAN000136	49.4828	66.4201	57.3839	3.9049e+00	4.9221e+00
106	PFM000002	23.6088	23.9444	23.7968	9.2902e-02	2.0866e-01
107	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-0.8643	-5.7782	2.7898e+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	VPW0000001	198.8995	199.2901	199.1104	1.2378e-01	1.4434e+00
113	VPW0000002	233.1092	233.3046	233.2030	9.8569e-02	1.6168e+00
114	VPW0000003	289.4193	290.0052	289.7317	1.1161e-01	1.9178e+00
115	VPW0000004	204.4734	205.2546	204.7509	1.3141e-01	1.4715e+00
116	VPW0000005	273.0506	274.0272	273.2890	1.6408e-01	1.8289e+00
117	VPW0000006	291.2297	291.6204	291.4093	1.2378e-01	1.9270e+00
118	IPW0000001	1045.2548	1058.9211	1051.3464	2.3548e+00	1.1601e+01
119	IPW0000002	2457.4739	2476.9866	2470.7820	3.3610e+00	2.1133e+01
120	IPW0000003	2503.7998	2515.4998	2510.4688	2.2317e+00	2.1423e+01
121	IPW0000004	725.4075	729.3137	726.7553	9.7935e-01	6.0797e+00
122	IPW0000005	480.1014	483.0308	481.7324	8.4051e-01	4.2992e+00
123	IPW0000006	495.1548	499.5493	498.0451	9.4021e-01	4.4137e+00
124	EMPTY	-0.0244	-0.0146	-0.0196	3.1950e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0135	3.2057e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0144	3.6124e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0179	3.0581e-03	0.0000e+00
128	IHT0000001	243.9528	247.0778	245.6365	6.7990e-01	4.7795e+00
129	IHT0000002	251.1268	254.0565	252.5995	6.5579e-01	4.8157e+00
130	IHT0000003	253.4030	256.5280	255.0319	7.0874e-01	4.8285e+00
131	IHT0000004	248.3736	251.4986	250.1237	7.0250e-01	4.8027e+00
132	IHT0000005	246.0637	248.7981	247.7901	6.5478e-01	4.7906e+00
133	IHT0000006	240.0128	242.7471	241.7510	6.7341e-01	4.7597e+00
134	IHT0000007	249.7446	252.6743	251.5804	6.5673e-01	4.8103e+00
135	IHT0000008	246.9576	249.8873	248.6960	6.4144e-01	4.7953e+00
136	IHT0000009	246.5557	249.8760	248.3994	6.2535e-01	4.7938e+00
137	IHT0000010	78.4518	81.1861	80.0025	6.4526e-01	4.1773e+00
138	IHT0000011	248.0807	250.4244	249.3737	5.4088e-01	4.7988e+00
139	IHT0000012	243.7425	246.2816	245.0589	5.6056e-01	4.7765e+00
140	IHT0000013	177.3438	179.4922	178.5664	5.1722e-01	4.4720e+00
141	IHT0000014	244.5538	247.2882	246.2334	5.4818e-01	4.7826e+00
142	IHT0000015	182.5120	185.0511	184.0394	5.4774e-01	4.4941e+00
143	IHT0000016	169.7716	172.3107	171.2716	5.4739e-01	4.4434e+00
144	IHT0000017	203.7034	206.6331	205.4808	6.0264e-01	4.5861e+00
145	IHT0000018	205.9871	208.3308	207.2411	6.0243e-01	4.5940e+00
146	IHT0000019	199.1812	201.7202	200.7320	5.6000e-01	4.5650e+00
147	IHT0000020	205.6115	207.9552	207.0723	5.6530e-01	4.5932e+00
148	IHT0000021	-3.3992	-0.4695	-1.6297	6.3798e-01	4.1000e+00
149	IHT0000022	176.6489	178.9926	178.0825	4.7451e-01	4.4700e+00
150	IHT0000023	200.6536	203.5833	202.2862	5.4356e-01	4.5719e+00
151	IHT0000024	165.0804	167.6195	166.5844	4.9481e-01	4.4255e+00
152	IHT0000025	200.0564	202.7907	201.2321	5.1067e-01	4.5672e+00
153	IHT0000026	202.9823	204.7401	203.9238	5.2153e-01	4.5791e+00
154	IHT0000027	173.1971	175.3456	174.2362	5.4023e-01	4.4549e+00
155	IHT0000028	175.1239	179.0302	176.8271	7.8129e-01	4.4651e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	201.1043	204.6199	202.6708	7.8571e-01	4.5736e+00
157	IHT000030	204.8640	208.5750	206.6376	8.1523e-01	4.5913e+00
158	IHT000031	201.7353	205.4462	203.4228	8.1036e-01	4.5769e+00
159	IHT000032	204.2030	207.5233	205.9960	7.8591e-01	4.5884e+00
160	IHT000033	204.0302	207.5458	205.9287	8.0871e-01	4.5881e+00
161	IHT000034	179.6800	182.4144	181.1449	5.9745e-01	4.4823e+00
162	IHT000035	237.0042	239.5433	238.5003	5.9400e-01	4.7432e+00
163	IHT000036	177.7607	180.1044	179.0185	5.4841e-01	4.4738e+00

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Velocity 1 = 0.031899 (ft/sec)

Velocity 2 = 0.020700 (ft/sec)

Pressure Drop = 0.076400 (psi)

Tsat in = 0.240723 (deg F) Tsat out = 0.291290 (deg F)

Phi inner = 0.315094 (kBtu/hr-ft2) Phi outer = 1.877197 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0212	0.0256
1	TRF000002	0.0380	0.0457
2	TFM000001	0.0043	0.0050
3	TIN000001	0.0253	0.0295
4	TRV000001	0.1339	0.1521
5	TSR000001	2.0773	1.2158
6	TAO020136	12.7660	8.1364
7	TAO050136	0.5166	0.2521
8	TAO070136	0.4950	0.2420
9	TAO080136	1.0430	0.4234
10	TAO090136	0.6047	0.2329
11	TAO100136	0.8343	0.3282
12	TAO105136	0.6069	0.2339
13	TAO110136	0.4523	0.4920
14	TAO115136	0.7693	0.2946
15	TAO120136	0.8017	0.2788
16	TAO125136	0.4503	0.1682
17	TAO130136	0.7290	0.2623
18	TAO120048	0.0492	0.0417
19	TAO130048	1.1852	0.4054
20	TAO120224	1.1255	0.3976
21	TAO130224	1.0273	0.3862
22	TAO120312	0.0222	0.0082
23	TAO130312	0.3297	0.1175
24	TRT020000	0.3612	0.1714
25	TRT070000	0.6982	0.2735
26	TRT100000	0.7671	0.2700
27	TRT120000	0.0241	0.0053
28	TRT125000	0.3283	0.3499
29	TRT130000	0.1573	0.0555
30	EMPTY	0.0229	0.0576
31	TAF050136	0.1848	0.1316
32	TAF070136	0.2565	0.1582
33	TAF080136	0.6446	0.2541
34	TAF090136	1.3088	1.4200
35	TAF100136	0.3066	0.1571
36	TAF105136	0.2950	0.1470
37	TAF110136	0.3789	0.1820
38	TAF115136	0.3929	0.1828
39	TAF120136	0.4678	0.1847
40	TAF125136	0.2976	0.1316
41	TAF130136	0.3655	0.1558
42	TAF120048	5.5604	2.2554
43	TAF130048	0.1000	0.0380
44	TAF120224	0.6031	0.2796
45	TAF130224	0.7682	0.3432

#	Name	Abs Diff	%Diff
46	EMPTY	0.0000	0.0000
47	EMPTY	0.0413	0.1034
48	TAI130048	0.3872	0.1418
49	TAI130136	0.2047	0.0717
50	TAI130224	0.9624	0.3456
51	TAI130312	0.9681	0.3553
52	TRR130000	1.2525	0.9263
53	TSI000001	0.1330	0.2211
54	TSI000002	1.4426	1.7895
55	TSO000001	0.0218	0.0383
56	TSO000002	0.0126	0.0158
57	TAF020136	0.2084	0.1987
58	TAF120312	0.5050	0.2236
59	TAF130312	0.2399	0.0990
60	EMPTY	0.0089	0.2171
61	EMPTY	0.0103	0.2523
62	EMPTY	0.0100	0.2460
63	EMPTY	0.0107	0.2638
64	EMPTY	0.0044	0.2259
65	EMPTY	0.0066	0.3368
66	EMPTY	0.0052	0.2643
67	EMPTY	0.0059	0.2983
68	EMPTY	0.0071	0.3581
69	EMPTY	0.0066	0.3312
70	EMPTY	0.0060	0.2999
71	EMPTY	0.0059	0.2927
72	EMPTY	0.0055	0.2721
73	EMPTY	0.0078	0.3839
74	EMPTY	0.0053	0.2597
75	EMPTY	0.0052	0.2536
76	EMPTY	0.0076	0.3697
77	EMPTY	0.0073	0.3531
78	EMPTY	0.0075	0.3602
79	EMPTY	0.0055	0.2620
80	PAN020136	0.8773	1041.9240
81	PAN050136	0.4578	8.9929
82	PAN070136	0.2212	12.8232
83	PAN080136	1.7227	14.0371
84	PAN090136	3.9199	99.9796
85	PAN100136	0.5691	4.6047
86	PAN105136	0.5569	24.5039
87	PAN110136	0.3051	8.1983
88	PAN115136	0.2960	9.0703
89	PAN120136	0.4639	12.8472
90	PAN125136	0.3693	9.5335
91	PAN130136	0.1389	2.4141
92	PAN120048	0.3174	33.4176
93	PAN130048	6.9854	12.5538
94	PAN120224	0.4303	6.2400
95	PAN130224	0.9674	8.9267
96	PAN120312	2.7008	9.4194
97	PAN130312	0.8728	5.7778
98	PAB000136	0.1629	0.4024
99	PAB100136	0.1584	0.4057
100	PAB125136	0.1886	0.4896

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1050	0.2612
102	PRV000001	0.0049	0.0248
103	PSR000001	0.2955	0.7919
104	PFM000001	0.1227	0.5167
105	PAN000136	2.1149	3.8266
106	PFM000002	0.0796	0.3356
107	EMPTY	0.0000	0.0000
108	EMPTY	0.4379	8.1999
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.1562	0.0784
113	VPW000002	0.0196	0.0084
114	VPW000003	0.0117	0.0040
115	VPW000004	0.1484	0.0724
116	VPW000005	0.0898	0.0329
117	VPW000006	0.1601	0.0549
118	IPW000001	5.1930	0.4915
119	IPW000002	10.6931	0.4309
120	IPW000003	3.2754	0.1306
121	IPW000004	2.4999	0.3428
122	IPW000005	3.4272	0.7064
123	IPW000006	0.3711	0.0745
124	EMPTY	0.0000	0.0000
125	EMPTY	0.0005	3.8462
126	EMPTY	0.0016	10.0000
127	EMPTY	0.0008	4.6784
128	IHT000001	0.0781	0.0318
129	IHT000002	0.1172	0.0464
130	IHT000003	0.1172	0.0460
131	IHT000004	0.0547	0.0219
132	IHT000005	0.0430	0.0174
133	IHT000006	0.0234	0.0097
134	IHT000007	0.0976	0.0388
135	IHT000008	0.1484	0.0596
136	IHT000009	0.2305	0.0927
137	IHT000010	0.0469	0.0586
138	IHT000011	0.0899	0.0360
139	IHT000012	0.0859	0.0350
140	IHT000013	0.0469	0.0263
141	IHT000014	0.0586	0.0238
142	IHT000015	0.2227	0.1209
143	IHT000016	0.1640	0.0957
144	IHT000017	0.1993	0.0971
145	IHT000018	0.0234	0.0113
146	IHT000019	0.0157	0.0078
147	IHT000020	0.0625	0.0302
148	IHT000021	0.0390	2.3372
149	IHT000022	0.0039	0.0022
150	IHT000023	0.0391	0.0193
151	IHT000024	0.0195	0.0117
152	IHT000025	0.0586	0.0291
153	IHT000026	0.0312	0.0153
154	IHT000027	0.0664	0.0381
155	IHT000028	0.0469	0.0265

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dif

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0976	0.0482
157	IHT000030	0.1133	0.0549
158	IHT000031	0.1172	0.0576
159	IHT000032	0.0625	0.0303
160	IHT000033	0.0391	0.0190
161	IHT000034	0.0429	0.0237
162	IHT000035	0.0468	0.0196
163	IHT000036	0.0703	0.0393

Velocity 1 = 26.0797 (ft/sec) (+/- 1.6886 %)
Velocity 2 = 13.4155 (ft/sec) (+/- 1.7033 %)
Pressure drop = 20.3128 (psi)
Tsats in = 267.4751 (deg F) Tsats out = 227.9877 (deg F)
Phi inner = 99.2774 (kBtu/hr-ft2) (+/- 1.4169 %)
Phi outer = 100.6076 (kBtu/hr-ft2) (+/- 1.5417 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.7037	82.1279	81.9413	1.7479e-01	1.9001e+00
1	TRF000002	81.8382	82.2602	82.1040	1.1123e-01	1.9001e+00
2	TFM000001	87.3283	88.2716	87.7162	2.2451e-01	1.9002e+00
3	TIN000001	86.7854	87.3121	87.0320	1.2344e-01	1.9002e+00
4	TRV000001	87.5309	88.4740	87.9733	2.2712e-01	1.9002e+00
5	TSR000001	106.5493	107.4780	107.0590	2.1284e-01	1.9009e+00
6	TAO020136	61.7360	63.7767	62.6537	4.9063e-01	1.9000e+00
7	TAO050136	106.6537	107.2725	106.9655	1.6960e-01	1.9009e+00
8	TAO070136	106.4563	108.0145	107.2731	3.6338e-01	1.9009e+00
9	TAO080136	92.6055	119.9361	105.3614	7.1171e+00	1.9008e+00
10	TAO090136	115.9741	116.5895	116.2466	1.4887e-01	1.9014e+00
11	TAO100136	112.8052	113.5257	113.1409	1.5399e-01	1.9013e+00
12	TAO105136	114.7318	115.6582	115.2240	2.1937e-01	1.9014e+00
13	TAO110136	78.9849	79.6158	79.3100	1.7045e-01	1.9001e+00
14	TAO115136	113.5904	114.5164	114.0410	2.1491e-01	1.9013e+00
15	TAO120136	119.3406	119.9559	119.6463	1.6625e-01	1.9017e+00
16	TAO125136	77.9255	79.0878	78.5279	2.4158e-01	1.9000e+00
17	TAO130136	116.2959	116.8071	116.5110	1.0951e-01	1.9015e+00
18	TAO120048	82.5128	83.5672	83.0971	2.5115e-01	1.9001e+00
19	TAO130048	118.0011	118.5138	118.2125	1.3789e-01	1.9016e+00
20	TAO120224	118.5185	119.2359	118.9632	1.7522e-01	1.9016e+00
21	TAO130224	113.7064	114.6265	114.1176	2.0469e-01	1.9013e+00
22	TAO120312	116.9207	117.6400	117.3584	1.4791e-01	1.9015e+00
23	TAO130312	117.6678	118.4864	118.0873	1.6834e-01	1.9016e+00
24	TRT020000	107.4614	108.1872	107.8410	1.7719e-01	1.9010e+00
25	TRT070000	113.5720	114.3995	114.0169	1.6224e-01	1.9013e+00
26	TRT100000	118.5644	119.3823	118.9917	1.9557e-01	1.9016e+00
27	TRT120000	457.3205	457.5772	457.4388	7.9045e-02	1.9986e+00
28	TRT125000	78.7365	79.5793	79.1184	2.0937e-01	1.9001e+00
29	TRT130000	119.5472	120.2635	119.8278	1.5579e-01	1.9017e+00
30	EMPTY	39.3761	40.0646	39.7388	2.2282e-01	1.9011e+00
31	TAF050136	94.2044	94.8302	94.5114	1.4048e-01	1.9004e+00
32	TAF070136	97.3188	98.2535	97.6579	1.8390e-01	1.9005e+00
33	TAF080136	112.0670	113.0909	112.5610	2.7383e-01	1.9012e+00
34	TAF090136	79.9592	81.0147	80.5141	2.9761e-01	1.9001e+00
35	TAF100136	101.2394	101.9679	101.6371	1.7294e-01	1.9007e+00
36	TAF105136	101.9650	103.0997	102.5486	2.5093e-01	1.9007e+00
37	TAF110136	102.9632	103.5849	103.3094	1.5881e-01	1.9007e+00
38	TAF115136	104.4965	105.2215	104.8590	1.5948e-01	1.9008e+00
39	TAF120136	109.0992	109.7171	109.3654	1.5024e-01	1.9010e+00
40	TAF125136	105.4360	106.5682	106.0473	2.8186e-01	1.9009e+00
41	TAF130136	106.3806	106.7948	106.5487	1.1992e-01	1.9009e+00
42	TAF120048	105.8257	106.5542	106.2065	1.6224e-01	1.9009e+00
43	TAF130048	107.1081	107.6258	107.3505	1.3485e-01	1.9009e+00
44	TAF120224	104.4426	105.2712	104.8589	2.2968e-01	1.9008e+00
45	TAF130224	105.2273	105.7471	105.4957	1.6822e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0756	2.1593e-01	1.9010e+00
47	EMPTY	38.9168	39.6057	39.2796	1.3196e-01	1.9010e+00
48	TAI130048	114.1891	115.4220	114.7541	3.0094e-01	1.9013e+00
49	TAI130136	117.5600	118.5835	118.0574	2.0880e-01	1.9016e+00
50	TAI130224	120.2337	121.4638	120.8307	3.2856e-01	1.9017e+00
51	TAI130312	115.1691	115.8895	115.5993	1.7101e-01	1.9014e+00
52	TRR130000	104.0325	105.5822	104.7539	3.0251e-01	1.9008e+00
53	TSI000001	58.0103	58.6557	58.3053	1.6955e-01	1.9001e+00
54	TSI000002	85.0796	86.9692	86.2491	4.3231e-01	1.9002e+00
55	TSO000001	56.2413	57.3230	56.7583	2.2007e-01	1.9001e+00
56	TSO000002	62.3265	63.2923	62.7323	2.4458e-01	1.9000e+00
57	TAF020136	89.3029	90.0420	89.7190	1.8626e-01	1.9003e+00
58	TAF120312	104.1899	105.0200	104.6983	2.4086e-01	1.9008e+00
59	TAF130312	106.8656	107.4861	107.1657	1.5948e-01	1.9009e+00
60	EMPTY	0.7861	0.7959	0.7910	9.8648e-04	0.0000e+00
61	EMPTY	0.8008	0.8057	0.8012	1.3381e-03	0.0000e+00
62	EMPTY	0.8105	0.8154	0.8107	9.6655e-04	0.0000e+00
63	EMPTY	0.8203	0.8252	0.8251	6.9053e-04	0.0000e+00
64	EMPTY	0.5127	0.5176	0.5156	2.4164e-03	0.0000e+00
65	EMPTY	0.5371	0.5420	0.5378	1.7115e-03	0.0000e+00
66	EMPTY	0.5518	0.5566	0.5548	2.3941e-03	0.0000e+00
67	EMPTY	0.5713	0.5762	0.5750	2.1065e-03	0.0000e+00
68	EMPTY	0.5859	0.5908	0.5893	2.3008e-03	0.0000e+00
69	EMPTY	0.6055	0.6104	0.6064	1.9730e-03	0.0000e+00
70	EMPTY	0.6201	0.6250	0.6213	2.1065e-03	0.0000e+00
71	EMPTY	0.6445	0.6494	0.6458	2.1635e-03	0.0000e+00
72	EMPTY	0.6592	0.6641	0.6598	1.6028e-03	0.0000e+00
73	EMPTY	0.6787	0.6836	0.6820	2.3008e-03	0.0000e+00
74	EMPTY	0.6982	0.6982	0.6982	0.0000e+00	0.0000e+00
75	EMPTY	0.7129	0.7178	0.7177	6.9053e-04	0.0000e+00
76	EMPTY	0.7275	0.7324	0.7320	1.3381e-03	0.0000e+00
77	EMPTY	0.7471	0.7568	0.7518	1.3811e-03	0.0000e+00
78	EMPTY	0.7715	0.7764	0.7737	2.4583e-03	0.0000e+00
79	EMPTY	0.7910	0.7959	0.7957	9.6655e-04	0.0000e+00
80	PAN020136	48.8370	52.8043	50.9992	1.1520e+00	8.7929e-01
81	PAN050136	134.0153	135.8463	134.9857	4.0753e-01	1.7136e+00
82	PAN070136	87.8029	89.2525	88.5765	3.4120e-01	8.9774e-01
83	PAN080136	51.6570	52.8777	52.1941	2.6292e-01	8.7973e-01
84	PAN090136	35.7291	36.7210	36.1396	1.9672e-01	8.7468e-01
85	PAN100136	43.0461	44.1142	43.6488	2.2297e-01	8.7682e-01
86	PAN105136	22.0526	23.0445	22.6401	2.2350e-01	8.7184e-01
87	PAN110136	34.8921	35.5788	35.2919	1.4749e-01	8.7446e-01
88	PAN115136	29.1377	29.5192	29.3422	1.1783e-01	8.7309e-01
89	PAN120136	29.6440	30.3306	29.9781	1.7634e-01	8.7322e-01
90	PAN125136	20.3654	21.3572	20.8354	1.7733e-01	8.7156e-01
91	PAN130136	13.1513	13.5328	13.3665	9.2083e-02	8.7064e-01
92	PAN120048	41.5290	42.3682	41.9471	1.8512e-01	8.7630e-01
93	PAN130048	51.6747	52.5139	52.0790	2.0053e-01	8.7969e-01
94	PAN120224	57.6725	58.5117	58.1073	2.0230e-01	8.8204e-01
95	PAN130224	36.7724	37.5354	37.1219	1.7849e-01	8.7494e-01
96	PAN120312	39.7567	40.5959	40.1748	1.9018e-01	8.7578e-01
97	PAN130312	51.9621	52.7251	52.3558	1.7666e-01	8.7979e-01
98	PAB000136	39.9076	40.3196	40.0715	8.7780e-02	5.8859e-01
99	PAB100136	25.0330	25.2161	25.0998	4.7347e-02	5.8338e-01
100	PAB125136	19.9923	20.1754	20.1022	4.6241e-02	5.8217e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.3483	40.2028	39.7195	1.6719e-01	7.5654e-01
102	PRV0000001	19.3524	19.4744	19.4598	4.0071e-02	7.5158e-01
103	PSR0000001	17.3497	17.4718	17.4547	4.2787e-02	7.5127e-01
104	PFM0000001	104.0884	105.6448	104.8996	3.9800e-01	5.6460e-01
105	PAN000136	558.9738	566.7558	562.3704	1.6649e+00	5.1169e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0146	0.0104	1.6028e-03	0.0000e+00
108	EMPTY	-10.0000	-2.7148	-4.9123	1.1385e+00	0.0000e+00
109	EMPTY	0.0049	0.0195	0.0094	2.3839e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0046	1.1714e-03	0.0000e+00
112	VPW0000001	101.6339	102.0245	101.8252	9.2456e-02	1.0146e+00
113	VPW0000002	118.4608	119.0467	118.7967	1.5303e-01	1.0790e+00
114	VPW0000003	146.8412	147.2318	147.0561	1.2633e-01	1.1978e+00
115	VPW0000004	104.4734	105.0593	104.6492	1.5409e-01	1.0249e+00
116	VPW0000005	139.0663	139.6522	139.2577	1.5020e-01	1.1637e+00
117	VPW0000006	147.2844	148.0657	147.6984	1.6096e-01	1.2006e+00
118	IPW0000001	568.8829	576.6923	572.2410	1.6753e+00	9.2761e+00
119	IPW0000002	1276.9558	1286.7122	1281.3654	2.3917e+00	1.2965e+01
120	IPW0000003	1302.5999	1308.4498	1305.3300	1.8053e+00	1.3113e+01
121	IPW0000004	385.0755	387.0286	386.0228	6.3480e-01	3.6469e+00
122	IPW0000005	253.5616	255.0263	254.0791	3.3319e-01	2.8335e+00
123	IPW0000006	260.2915	262.2446	261.2191	4.9570e-01	2.8738e+00
124	EMPTY	-0.0293	-0.0098	-0.0197	3.8155e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.8334e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0153	4.0685e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.5786e-03	0.0000e+00
128	IHT0000001	128.9137	131.0622	129.8004	4.6557e-01	4.3006e+00
129	IHT0000002	132.3768	134.5252	133.4237	4.6815e-01	4.3116e+00
130	IHT0000003	132.6998	134.8483	133.5630	4.3600e-01	4.3121e+00
131	IHT0000004	130.7955	133.1393	131.7994	4.8006e-01	4.3066e+00
132	IHT0000005	129.0715	131.6106	130.0832	4.6804e-01	4.3014e+00
133	IHT0000006	124.3878	126.7315	125.1963	4.7843e-01	4.2869e+00
134	IHT0000007	131.1899	133.3384	132.2720	4.5371e-01	4.3081e+00
135	IHT0000008	129.7701	131.5279	130.8013	4.2871e-01	4.3036e+00
136	IHT0000009	130.1495	132.1026	131.0986	4.5508e-01	4.3045e+00
137	IHT0000010	-40.2982	-38.1498	-39.2474	5.3217e-01	4.1187e+00
138	IHT0000011	130.1119	132.2603	131.1626	5.6344e-01	4.3047e+00
139	IHT0000012	127.7269	130.0706	128.7191	6.2246e-01	4.2973e+00
140	IHT0000013	91.6016	93.5547	92.5195	5.3416e-01	4.2031e+00
141	IHT0000014	127.5616	129.5147	128.6319	4.9006e-01	4.2970e+00
142	IHT0000015	95.2073	96.9651	96.0042	4.9417e-01	4.2109e+00
143	IHT0000016	88.9122	90.6701	89.7990	4.8361e-01	4.1972e+00
144	IHT0000017	105.6566	109.1722	107.1722	8.5505e-01	4.2378e+00
145	IHT0000018	107.5496	109.8933	108.5028	5.8079e-01	4.2411e+00
146	IHT0000019	103.8687	105.6265	104.8374	4.3933e-01	4.2319e+00
147	IHT0000020	106.7833	108.7365	107.7013	4.5034e-01	4.2391e+00
148	IHT0000021	-2.4226	0.1164	-1.3250	5.9174e-01	4.1000e+00
149	IHT0000022	92.8598	94.6176	93.6880	4.1490e-01	4.2057e+00
150	IHT0000023	104.7551	106.7083	105.5871	4.7484e-01	4.2338e+00
151	IHT0000024	69.9632	71.9163	70.6741	4.7311e-01	4.1605e+00
152	IHT0000025	105.1345	107.0876	106.0407	4.7311e-01	4.2349e+00
153	IHT0000026	105.5213	107.4745	106.4706	4.8490e-01	4.2360e+00
154	IHT0000027	90.3846	92.5330	91.3377	4.5273e-01	4.2005e+00
155	IHT0000028	91.7255	93.8739	92.7294	5.1902e-01	4.2036e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8152	107.1590	106.1395	5.4432e-01	4.2352e+00
157	IHT000030	107.2078	109.5515	108.4891	5.4413e-01	4.2411e+00
158	IHT000031	105.6415	108.1806	106.8877	5.6344e-01	4.2370e+00
159	IHT000032	107.1326	109.8670	108.2225	5.6647e-01	4.2404e+00
160	IHT000033	106.9599	109.6943	108.2021	5.5350e-01	4.2404e+00
161	IHT000034	93.9378	96.2815	94.9300	4.4963e-01	4.2085e+00
162	IHT000035	124.5042	126.6527	125.1683	4.2682e-01	4.2868e+00
163	IHT000036	92.7997	95.3388	93.5771	4.6770e-01	4.2054e+00

Velocity 1 = 26.0496 (ft/sec) (+/- 1.6887 %)
 Velocity 2 = 13.4141 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 20.3168 (psi)
 Tsat in = 267.4765 (deg F) Tsat out = 228.0704 (deg F)
 Phi inner = 99.5434 (kBtu/hr-ft2) (+/- 1.4161 %)
 Phi outer = 100.3961 (kBtu/hr-ft2) (+/- 1.5428 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.4916	82.1279	81.8140	1.8796e-01	1.9001e+00
1	TRF000002	81.8382	82.2602	81.9310	1.1407e-01	1.9001e+00
2	TFM000001	86.1729	86.9089	86.4595	1.7105e-01	1.9002e+00
3	TIN000001	85.3105	85.9436	85.6735	1.2458e-01	1.9002e+00
4	TRV000001	86.3799	87.2188	86.7949	2.0187e-01	1.9002e+00
5	TSR000001	105.9315	106.8597	106.4919	2.0021e-01	1.9009e+00
6	TAO020136	63.1332	65.2777	63.8794	4.2795e-01	1.9000e+00
7	TAO050136	105.2126	106.0396	105.6056	1.9230e-01	1.9009e+00
8	TAO070136	107.3915	108.2220	107.7198	2.1622e-01	1.9010e+00
9	TAO080136	89.5890	96.7543	91.1164	1.0146e+00	1.9003e+00
10	TAO090136	114.6403	115.4628	115.1254	1.8212e-01	1.9014e+00
11	TAO100136	111.5711	112.1903	111.8191	1.4734e-01	1.9012e+00
12	TAO105136	113.2903	114.4235	113.8881	2.0920e-01	1.9013e+00
13	TAO110136	79.0855	79.8231	79.3983	1.7153e-01	1.9001e+00
14	TAO115136	112.3544	113.2823	112.7176	2.1456e-01	1.9012e+00
15	TAO120136	117.9057	118.8291	118.3329	1.8701e-01	1.9016e+00
16	TAO125136	78.1366	79.2963	78.5504	2.4682e-01	1.9000e+00
17	TAO130136	114.8762	115.4911	115.2241	1.5868e-01	1.9014e+00
18	TAO120048	82.7228	83.9882	83.2040	2.8896e-01	1.9001e+00
19	TAO130048	116.5700	117.2880	116.9681	1.6008e-01	1.9015e+00
20	TAO120224	117.1863	118.2126	117.6873	1.8148e-01	1.9015e+00
21	TAO130224	112.3813	113.2991	112.8268	2.0022e-01	1.9012e+00
22	TAO120312	115.6886	116.4085	116.0668	1.5611e-01	1.9014e+00
23	TAO130312	116.4391	117.1571	116.8088	1.6321e-01	1.9015e+00
24	TRT020000	106.0106	106.9440	106.5457	2.1509e-01	1.9009e+00
25	TRT070000	112.4330	113.1574	112.8015	1.5946e-01	1.9012e+00
26	TRT100000	117.3367	118.1572	117.7674	2.0375e-01	1.9015e+00
27	TRT120000	457.1495	457.4919	457.3174	8.8124e-02	1.9985e+00
28	TRT125000	79.1547	80.2091	79.6526	1.8929e-01	1.9001e+00
29	TRT130000	118.2194	118.9364	118.5469	1.4789e-01	1.9016e+00
30	EMPTY	39.3761	40.2940	39.7434	2.3185e-01	1.9011e+00
31	TAF050136	92.6431	93.4778	93.0644	1.8261e-01	1.9004e+00
32	TAF070136	95.9711	96.8002	96.3452	1.7915e-01	1.9005e+00
33	TAF080136	110.6364	111.8653	111.2578	2.4991e-01	1.9011e+00
34	TAF090136	79.6410	80.9091	80.2710	2.7637e-01	1.9001e+00
35	TAF100136	99.8866	100.6160	100.3074	1.9631e-01	1.9006e+00
36	TAF105136	100.9326	101.5533	101.2400	1.8725e-01	1.9007e+00
37	TAF110136	101.7214	102.2412	101.9794	1.3945e-01	1.9007e+00
38	TAF115136	103.0483	103.8782	103.5956	1.8594e-01	1.9008e+00
39	TAF120136	107.6597	108.3816	108.0808	1.5579e-01	1.9010e+00
40	TAF125136	104.2015	105.3348	104.8531	3.0083e-01	1.9008e+00
41	TAF130136	104.9346	105.5568	105.3076	1.5372e-01	1.9008e+00
42	TAF120048	104.3679	105.3051	104.8845	2.2263e-01	1.9008e+00
43	TAF130048	105.8676	106.4897	106.1291	1.5838e-01	1.9009e+00
44	TAF120224	103.0962	103.9266	103.5611	2.1184e-01	1.9008e+00
45	TAF130224	103.9784	104.6033	104.2490	1.5016e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0388	2.5311e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2980	1.3612e-01	1.9010e+00
48	TAI130048	112.8515	114.1891	113.5598	3.4179e-01	1.9013e+00
49	TAI130136	116.4336	117.3561	116.8688	2.0964e-01	1.9015e+00
50	TAI130224	119.0025	120.2344	119.6924	3.1380e-01	1.9017e+00
51	TAI130312	113.9343	114.7587	114.4042	2.1633e-01	1.9013e+00
52	TRR130000	102.1718	103.6201	103.0125	3.6383e-01	1.9007e+00
53	TSI000001	57.7945	58.5476	58.1994	1.9012e-01	1.9001e+00
54	TSI000002	85.7089	87.1778	86.5316	4.0627e-01	1.9002e+00
55	TSO000001	56.2413	57.3235	56.8389	2.2751e-01	1.9001e+00
56	TSO000002	62.1115	63.0780	62.6742	2.1192e-01	1.9000e+00
57	TAF020136	87.7201	88.6705	88.3071	1.9450e-01	1.9002e+00
58	TAF120312	102.8416	103.9836	103.3315	2.8900e-01	1.9007e+00
59	TAF130312	105.4191	106.2468	105.9243	1.9902e-01	1.9009e+00
60	EMPTY	0.7617	0.7715	0.7646	2.6267e-03	0.0000e+00
61	EMPTY	0.7666	0.7813	0.7759	2.4662e-03	0.0000e+00
62	EMPTY	0.7813	0.7861	0.7854	1.7115e-03	0.0000e+00
63	EMPTY	0.7959	0.8057	0.7999	2.1364e-03	0.0000e+00
64	EMPTY	0.5029	0.5078	0.5041	2.1065e-03	0.0000e+00
65	EMPTY	0.5273	0.5273	0.5273	0.0000e+00	0.0000e+00
66	EMPTY	0.5322	0.5469	0.5438	2.9413e-03	0.0000e+00
67	EMPTY	0.5615	0.5664	0.5640	2.4662e-03	0.0000e+00
68	EMPTY	0.5762	0.5811	0.5777	2.3008e-03	0.0000e+00
69	EMPTY	0.5957	0.6006	0.5958	6.9053e-04	0.0000e+00
70	EMPTY	0.6104	0.6152	0.6122	2.3941e-03	0.0000e+00
71	EMPTY	0.6299	0.6396	0.6351	1.5314e-03	0.0000e+00
72	EMPTY	0.6494	0.6543	0.6500	1.6028e-03	0.0000e+00
73	EMPTY	0.6689	0.6738	0.6706	2.3365e-03	0.0000e+00
74	EMPTY	0.6836	0.6885	0.6884	6.9053e-04	0.0000e+00
75	EMPTY	0.7031	0.7080	0.7066	2.2146e-03	0.0000e+00
76	EMPTY	0.7178	0.7227	0.7210	2.3365e-03	0.0000e+00
77	EMPTY	0.7373	0.7422	0.7411	2.0432e-03	0.0000e+00
78	EMPTY	0.7617	0.7666	0.7626	1.8950e-03	0.0000e+00
79	EMPTY	0.7861	0.7861	0.7861	0.0000e+00	0.0000e+00
80	PAN020136	49.3711	50.4392	49.8945	2.6919e-01	8.7890e-01
81	PAN050136	134.3204	135.6937	135.1139	3.2332e-01	1.7136e+00
82	PAN070136	88.1844	89.3288	88.7489	2.3578e-01	8.9785e-01
83	PAN080136	51.9622	52.6488	52.3559	1.6840e-01	8.7979e-01
84	PAN090136	35.8054	36.5684	36.2022	1.9252e-01	8.7469e-01
85	PAN100136	43.3512	44.2668	43.7464	2.3156e-01	8.7685e-01
86	PAN105136	22.2815	22.8919	22.5913	1.5825e-01	8.7183e-01
87	PAN110136	35.1210	35.6550	35.4109	1.3079e-01	8.7449e-01
88	PAN115136	29.1377	29.6718	29.3895	1.2258e-01	8.7310e-01
89	PAN120136	29.5677	30.1780	29.8408	1.5343e-01	8.7319e-01
90	PAN125136	20.4417	21.1283	20.8430	1.5244e-01	8.7156e-01
91	PAN130136	13.3039	13.6854	13.4687	1.0266e-01	8.7065e-01
92	PAN120048	41.6053	42.5971	42.0692	1.8486e-01	8.7633e-01
93	PAN130048	51.8273	52.3613	52.1309	1.3742e-01	8.7971e-01
94	PAN120224	57.9776	58.4354	58.1989	1.2919e-01	8.8208e-01
95	PAN130224	36.8487	37.4591	37.1249	1.2224e-01	8.7494e-01
96	PAN120312	39.6804	40.5196	40.1320	1.6874e-01	8.7577e-01
97	PAN130312	52.2673	52.8777	52.5511	1.5947e-01	8.7986e-01
98	PAB000136	39.9534	40.2281	40.0724	7.5133e-02	5.8859e-01
99	PAB100136	25.0330	25.2161	25.1328	4.2067e-02	5.8339e-01
100	PAB125136	20.0381	20.2212	20.1333	4.3220e-02	5.8218e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.5925	40.0808	39.8000	1.2392e-01	7.5657e-01
102	PRV000001	19.5965	19.7186	19.6014	2.4164e-02	7.5160e-01
103	PSR000001	17.3497	17.5939	17.4669	4.2430e-02	7.5127e-01
104	PFM000001	103.0813	106.1026	104.6780	6.6360e-01	5.6434e-01
105	PAN000136	559.4316	565.8403	562.4802	1.4286e+00	5.1170e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0146	0.0104	1.6028e-03	0.0000e+00
108	EMPTY	-9.8340	0.0928	-4.0201	1.9006e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0092	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	0.0043	1.6028e-03	0.0000e+00
112	VPW000001	101.2432	102.0245	101.6729	1.5282e-01	1.0140e+00
113	VPW000002	118.4608	119.0467	118.8202	9.9512e-02	1.0791e+00
114	VPW000003	146.8412	147.4271	147.1147	1.3087e-01	1.1980e+00
115	VPW000004	104.4734	104.8640	104.6649	1.2780e-01	1.0249e+00
116	VPW000005	139.2616	139.6522	139.4022	1.1189e-01	1.1643e+00
117	VPW000006	147.4797	148.0657	147.7218	1.1545e-01	1.2007e+00
118	IPW000001	563.0259	568.8829	566.2668	1.3440e+00	9.2532e+00
119	IPW000002	1276.9558	1286.7122	1282.6925	2.3125e+00	1.2973e+01
120	IPW000003	1304.5499	1312.3499	1308.7616	1.7776e+00	1.3134e+01
121	IPW000004	384.0989	385.5638	384.9681	3.5962e-01	3.6399e+00
122	IPW000005	253.0734	254.5381	253.8838	3.6389e-01	2.8324e+00
123	IPW000006	260.7798	262.7329	261.4241	3.6165e-01	2.8749e+00
124	EMPTY	-0.0244	-0.0098	-0.0175	3.2851e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0129	3.6593e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0122	3.7239e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.8975e-03	0.0000e+00
128	IHT000001	128.3278	131.4528	129.7926	5.6669e-01	4.3005e+00
129	IHT000002	132.1815	134.7205	133.3573	4.8567e-01	4.3114e+00
130	IHT000003	132.3092	134.8483	133.5005	4.8206e-01	4.3119e+00
131	IHT000004	130.6002	132.9440	131.7837	5.1812e-01	4.3066e+00
132	IHT000005	128.8762	131.2199	130.1691	4.9895e-01	4.3017e+00
133	IHT000006	124.1925	126.5362	125.2940	4.8289e-01	4.2872e+00
134	IHT000007	131.1899	133.3384	132.3345	5.1601e-01	4.3083e+00
135	IHT000008	129.7701	131.9186	130.8365	4.9318e-01	4.3037e+00
136	IHT000009	130.1495	132.2979	131.1768	5.3932e-01	4.3047e+00
137	IHT000010	-40.2982	-37.9545	-39.2006	5.7438e-01	4.1187e+00
138	IHT000011	130.1119	132.4557	131.2134	5.5909e-01	4.3048e+00
139	IHT000012	127.5315	130.0706	128.6956	5.7448e-01	4.2972e+00
140	IHT000013	91.6016	94.3359	92.5625	5.4368e-01	4.2032e+00
141	IHT000014	127.5616	130.2960	128.8624	5.4335e-01	4.2977e+00
142	IHT000015	95.0120	97.5511	96.2229	4.6354e-01	4.2114e+00
143	IHT000016	88.7169	91.0607	89.8693	4.5206e-01	4.1973e+00
144	IHT000017	106.4378	109.7581	108.1527	6.5826e-01	4.2402e+00
145	IHT000018	107.5496	110.2840	108.7840	6.1313e-01	4.2419e+00
146	IHT000019	104.0640	106.0171	105.0483	5.2639e-01	4.2324e+00
147	IHT000020	106.7833	108.9318	107.9240	5.2846e-01	4.2397e+00
148	IHT000021	-2.2273	0.1164	-1.0828	6.2016e-01	4.1000e+00
149	IHT000022	92.8598	94.8130	93.8091	5.3381e-01	4.2059e+00
150	IHT000023	104.9504	106.7083	105.8098	4.9126e-01	4.2343e+00
151	IHT000024	69.7679	71.9163	70.8968	4.8535e-01	4.1608e+00
152	IHT000025	104.9392	107.6735	106.2555	5.1722e-01	4.2354e+00
153	IHT000026	105.3260	107.8651	106.6034	5.2380e-01	4.2363e+00
154	IHT000027	89.9940	92.5330	91.2713	5.6937e-01	4.2004e+00
155	IHT000028	91.9208	94.0693	92.7880	4.9467e-01	4.2037e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4012	107.5496	106.3504	4.9601e-01	4.2357e+00
157	IHT000030	107.5984	110.3328	108.6844	5.5546e-01	4.2416e+00
158	IHT000031	105.8368	108.7665	107.0088	5.5943e-01	4.2373e+00
159	IHT000032	107.3280	110.2576	108.3280	5.7810e-01	4.2407e+00
160	IHT000033	107.3505	110.0849	108.2803	5.8867e-01	4.2406e+00
161	IHT000034	94.1331	96.0862	94.9495	4.7135e-01	4.2085e+00
162	IHT000035	124.5042	126.6527	125.2621	4.7783e-01	4.2871e+00
163	IHT000036	92.6044	94.5575	93.5380	4.1999e-01	4.2053e+00

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Velocity 1 = 0.030100 (ft/sec)
Velocity 2 = 0.001400 (ft/sec)
Pressure Drop = 0.004000 (psi)
Tsat in = 0.001404 (deg F) Tsat out = 0.082703 (deg F)
Phi inner = 0.266006 (kBtu/hr-ft2) Phi outer = 0.211494 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1273	0.1554
1	TRF000002	0.1730	0.2107
2	TFM000001	1.2567	1.4327
3	TIN000001	1.3585	1.5609
4	TRV000001	1.1784	1.3395
5	TSR000001	0.5671	0.5297
6	TAO020136	1.2257	1.9563
7	TAO050136	1.3599	1.2713
8	TAO070136	0.4467	0.4164
9	TAO080136	14.2450	13.5201
10	TAO090136	1.1212	0.9645
11	TAO100136	1.3218	1.1683
12	TAO105136	1.3359	1.1594
13	TAO110136	0.0883	0.1113
14	TAO115136	1.3234	1.1605
15	TAO120136	1.3134	1.0977
16	TAO125136	0.0225	0.0287
17	TAO130136	1.2869	1.1045
18	TAO120048	0.1069	0.1286
19	TAO130048	1.2444	1.0527
20	TAO120224	1.2759	1.0725
21	TAO130224	1.2908	1.1311
22	TAO120312	1.2916	1.1006
23	TAO130312	1.2785	1.0827
24	TRT020000	1.2953	1.2011
25	TRT070000	1.2154	1.0660
26	TRT100000	1.2243	1.0289
27	TRT120000	0.1214	0.0265
28	TRT125000	0.5342	0.6752
29	TRT130000	1.2809	1.0689
30	EMPTY	0.0046	0.0116
31	TAF050136	1.4470	1.5310
32	TAF070136	1.3127	1.3442
33	TAF080136	1.3032	1.1578
34	TAF090136	0.2431	0.3019
35	TAF100136	1.3297	1.3083
36	TAF105136	1.3086	1.2761
37	TAF110136	1.3300	1.2874
38	TAF115136	1.2634	1.2049
39	TAF120136	1.2846	1.1746
40	TAF125136	1.1942	1.1261
41	TAF130136	1.2411	1.1648
42	TAF120048	1.3220	1.2447
43	TAF130048	1.2214	1.1378
44	TAF120224	1.2978	1.2377
45	TAF130224	1.2467	1.1818

#	Name	Abs Diff	%Diff
46	EMPTY	0.0368	0.0967
47	EMPTY	0.0184	0.0468
48	TAI130048	1.1943	1.0407
49	TAI130136	1.1886	1.0068
50	TAI130224	1.1383	0.9421
51	TAI130312	1.1951	1.0338
52	TRR130000	1.7414	1.6624
53	TSI000001	0.1059	0.1816
54	TSI000002	0.2825	0.3275
55	TSO000001	0.0806	0.1420
56	TSO000002	0.0581	0.0926
57	TAF020136	1.4119	1.5737
58	TAF120312	1.3668	1.3055
59	TAF130312	1.2414	1.1584
60	EMPTY	0.0264	3.3376
61	EMPTY	0.0253	3.1578
62	EMPTY	0.0253	3.1208
63	EMPTY	0.0252	3.0542
64	EMPTY	0.0115	2.2304
65	EMPTY	0.0105	1.9524
66	EMPTY	0.0110	1.9827
67	EMPTY	0.0110	1.9130
68	EMPTY	0.0116	1.9684
69	EMPTY	0.0106	1.7480
70	EMPTY	0.0091	1.4647
71	EMPTY	0.0107	1.6569
72	EMPTY	0.0098	1.4853
73	EMPTY	0.0114	1.6716
74	EMPTY	0.0098	1.4036
75	EMPTY	0.0111	1.5466
76	EMPTY	0.0110	1.5027
77	EMPTY	0.0107	1.4232
78	EMPTY	0.0111	1.4347
79	EMPTY	0.0096	1.2065
80	PAN020136	1.1047	2.1661
81	PAN050136	0.1282	0.0950
82	PAN070136	0.1724	0.1946
83	PAN080136	0.1618	0.3100
84	PAN090136	0.0626	0.1732
85	PAN100136	0.0976	0.2236
86	PAN105136	0.0488	0.2156
87	PAN110136	0.1190	0.3372
88	PAN115136	0.0473	0.1612
89	PAN120136	0.1373	0.4580
90	PAN125136	0.0076	0.0365
91	PAN130136	0.1022	0.7646
92	PAN120048	0.1221	0.2911
93	PAN130048	0.0519	0.0997
94	PAN120224	0.0916	0.1576
95	PAN130224	0.0030	0.0081
96	PAN120312	0.0428	0.1065
97	PAN130312	0.1953	0.3730
98	PAB000136	0.0009	0.0022
99	PAB100136	0.0330	0.1315
100	PAB125136	0.0311	0.1547

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0805	0.2027
102	PRV000001	0.1416	0.7277
103	PSR000001	0.0122	0.0699
104	PFM000001	0.2216	0.2112
105	PAN000136	0.1098	0.0195
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0000	0.0000
108	EMPTY	0.8922	18.1626
109	EMPTY	0.0002	2.1277
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	6.5217
112	VPW000001	0.1523	0.1496
113	VPW000002	0.0235	0.0198
114	VPW000003	0.0586	0.0398
115	VPW000004	0.0157	0.0150
116	VPW000005	0.1445	0.1038
117	VPW000006	0.0234	0.0158
118	IPW000001	5.9742	1.0440
119	IPW000002	1.3271	0.1036
120	IPW000003	3.4316	0.2629
121	IPW000004	1.0547	0.2732
122	IPW000005	0.1953	0.0769
123	IPW000006	0.2050	0.0785
124	EMPTY	0.0022	11.1675
125	EMPTY	0.0003	2.2727
126	EMPTY	0.0031	20.2614
127	EMPTY	0.0005	2.9762
128	IHT000001	0.0078	0.0060
129	IHT000002	0.0664	0.0498
130	IHT000003	0.0625	0.0468
131	IHT000004	0.0157	0.0119
132	IHT000005	0.0859	0.0660
133	IHT000006	0.0977	0.0780
134	IHT000007	0.0625	0.0473
135	IHT000008	0.0352	0.0269
136	IHT000009	0.0782	0.0597
137	IHT000010	0.0468	0.1192
138	IHT000011	0.0508	0.0387
139	IHT000012	0.0235	0.0183
140	IHT000013	0.0430	0.0465
141	IHT000014	0.2305	0.1792
142	IHT000015	0.2187	0.2278
143	IHT000016	0.0703	0.0783
144	IHT000017	0.9805	0.9149
145	IHT000018	0.2812	0.2592
146	IHT000019	0.2109	0.2012
147	IHT000020	0.2227	0.2068
148	IHT000021	0.2422	18.2792
149	IHT000022	0.1211	0.1293
150	IHT000023	0.2227	0.2109
151	IHT000024	0.2227	0.3151
152	IHT000025	0.2148	0.2026
153	IHT000026	0.1328	0.1247
154	IHT000027	0.0664	0.0727
155	IHT000028	0.0586	0.0632

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2109	0.1987
157	IHT000030	0.1953	0.1800
158	IHT000031	0.1211	0.1133
159	IHT000032	0.1055	0.0975
160	IHT000033	0.0782	0.0723
161	IHT000034	0.0195	0.0205
162	IHT000035	0.0938	0.0749
163	IHT000036	0.0391	0.0418

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Velocity 1 = 14.0198 (ft/sec) (+/- 1.8662 %)
 Velocity 2 = 13.4135 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 2.5615 (psi)
 Tsat in = 267.5826 (deg F) Tsat out = 263.4609 (deg F)
 Phi inner = 101.4582 (kBtu/hr-ft2) (+/- 1.4108 %)
 Phi outer = 100.8506 (kBtu/hr-ft2) (+/- 1.5428 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	81.2794	81.9158	81.6910	1.8882e-01	1.9001e+00
1	TRF0000002	81.6271	82.0492	81.8508	1.3079e-01	1.9001e+00
2	TFM0000001	85.3332	86.2795	85.9091	1.9600e-01	1.9002e+00
3	TIN0000001	84.8888	85.5215	85.1970	1.4270e-01	1.9002e+00
4	TRV0000001	85.7503	86.6948	86.2794	2.2822e-01	1.9002e+00
5	TSR0000001	107.2676	108.7102	107.9274	3.2433e-01	1.9010e+00
6	TAO020136	64.4199	66.2420	65.3332	4.7144e-01	1.9000e+00
7	TAO050136	119.7350	120.7534	120.2038	2.2472e-01	1.9017e+00
8	TAO070136	118.6596	120.2021	119.4699	3.7198e-01	1.9016e+00
9	TAO080136	90.4217	127.8408	105.7921	7.9469e+00	1.9009e+00
10	TAO090136	134.8788	135.7892	135.3324	1.8427e-01	1.9029e+00
11	TAO100136	131.4642	132.2763	131.8665	1.8230e-01	1.9026e+00
12	TAO105136	133.8287	134.8433	134.2593	2.0652e-01	1.9028e+00
13	TAO110136	81.0723	81.9142	81.5520	1.7412e-01	1.9001e+00
14	TAO115136	133.0883	134.1028	133.6485	2.1416e-01	1.9027e+00
15	TAO120136	140.9692	142.0778	141.5780	2.2943e-01	1.9034e+00
16	TAO125136	87.6993	88.9574	88.3200	2.6863e-01	1.9002e+00
17	TAO130136	137.2492	138.0520	137.6029	1.6415e-01	1.9031e+00
18	TAO120048	85.5636	86.8256	86.1779	3.1676e-01	1.9002e+00
19	TAO130048	139.8599	140.6645	140.2060	1.8226e-01	1.9033e+00
20	TAO120224	140.6402	141.2459	140.9473	1.7041e-01	1.9034e+00
21	TAO130224	133.2020	134.1084	133.6698	1.9357e-01	1.9027e+00
22	TAO120312	138.6998	139.5085	139.1448	2.0305e-01	1.9032e+00
23	TAO130312	138.6502	139.5576	139.0742	1.8451e-01	1.9032e+00
24	TRT020000	119.4228	120.5517	120.0268	2.4589e-01	1.9017e+00
25	TRT070000	131.3670	132.1836	131.8119	2.1585e-01	1.9026e+00
26	TRT100000	138.9258	139.9332	139.5179	2.2536e-01	1.9033e+00
27	TRT120000	457.0637	457.4062	457.2352	1.0516e-01	1.9985e+00
28	TRT125000	81.7765	82.8286	82.3113	2.3077e-01	1.9001e+00
29	TRT130000	141.0045	141.9098	141.4108	1.9287e-01	1.9034e+00
30	EMPTY	39.3761	40.2940	39.7984	2.2411e-01	1.9011e+00
31	TAF050136	97.9416	98.9790	98.3816	2.0419e-01	1.9005e+00
32	TAF070136	103.4117	104.4456	104.0235	2.1791e-01	1.9008e+00
33	TAF080136	129.0157	130.0258	129.5681	2.5520e-01	1.9024e+00
34	TAF090136	81.6439	82.8045	82.3742	3.1726e-01	1.9001e+00
35	TAF100136	111.4941	112.3203	111.9239	1.8928e-01	1.9012e+00
36	TAF105136	112.9243	114.0498	113.4651	2.6957e-01	1.9013e+00
37	TAF110136	114.6860	115.6093	115.0676	1.9465e-01	1.9014e+00
38	TAF115136	117.0367	117.9590	117.5161	2.3459e-01	1.9015e+00
39	TAF120136	125.7186	126.4304	126.0687	1.5280e-01	1.9021e+00
40	TAF125136	119.4152	120.5356	120.0269	2.6999e-01	1.9017e+00
41	TAF130136	120.6357	121.2504	120.9963	1.6439e-01	1.9018e+00
42	TAF120048	119.3932	120.2170	119.9080	1.8941e-01	1.9017e+00
43	TAF130048	122.1958	122.8101	122.5440	1.6538e-01	1.9019e+00
44	TAF120224	117.0999	118.1250	117.6452	2.2740e-01	1.9015e+00
45	TAF130224	119.2000	119.7147	119.4059	1.3938e-01	1.9016e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1032	2.2377e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3807	9.8292e-02	1.9010e+00
48	TAI130048	134.9772	136.6962	135.8592	3.2031e-01	1.9029e+00
49	TAI130136	139.4512	140.2575	139.8142	1.8093e-01	1.9033e+00
50	TAI130224	141.7941	143.0046	142.4519	2.8027e-01	1.9035e+00
51	TAI130312	135.4697	136.2800	135.8829	1.9719e-01	1.9029e+00
52	TRR130000	109.2839	110.6218	109.9922	3.2568e-01	1.9011e+00
53	TSI000001	58.1157	58.9766	58.5422	1.8316e-01	1.9001e+00
54	TSI000002	84.0281	85.7089	84.9191	3.7967e-01	1.9001e+00
55	TSO000001	56.3497	57.4318	56.8391	2.6070e-01	1.9001e+00
56	TSO000002	63.7194	64.5770	64.1996	2.0233e-01	1.9000e+00
57	TAF020136	89.3045	90.2537	89.7221	2.3228e-01	1.9003e+00
58	TAF120312	117.1844	118.5186	117.8290	2.9321e-01	1.9015e+00
59	TAF130312	122.3521	123.1695	122.7323	1.8811e-01	1.9019e+00
60	EMPTY	1.1621	1.1670	1.1627	1.6028e-03	0.0000e+00
61	EMPTY	1.1670	1.1719	1.1714	1.4797e-03	0.0000e+00
62	EMPTY	1.1719	1.1816	1.1769	1.2041e-03	0.0000e+00
63	EMPTY	1.1816	1.1914	1.1866	1.2041e-03	0.0000e+00
64	EMPTY	0.6689	0.6738	0.6711	2.4484e-03	0.0000e+00
65	EMPTY	0.6885	0.6982	0.6933	1.2041e-03	0.0000e+00
66	EMPTY	0.7080	0.7129	0.7081	6.9053e-04	0.0000e+00
67	EMPTY	0.7275	0.7324	0.7276	6.9053e-04	0.0000e+00
68	EMPTY	0.7373	0.7422	0.7411	2.0432e-03	0.0000e+00
69	EMPTY	0.7568	0.7617	0.7571	1.1714e-03	0.0000e+00
70	EMPTY	0.7715	0.7764	0.7725	1.9730e-03	0.0000e+00
71	EMPTY	0.7910	0.7959	0.7958	6.9053e-04	0.0000e+00
72	EMPTY	0.8057	0.8105	0.8095	2.0432e-03	0.0000e+00
73	EMPTY	0.8203	0.8350	0.8285	2.6908e-03	0.0000e+00
74	EMPTY	0.8398	0.8447	0.8443	1.3381e-03	0.0000e+00
75	EMPTY	0.8594	0.8643	0.8597	1.1714e-03	0.0000e+00
76	EMPTY	0.8740	0.8740	0.8740	0.0000e+00	0.0000e+00
77	EMPTY	0.8936	0.8984	0.8937	6.9053e-04	0.0000e+00
78	EMPTY	0.9131	0.9180	0.9157	2.4583e-03	0.0000e+00
79	EMPTY	0.9375	0.9375	0.9375	0.0000e+00	0.0000e+00
80	PAN020136	2.8318	3.4421	3.1095	1.1510e-01	8.7003e-01
81	PAN050136	17.1329	18.0485	17.6243	2.4134e-01	1.6806e+00
82	PAN070136	10.0594	10.7460	10.4012	1.6761e-01	8.7039e-01
83	PAN080136	7.1776	7.8643	7.5271	1.4549e-01	8.7020e-01
84	PAN090136	2.6939	3.3042	3.0280	1.2606e-01	8.7003e-01
85	PAN100136	5.3569	5.8146	5.5369	1.1302e-01	8.7011e-01
86	PAN105136	2.4451	2.8266	2.6175	9.9666e-02	8.7002e-01
87	PAN110136	6.4345	6.8159	6.5779	9.3301e-02	8.7016e-01
88	PAN115136	4.4185	5.0288	4.6901	1.3184e-01	8.7008e-01
89	PAN120136	5.3062	5.7640	5.5625	9.4716e-02	8.7011e-01
90	PAN125136	1.8260	2.2074	2.0121	8.1794e-02	8.7001e-01
91	PAN130136	-0.1238	0.1813	0.1005	7.9212e-02	8.7000e-01
92	PAN120048	4.7553	5.1368	4.9552	1.1315e-01	8.7009e-01
93	PAN130048	7.0427	7.4242	7.2731	8.3704e-02	8.7019e-01
94	PAN120224	9.6073	10.0650	9.8331	9.3707e-02	8.7035e-01
95	PAN130224	3.0505	3.5083	3.3145	1.0591e-01	8.7004e-01
96	PAN120312	4.2800	4.7377	4.4600	1.0196e-01	8.7007e-01
97	PAN130312	7.4065	7.8642	7.6262	1.0860e-01	8.7021e-01
98	PAB000136	39.9534	40.2739	40.1438	6.8186e-02	5.8862e-01
99	PAB100136	38.1250	38.3081	38.2156	4.5767e-02	5.8782e-01
100	PAB125136	37.3415	37.5246	37.4532	4.9940e-02	5.8751e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7146	40.2028	39.9709	9.6308e-02	7.5663e-01
102	PRV000001	19.8406	20.0848	19.9066	7.0664e-02	7.5165e-01
103	PSR000001	36.6368	37.0031	36.8175	8.9737e-02	7.5563e-01
104	PFM000001	29.8391	30.6631	30.1357	1.9183e-01	5.0564e-01
105	PAN000136	67.7934	73.2866	70.9154	1.0532e+00	4.9232e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0071	2.4583e-03	0.0000e+00
108	EMPTY	-10.0000	-0.0488	-4.4345	1.6579e+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	101.4385	102.0245	101.7080	1.1765e-01	1.0142e+00
113	VPW000002	118.6561	119.0467	118.9217	1.1679e-01	1.0795e+00
114	VPW000003	147.0365	147.6225	147.2632	1.0705e-01	1.1987e+00
115	VPW000004	104.4734	104.8640	104.6805	1.2731e-01	1.0250e+00
116	VPW000005	139.2616	139.6522	139.4218	1.4057e-01	1.1644e+00
117	VPW000006	147.6750	148.2610	147.8976	1.4770e-01	1.2015e+00
118	IPW000001	537.6454	543.5024	540.8473	1.7971e+00	9.1578e+00
119	IPW000002	1312.0786	1327.6888	1319.3374	4.2466e+00	1.3200e+01
120	IPW000003	1331.8499	1339.6499	1335.1262	2.2090e+00	1.3299e+01
121	IPW000004	376.7747	380.6809	378.3567	1.4246e+00	3.5964e+00
122	IPW000005	253.5616	255.0263	254.2549	3.5687e-01	2.8345e+00
123	IPW000006	261.7563	265.1743	263.6116	8.8783e-01	2.8874e+00
124	EMPTY	-0.0293	-0.0098	-0.0200	4.4391e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0130	3.2133e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0150	4.3940e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0150	3.3944e-03	0.0000e+00
128	IHT000001	128.3278	131.2575	129.5074	6.3006e-01	4.2997e+00
129	IHT000002	131.7908	134.5252	133.0917	5.8475e-01	4.3106e+00
130	IHT000003	131.9186	134.8483	133.2623	6.0314e-01	4.3111e+00
131	IHT000004	130.0143	133.3346	131.5220	6.5914e-01	4.3058e+00
132	IHT000005	128.4856	131.2199	129.8996	6.2460e-01	4.3009e+00
133	IHT000006	123.6065	126.5362	125.0049	6.2310e-01	4.2863e+00
134	IHT000007	130.7993	133.5337	132.0102	5.6909e-01	4.3073e+00
135	IHT000008	129.7701	131.7233	130.6021	5.1722e-01	4.3030e+00
136	IHT000009	129.7589	132.1026	130.9893	5.6669e-01	4.3042e+00
137	IHT000010	-40.4935	-38.1498	-39.4076	4.8993e-01	4.1189e+00
138	IHT000011	129.7213	132.4557	131.0728	5.5079e-01	4.3044e+00
139	IHT000012	127.5315	129.6800	128.5628	5.0539e-01	4.2968e+00
140	IHT000013	91.4063	93.5547	92.4297	5.1533e-01	4.2029e+00
141	IHT000014	127.5616	129.9054	128.6475	5.3110e-01	4.2971e+00
142	IHT000015	94.8167	97.1604	96.0003	5.0287e-01	4.2109e+00
143	IHT000016	88.5216	90.8654	89.6779	4.9101e-01	4.1969e+00
144	IHT000017	105.2659	108.9769	107.2894	8.8212e-01	4.2381e+00
145	IHT000018	107.3543	109.8933	108.6278	5.8957e-01	4.2415e+00
146	IHT000019	103.8687	106.9937	104.8648	5.7757e-01	4.2320e+00
147	IHT000020	106.5880	109.7130	107.7560	6.3441e-01	4.2392e+00
148	IHT000021	-2.4226	0.7024	-1.3328	7.1473e-01	4.1000e+00
149	IHT000022	92.6645	95.0083	93.5513	5.8688e-01	4.2054e+00
150	IHT000023	104.5598	106.7083	105.5441	5.4670e-01	4.2337e+00
151	IHT000024	69.7679	71.9163	70.6858	5.0724e-01	4.1605e+00
152	IHT000025	104.9392	107.0876	105.9509	5.2747e-01	4.2347e+00
153	IHT000026	105.3260	107.6698	106.3612	5.2830e-01	4.2357e+00
154	IHT000027	90.1893	92.5330	91.0682	5.0571e-01	4.1999e+00
155	IHT000028	91.5302	94.2646	92.6669	6.0062e-01	4.2034e+00

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sum1

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0105	107.9402	106.1981	5.9561e-01	4.2353e+00
157	IHT000030	107.4031	109.9422	108.5438	5.5011e-01	4.2412e+00
158	IHT000031	105.6415	108.1806	106.9111	5.5699e-01	4.2371e+00
159	IHT000032	107.1326	109.4764	108.1874	5.4818e-01	4.2403e+00
160	IHT000033	106.9599	109.4990	108.1201	5.5018e-01	4.2402e+00
161	IHT000034	93.9378	95.6956	94.8245	4.5713e-01	4.2082e+00
162	IHT000035	124.1136	126.0667	125.1058	4.5990e-01	4.2866e+00
163	IHT000036	92.4091	94.3622	93.4794	4.6057e-01	4.2052e+00

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sum2

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Velocity 1 = 14.0081 (ft/sec) (+/- 1.8668 %)
Velocity 2 = 13.4136 (ft/sec) (+/- 1.7033 %)
Pressure drop = 2.5509 (psi)
Tsat in = 267.4928 (deg F) Tsat out = 263.3885 (deg F)
Phi inner = 101.3687 (kBtu/hr-ft2) (+/- 1.4111 %)
Phi outer = 100.4768 (kBtu/hr-ft2) (+/- 1.5443 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.2794	81.9158	81.6061	1.3695e-01	1.9001e+00
1	TRF000002	81.4160	82.0492	81.7706	1.2387e-01	1.9001e+00
2	TFM000001	85.6479	86.3827	86.0452	1.7146e-01	1.9002e+00
3	TIN000001	84.8892	85.9434	85.2791	1.6808e-01	1.9002e+00
4	TRV000001	85.5409	86.7984	86.2013	2.3981e-01	1.9002e+00
5	TSR000001	107.6791	108.8125	108.2743	3.0513e-01	1.9010e+00
6	TAO020136	63.6687	65.8130	64.7908	4.9255e-01	1.9000e+00
7	TAO050136	120.0393	120.7539	120.4084	1.6845e-01	1.9017e+00
8	TAO070136	119.1745	120.2025	119.7682	2.3433e-01	1.9017e+00
9	TAO080136	93.5357	101.0902	95.6797	1.0170e+00	1.9004e+00
10	TAO090136	135.1813	136.0909	135.5882	1.8080e-01	1.9029e+00
11	TAO100136	131.6672	132.3773	131.9936	1.6552e-01	1.9026e+00
12	TAO105136	133.8292	134.8429	134.3138	2.2562e-01	1.9028e+00
13	TAO110136	81.5945	82.3295	81.9963	1.5848e-01	1.9001e+00
14	TAO115136	133.2915	134.2040	133.8610	2.0767e-01	1.9027e+00
15	TAO120136	141.2708	141.9766	141.6884	1.7974e-01	1.9035e+00
16	TAO125136	87.5949	88.9562	88.2547	2.8262e-01	1.9002e+00
17	TAO130136	137.3466	138.0484	137.7586	1.4373e-01	1.9031e+00
18	TAO120048	86.5085	87.7701	87.1289	3.4882e-01	1.9002e+00
19	TAO130048	139.8584	140.6645	140.3881	1.5332e-01	1.9033e+00
20	TAO120224	140.8420	141.4463	141.1261	1.4346e-01	1.9034e+00
21	TAO130224	133.4025	134.3088	133.8392	1.9426e-01	1.9027e+00
22	TAO120312	138.8008	139.8112	139.2839	2.1710e-01	1.9032e+00
23	TAO130312	138.8518	139.5576	139.2607	1.7081e-01	1.9032e+00
24	TRT020000	119.6286	120.6545	120.1313	2.4016e-01	1.9017e+00
25	TRT070000	131.5718	132.4897	131.9654	2.1608e-01	1.9026e+00
26	TRT100000	139.2269	140.2341	139.7325	2.1548e-01	1.9033e+00
27	TRT120000	456.9785	457.3210	457.1685	8.3385e-02	1.9984e+00
28	TRT125000	82.1962	83.1415	82.6939	2.1093e-01	1.9001e+00
29	TRT130000	141.3053	142.0093	141.6171	1.3827e-01	1.9035e+00
30	EMPTY	39.3761	40.0646	39.7709	2.0757e-01	1.9011e+00
31	TAF050136	98.2516	98.9795	98.5531	2.0147e-01	1.9005e+00
32	TAF070136	103.7197	104.5479	104.1938	1.7224e-01	1.9008e+00
33	TAF080136	129.2173	130.3267	129.7224	2.6934e-01	1.9024e+00
34	TAF090136	81.9598	83.1196	82.5612	2.5213e-01	1.9001e+00
35	TAF100136	111.7012	112.4235	112.0744	1.8276e-01	1.9012e+00
36	TAF105136	112.8208	114.0498	113.6213	2.3882e-01	1.9013e+00
37	TAF110136	114.6846	115.5060	115.1510	1.5955e-01	1.9014e+00
38	TAF115136	117.3432	118.1623	117.6609	2.1126e-01	1.9015e+00
39	TAF120136	125.8188	126.5306	126.2929	1.4168e-01	1.9021e+00
40	TAF125136	119.6188	120.7385	120.2269	2.8341e-01	1.9017e+00
41	TAF130136	120.8402	121.4531	121.1774	1.4349e-01	1.9018e+00
42	TAF120048	119.5992	120.6281	120.0669	2.5389e-01	1.9017e+00
43	TAF130048	122.2977	123.1154	122.7130	1.3133e-01	1.9019e+00
44	TAF120224	117.5090	118.1250	117.8476	1.6337e-01	1.9015e+00
45	TAF130224	119.3035	119.9204	119.5810	1.4720e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1492	1.9492e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.4128	1.2584e-01	1.9010e+00
48	TAI130048	135.4820	136.7965	136.1236	3.4016e-01	1.9029e+00
49	TAI130136	139.5509	140.4572	140.0730	1.7222e-01	1.9033e+00
50	TAI130224	142.1974	143.3066	142.7240	2.9744e-01	1.9036e+00
51	TAI130312	135.5704	136.4819	136.1115	2.1413e-01	1.9029e+00
52	TRR130000	109.7967	111.1341	110.5073	3.4144e-01	1.9011e+00
53	TSI000001	59.0081	58.8691	58.5310	1.9896e-01	1.9001e+00
54	TSI000002	84.5527	85.8136	85.1309	3.2203e-01	1.9002e+00
55	TSO000001	56.6746	57.4324	57.0364	1.6296e-01	1.9001e+00
56	TSO000002	63.8260	64.7906	64.3686	2.3152e-01	1.9000e+00
57	TAF020136	89.4107	90.3593	89.8301	2.0701e-01	1.9003e+00
58	TAF120312	117.2870	118.4156	117.8227	2.8062e-01	1.9015e+00
59	TAF130312	122.2494	123.2711	122.8603	2.1274e-01	1.9019e+00
60	EMPTY	1.1621	1.1719	1.1679	2.5515e-03	0.0000e+00
61	EMPTY	1.1719	1.1914	1.1752	3.3366e-03	0.0000e+00
62	EMPTY	1.1768	1.1816	1.1806	2.0432e-03	0.0000e+00
63	EMPTY	1.1865	1.1963	1.1915	2.0903e-03	0.0000e+00
64	EMPTY	0.6689	0.6738	0.6737	6.9053e-04	0.0000e+00
65	EMPTY	0.6934	0.6982	0.6954	2.4344e-03	0.0000e+00
66	EMPTY	0.7080	0.7129	0.7104	2.4662e-03	0.0000e+00
67	EMPTY	0.7227	0.7324	0.7284	2.1364e-03	0.0000e+00
68	EMPTY	0.7422	0.7422	0.7422	0.0000e+00	0.0000e+00
69	EMPTY	0.7568	0.7617	0.7605	2.1065e-03	0.0000e+00
70	EMPTY	0.7715	0.7813	0.7751	2.3778e-03	0.0000e+00
71	EMPTY	0.7959	0.8008	0.7961	9.6655e-04	0.0000e+00
72	EMPTY	0.8105	0.8105	0.8105	0.0000e+00	0.0000e+00
73	EMPTY	0.8252	0.8301	0.8300	6.9053e-04	0.0000e+00
74	EMPTY	0.8447	0.8496	0.8448	6.9053e-04	0.0000e+00
75	EMPTY	0.8594	0.8643	0.8626	2.3365e-03	0.0000e+00
76	EMPTY	0.8740	0.8789	0.8749	1.8950e-03	0.0000e+00
77	EMPTY	0.8936	0.8984	0.8938	1.1714e-03	0.0000e+00
78	EMPTY	0.9131	0.9180	0.9174	1.6028e-03	0.0000e+00
79	EMPTY	0.9375	0.9424	0.9377	9.6655e-04	0.0000e+00
80	PAN020136	2.5266	3.2133	2.9249	1.3463e-01	8.7003e-01
81	PAN050136	17.2855	18.2011	17.8379	2.1555e-01	1.6806e+00
82	PAN070136	9.9831	10.5934	10.3249	1.6972e-01	8.7038e-01
83	PAN080136	7.1776	7.7117	7.4538	1.4368e-01	8.7020e-01
84	PAN090136	2.6939	3.4568	3.1470	1.5522e-01	8.7004e-01
85	PAN100136	5.0517	5.6620	5.3401	1.2550e-01	8.7010e-01
86	PAN105136	2.3688	2.8266	2.6252	9.3453e-02	8.7002e-01
87	PAN110136	6.2056	6.5871	6.4192	9.1189e-02	8.7015e-01
88	PAN115136	4.4185	5.1051	4.8381	1.5278e-01	8.7008e-01
89	PAN120136	5.5351	6.0691	5.7075	1.2409e-01	8.7012e-01
90	PAN125136	1.8260	2.2074	2.0289	9.1980e-02	8.7001e-01
91	PAN130136	-0.1238	0.2576	0.0761	8.7043e-02	8.7000e-01
92	PAN120048	4.7553	5.2894	5.0422	1.1694e-01	8.7009e-01
93	PAN130048	7.1953	7.5768	7.3677	8.2733e-02	8.7019e-01
94	PAN120224	9.7599	10.2176	9.9613	1.1613e-01	8.7036e-01
95	PAN130224	3.0505	3.5846	3.3801	1.0947e-01	8.7004e-01
96	PAN120312	4.3563	4.8140	4.5012	9.8996e-02	8.7007e-01
97	PAN130312	7.3302	7.7117	7.5804	1.0572e-01	8.7021e-01
98	PAB000136	39.9534	40.1823	40.0834	5.4211e-02	5.8859e-01
99	PAB100136	38.0792	38.2623	38.1680	4.5692e-02	5.8780e-01
100	PAB125136	37.3415	37.5246	37.4075	4.8197e-02	5.8749e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.7146	40.2028	39.9904	9.4908e-02	7.5663e-01
102	PRV0000001	19.4744	19.7186	19.6551	6.6358e-02	7.5161e-01
103	PSR0000001	36.5148	37.0031	36.7882	9.4104e-02	7.5562e-01
104	PFM0000001	29.6560	30.3884	30.0845	1.4848e-01	5.0563e-01
105	PAN000136	67.7934	72.3710	70.6224	1.0450e+00	4.9232e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0057	1.8082e-03	0.0000e+00
108	EMPTY	-10.0000	-0.1660	-4.5923	2.7739e+00	0.0000e+00
109	EMPTY	-0.0049	0.0098	0.0048	1.5566e-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	101.6339	102.0245	101.7627	1.0145e-01	1.0143e+00
113	VPW0000002	118.6561	119.2421	118.8163	1.5630e-01	1.0790e+00
114	VPW0000003	147.0365	147.4271	147.2710	1.0440e-01	1.1987e+00
115	VPW0000004	104.4734	105.0593	104.7156	1.1545e-01	1.0251e+00
116	VPW0000005	139.0663	139.6522	139.3749	1.3141e-01	1.1642e+00
117	VPW0000006	147.6750	148.2610	147.9171	1.4530e-01	1.2016e+00
118	IPW0000001	537.6454	543.5024	540.6519	1.7288e+00	9.1571e+00
119	IPW0000002	1310.1273	1317.9325	1312.1960	2.1012e+00	1.3156e+01
120	IPW0000003	1331.8499	1337.6998	1334.5022	1.3510e+00	1.3295e+01
121	IPW0000004	376.7747	378.2395	377.4192	3.3366e-01	3.5903e+00
122	IPW0000005	254.0498	255.0263	254.3330	2.6264e-01	2.8350e+00
123	IPW0000006	261.7563	263.7095	262.7230	4.7811e-01	2.8823e+00
124	EMPTY	-0.0293	-0.0146	-0.0210	3.8523e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0128	3.2554e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0166	3.6911e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	3.2057e-03	0.0000e+00
128	IHT0000001	128.3278	130.8669	129.5114	5.5861e-01	4.2997e+00
129	IHT0000002	131.7908	134.3299	133.1268	5.0588e-01	4.3107e+00
130	IHT0000003	131.9186	134.6530	133.2974	5.6828e-01	4.3112e+00
131	IHT0000004	130.2096	133.1393	131.5572	5.8294e-01	4.3059e+00
132	IHT0000005	128.6809	131.4153	129.9503	5.5137e-01	4.3010e+00
133	IHT0000006	123.8018	126.3409	125.0401	5.3322e-01	4.2864e+00
134	IHT0000007	130.7993	133.1431	132.0766	5.1932e-01	4.3075e+00
135	IHT0000008	129.5748	131.5279	130.5591	4.8802e-01	4.3029e+00
136	IHT0000009	129.7589	132.1026	130.9072	5.5333e-01	4.3039e+00
137	IHT0000010	-40.4935	-37.9545	-39.3295	5.8787e-01	4.1188e+00
138	IHT0000011	129.7213	132.2603	131.0884	5.6359e-01	4.3045e+00
139	IHT0000012	127.3362	130.0706	128.6527	5.5497e-01	4.2971e+00
140	IHT0000013	91.0156	93.7500	92.5000	4.9599e-01	4.2030e+00
141	IHT0000014	127.1710	129.9054	128.6553	5.3525e-01	4.2971e+00
142	IHT0000015	94.8167	97.3558	96.1761	5.1593e-01	4.2113e+00
143	IHT0000016	88.3263	91.0607	89.8771	5.1510e-01	4.1974e+00
144	IHT0000017	105.6566	109.1722	107.4964	8.3528e-01	4.2386e+00
145	IHT0000018	107.3543	110.2840	108.6434	6.0746e-01	4.2415e+00
146	IHT0000019	103.6734	105.8218	104.8843	5.1599e-01	4.2320e+00
147	IHT0000020	106.3927	108.7365	107.7833	5.0167e-01	4.2393e+00
148	IHT0000021	-2.6179	0.5071	-1.2586	6.1379e-01	4.1000e+00
149	IHT0000022	92.6645	95.2036	93.6919	4.6657e-01	4.2057e+00
150	IHT0000023	104.5598	107.0989	105.6262	4.8361e-01	4.2339e+00
151	IHT0000024	69.7679	71.9163	70.7523	4.4110e-01	4.1606e+00
152	IHT0000025	104.9392	107.2829	105.9860	4.9088e-01	4.2348e+00
153	IHT0000026	105.3260	108.0604	106.4393	5.4712e-01	4.2359e+00
154	IHT0000027	89.9940	92.7284	91.2166	5.5916e-01	4.2002e+00
155	IHT0000028	91.9208	93.6786	92.7529	5.5216e-01	4.2036e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2058	107.5496	106.2371	5.4539e-01	4.2354e+00
157	IHT000030	107.5984	109.9422	108.6688	5.5558e-01	4.2416e+00
158	IHT000031	105.8368	108.1806	106.9736	5.4489e-01	4.2373e+00
159	IHT000032	107.1326	109.4764	108.2616	5.5704e-01	4.2405e+00
160	IHT000033	106.9599	109.6943	108.2178	5.7203e-01	4.2404e+00
161	IHT000034	93.9378	96.0862	94.9456	4.9341e-01	4.2085e+00
162	IHT000035	124.3089	126.0667	125.1605	5.2014e-01	4.2868e+00
163	IHT000036	92.7997	94.3622	93.5693	4.6086e-01	4.2054e+00

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Velocity 1 = 0.011701 (ft/sec)

Velocity 2 = 0.000100 (ft/sec)

Pressure Drop = 0.010600 (psi)

Tsat in = 0.089813 (deg F) Tsat out = 0.072418 (deg F)

Phi inner = 0.089500 (kBtu/hr-ft2) Phi outer = 0.373802 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF0000001	0.0849	0.1039
1	TRF0000002	0.0802	0.0980
2	TFM0000001	0.1361	0.1584
3	TIN0000001	0.0821	0.0964
4	TRV0000001	0.0781	0.0905
5	TSR0000001	0.3469	0.3214
6	TAO020136	0.5424	0.8302
7	TAO050136	0.2046	0.1702
8	TAO070136	0.2983	0.2497
9	TAO080136	10.1124	9.5587
10	TAO090136	0.2558	0.1890
11	TAO100136	0.1271	0.0964
12	TAO105136	0.0545	0.0406
13	TAO110136	0.4443	0.5448
14	TAO115136	0.2125	0.1590
15	TAO120136	0.1104	0.0780
16	TAO125136	0.0653	0.0739
17	TAO130136	0.1557	0.1132
18	TAO120048	0.9510	1.1035
19	TAO130048	0.1821	0.1299
20	TAO120224	0.1788	0.1269
21	TAO130224	0.1694	0.1267
22	TAO120312	0.1391	0.1000
23	TAO130312	0.1865	0.1341
24	TRT020000	0.1045	0.0871
25	TRT070000	0.1535	0.1164
26	TRT100000	0.2146	0.1538
27	TRT120000	0.0667	0.0146
28	TRT125000	0.3826	0.4648
29	TRT130000	0.2063	0.1459
30	EMPTY	0.0275	0.0691
31	TAF050136	0.1715	0.1743
32	TAF070136	0.1703	0.1637
33	TAF080136	0.1543	0.1191
34	TAF090136	0.1870	0.2270
35	TAF100136	0.1505	0.1345
36	TAF105136	0.1562	0.1377
37	TAF110136	0.0834	0.0725
38	TAF115136	0.1448	0.1232
39	TAF120136	0.2242	0.1778
40	TAF125136	0.2000	0.1666
41	TAF130136	0.1811	0.1497
42	TAF120048	0.1589	0.1325
43	TAF130048	0.1690	0.1379
44	TAF120224	0.2024	0.1720
45	TAF130224	0.1751	0.1466

#	Name	Abs Diff	%Diff
46	EMPTY	0.0460	0.1207
47	EMPTY	0.0321	0.0815
48	TAI130048	0.2644	0.1946
49	TAI130136	0.2588	0.1851
50	TAI130224	0.2721	0.1910
51	TAI130312	0.2286	0.1682
52	TRR130000	0.5151	0.4683
53	TSI000001	0.0112	0.0191
54	TSI000002	0.2118	0.2494
55	TSO000001	0.1973	0.3471
56	TSO000002	0.1690	0.2632
57	TAF020136	0.1080	0.1204
58	TAF120312	0.0063	0.0053
59	TAF130312	0.1280	0.1043
60	EMPTY	0.0052	0.4472
61	EMPTY	0.0038	0.3244
62	EMPTY	0.0037	0.3144
63	EMPTY	0.0049	0.4129
64	EMPTY	0.0026	0.3874
65	EMPTY	0.0021	0.3029
66	EMPTY	0.0023	0.3248
67	EMPTY	0.0008	0.1100
68	EMPTY	0.0011	0.1484
69	EMPTY	0.0034	0.4491
70	EMPTY	0.0026	0.3366
71	EMPTY	0.0003	0.0377
72	EMPTY	0.0010	0.1235
73	EMPTY	0.0015	0.1811
74	EMPTY	0.0005	0.0592
75	EMPTY	0.0029	0.3373
76	EMPTY	0.0009	0.1030
77	EMPTY	0.0001	0.0112
78	EMPTY	0.0017	0.1856
79	EMPTY	0.0002	0.0213
80	PAN020136	0.1846	5.9366
81	PAN050136	0.2136	1.2120
82	PAN070136	0.0763	0.7336
83	PAN080136	0.0733	0.9738
84	PAN090136	0.1190	3.9300
85	PAN100136	0.1968	3.5543
86	PAN105136	0.0077	0.2942
87	PAN110136	0.1587	2.4126
88	PAN115136	0.1480	3.1556
89	PAN120136	0.1450	2.6067
90	PAN125136	0.0168	0.8349
91	PAN130136	0.0244	24.2786
92	PAN120048	0.0870	1.7557
93	PAN130048	0.0946	1.3007
94	PAN120224	0.1282	1.3038
95	PAN130224	0.0656	1.9792
96	PAN120312	0.0412	0.9238
97	PAN130312	0.0458	0.6006
98	PAB000136	0.0604	0.1505
99	PAB100136	0.0476	0.1246
100	PAB125136	0.0457	0.1220

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0195	0.0488
102	PRV000001	0.2515	1.2634
103	PSR000001	0.0293	0.0796
104	PFM000001	0.0512	0.1699
105	PAN000136	0.2930	0.4132
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0014	19.7183
108	EMPTY	0.1578	3.5585
109	EMPTY	0.0001	2.0408
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0547	0.0538
113	VPW000002	0.1054	0.0886
114	VPW000003	0.0078	0.0053
115	VPW000004	0.0351	0.0335
116	VPW000005	0.0469	0.0336
117	VPW000006	0.0195	0.0132
118	IPW000001	0.1954	0.0361
119	IPW000002	7.1414	0.5413
120	IPW000003	0.6240	0.0467
121	IPW000004	0.9375	0.2478
122	IPW000005	0.0781	0.0307
123	IPW000006	0.8886	0.3371
124	EMPTY	0.0010	5.0000
125	EMPTY	0.0002	1.5385
126	EMPTY	0.0016	10.6667
127	EMPTY	0.0008	5.3333
128	IHT000001	0.0040	0.0031
129	IHT000002	0.0351	0.0264
130	IHT000003	0.0351	0.0263
131	IHT000004	0.0352	0.0268
132	IHT000005	0.0507	0.0390
133	IHT000006	0.0352	0.0282
134	IHT000007	0.0664	0.0503
135	IHT000008	0.0430	0.0329
136	IHT000009	0.0821	0.0627
137	IHT000010	0.0781	0.1982
138	IHT000011	0.0156	0.0119
139	IHT000012	0.0899	0.0699
140	IHT000013	0.0703	0.0761
141	IHT000014	0.0078	0.0061
142	IHT000015	0.1758	0.1831
143	IHT000016	0.1992	0.2221
144	IHT000017	0.2070	0.1929
145	IHT000018	0.0156	0.0144
146	IHT000019	0.0195	0.0186
147	IHT000020	0.0273	0.0253
148	IHT000021	0.0742	5.5672
149	IHT000022	0.1406	0.1503
150	IHT000023	0.0821	0.0778
151	IHT000024	0.0665	0.0941
152	IHT000025	0.0351	0.0331
153	IHT000026	0.0781	0.0734
154	IHT000027	0.1484	0.1630
155	IHT000028	0.0860	0.0928

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0390	0.0367
157	IHT000030	0.1250	0.1152
158	IHT000031	0.0625	0.0585
159	IHT000032	0.0742	0.0686
160	IHT000033	0.0977	0.0904
161	IHT000034	0.1211	0.1277
162	IHT000035	0.0547	0.0437
163	IHT000036	0.0899	0.0962

Velocity 1 = 6.0268 (ft/sec) (+/- 4.8654 %)
 Velocity 2 = 6.0244 (ft/sec) (+/- 2.3462 %)
 Pressure drop = -3.7553 (psi)
 Tsat in = 267.8162 (deg F) Tsat out = 272.7747 (deg F)
 Phi inner = 99.6316 (kBtu/hr-ft2) (+/- 1.4161 %)
 Phi outer = 100.3841 (kBtu/hr-ft2) (+/- 1.5430 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.2794	81.9158	81.4661	1.8506e-01	1.9001e+00
1	TRF000002	81.4160	81.8382	81.6567	1.2799e-01	1.9001e+00
2	TFM000001	85.3327	85.9645	85.6583	1.7534e-01	1.9002e+00
3	TIN000001	84.3616	85.3112	84.9037	1.7316e-01	1.9001e+00
4	TRV000001	85.3300	86.2742	85.7859	2.1991e-01	1.9002e+00
5	TSR000001	111.7848	113.9379	112.7720	6.2075e-01	1.9012e+00
6	TAO020136	66.2411	68.0605	67.1169	4.4817e-01	1.9000e+00
7	TAO050136	156.9286	157.9207	157.3001	2.1646e-01	1.9051e+00
8	TAO070136	159.6929	161.2882	160.5408	3.4201e-01	1.9055e+00
9	TAO080136	182.3811	183.1617	182.7957	1.6801e-01	1.9086e+00
10	TAO090136	185.6848	186.5616	186.0763	1.9927e-01	1.9091e+00
11	TAO100136	185.1526	186.4192	185.8443	2.5065e-01	1.9090e+00
12	TAO105136	190.3209	191.2947	190.8641	2.4252e-01	1.9098e+00
13	TAO110136	80.5483	81.2845	80.9410	1.7621e-01	1.9001e+00
14	TAO115136	191.5920	192.4673	192.0876	2.4854e-01	1.9100e+00
15	TAO120136	203.7097	204.8303	204.3999	2.1438e-01	1.9121e+00
16	TAO125136	120.9663	123.0065	121.7605	3.7509e-01	1.9018e+00
17	TAO130136	198.7141	199.5794	199.1458	1.9002e-01	1.9112e+00
18	TAO120048	85.8782	87.1404	86.5699	2.8970e-01	1.9002e+00
19	TAO130048	202.3479	203.2151	202.8117	1.6709e-01	1.9118e+00
20	TAO120224	202.6203	203.3918	203.0464	1.8483e-01	1.9119e+00
21	TAO130224	191.7836	192.9389	192.2861	2.5025e-01	1.9100e+00
22	TAO120312	199.9890	200.8580	200.4390	2.1353e-01	1.9114e+00
23	TAO130312	199.0469	199.6270	199.3850	1.6122e-01	1.9112e+00
24	TRT020000	153.6633	154.6635	154.1617	2.4782e-01	1.9048e+00
25	TRT070000	180.2183	181.1040	180.6575	2.3129e-01	1.9082e+00
26	TRT100000	196.1187	196.9871	196.4572	2.2608e-01	1.9107e+00
27	TRT120000	456.8931	457.3210	457.0659	9.8550e-02	1.9984e+00
28	TRT125000	80.5167	81.5694	81.1500	2.0892e-01	1.9001e+00
29	TRT130000	202.6505	203.3248	202.9874	1.5590e-01	1.9119e+00
30	EMPTY	39.1464	40.0646	39.7250	2.5074e-01	1.9011e+00
31	TAF050136	114.9321	115.8550	115.4592	2.1522e-01	1.9014e+00
32	TAF070136	125.5814	126.6963	126.1881	2.6775e-01	1.9021e+00
33	TAF080136	177.6288	179.1886	178.6467	3.2166e-01	1.9079e+00
34	TAF090136	81.3276	82.5939	82.0173	3.1256e-01	1.9001e+00
35	TAF100136	145.8058	147.0110	146.4346	2.6995e-01	1.9039e+00
36	TAF105136	149.0414	150.1364	149.6242	2.5407e-01	1.9043e+00
37	TAF110136	152.8184	154.0125	153.4655	2.5152e-01	1.9047e+00
38	TAF115136	158.9143	159.8079	159.4085	2.3758e-01	1.9054e+00
39	TAF120136	179.4370	180.3142	179.8022	2.0548e-01	1.9081e+00
40	TAF125136	165.2033	166.5786	165.8107	2.6598e-01	1.9062e+00
41	TAF130136	168.0224	168.8114	168.3519	1.8872e-01	1.9065e+00
42	TAF120048	164.0589	165.4522	164.7613	2.8317e-01	1.9060e+00
43	TAF130048	170.8855	171.7732	171.3526	2.4116e-01	1.9069e+00
44	TAF120224	159.8160	161.0067	160.4649	2.4159e-01	1.9055e+00
45	TAF130224	165.0243	165.7199	165.3404	1.4983e-01	1.9061e+00

AIM

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Inches

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1078	2.2394e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.6883	1.1129e-01	1.9011e+00
48	TAI130048	199.4477	201.1846	200.3378	4.1688e-01	1.9114e+00
49	TAI130136	203.3753	204.4331	203.8119	2.2916e-01	1.9120e+00
50	TAI130224	203.6311	204.6932	204.2279	2.9682e-01	1.9121e+00
51	TAI130312	196.2451	197.3108	196.8170	2.7140e-01	1.9108e+00
52	TRR130000	119.3165	121.5597	120.3719	4.8894e-01	1.9017e+00
53	TSI000001	59.0809	59.8331	59.4311	1.8777e-01	1.9001e+00
54	TSI000002	89.5836	91.4658	90.4483	4.3032e-01	1.9003e+00
55	TSO000001	56.5675	57.4330	57.0367	2.0922e-01	1.9001e+00
56	TSO000002	68.5296	69.3839	68.9717	2.0913e-01	1.9000e+00
57	TAF020136	95.0968	96.2513	95.6368	2.9536e-01	1.9004e+00
58	TAF120312	160.4828	161.6735	161.1559	2.8180e-01	1.9056e+00
59	TAF130312	172.0787	173.4544	172.7015	3.2107e-01	1.9071e+00
60	EMPTY	2.3730	2.3828	2.3757	2.8266e-03	0.0000e+00
61	EMPTY	2.3682	2.3779	2.3733	1.5314e-03	0.0000e+00
62	EMPTY	2.3633	2.3730	2.3691	2.2058e-03	0.0000e+00
63	EMPTY	2.3682	2.3779	2.3722	2.3531e-03	0.0000e+00
64	EMPTY	1.1865	1.1914	1.1908	1.6028e-03	0.0000e+00
65	EMPTY	1.2061	1.2109	1.2100	1.9730e-03	0.0000e+00
66	EMPTY	1.2158	1.2256	1.2207	9.8648e-04	0.0000e+00
67	EMPTY	1.2354	1.2402	1.2364	2.0432e-03	0.0000e+00
68	EMPTY	1.2451	1.2500	1.2456	1.4797e-03	0.0000e+00
69	EMPTY	1.2598	1.2646	1.2602	1.3381e-03	0.0000e+00
70	EMPTY	1.2695	1.2744	1.2725	2.4164e-03	0.0000e+00
71	EMPTY	1.2891	1.2939	1.2905	2.2603e-03	0.0000e+00
72	EMPTY	1.2988	1.3037	1.3025	2.1065e-03	0.0000e+00
73	EMPTY	1.3135	1.3184	1.3181	1.1714e-03	0.0000e+00
74	EMPTY	1.3281	1.3330	1.3290	1.8950e-03	0.0000e+00
75	EMPTY	1.3428	1.3477	1.3431	1.1714e-03	0.0000e+00
76	EMPTY	1.3525	1.3574	1.3561	2.2146e-03	0.0000e+00
77	EMPTY	1.3672	1.3721	1.3719	9.6655e-04	0.0000e+00
78	EMPTY	1.3867	1.3916	1.3913	1.1714e-03	0.0000e+00
79	EMPTY	1.4014	1.4111	1.4108	1.5314e-03	0.0000e+00
80	PAN020136	-14.6395	-14.2581	-14.4396	8.9731e-02	8.7075e-01
81	PAN050136	-25.5917	-24.9813	-25.3353	1.3238e-01	1.6812e+00
82	PAN070136	-16.7961	-16.4909	-16.6206	7.5904e-02	8.7099e-01
83	PAN080136	-8.2337	-7.9286	-8.0567	8.5041e-02	8.7023e-01
84	PAN090136	-8.7502	-8.4451	-8.6160	7.6387e-02	8.7027e-01
85	PAN100136	-8.4523	-8.1472	-8.3013	6.2592e-02	8.7025e-01
86	PAN105136	-4.2688	-4.0399	-4.1467	5.9697e-02	8.7006e-01
87	PAN110136	-3.5600	-3.3312	-3.4120	6.2440e-02	8.7004e-01
88	PAN115136	-4.1264	-3.7450	-3.9342	9.5316e-02	8.7006e-01
89	PAN120136	-3.6202	-3.3150	-3.4813	7.3422e-02	8.7004e-01
90	PAN125136	-4.3538	-4.1250	-4.2440	6.0015e-02	8.7006e-01
91	PAN130136	-4.8541	-4.5489	-4.6450	7.3616e-02	8.7008e-01
92	PAN120048	-8.7487	-8.4435	-8.6327	7.4306e-02	8.7027e-01
93	PAN130048	-7.9872	-7.6820	-7.8743	7.5888e-02	8.7022e-01
94	PAN120224	-7.2537	-6.8722	-7.0477	8.0462e-02	8.7018e-01
95	PAN130224	-8.7751	-8.4699	-8.5843	6.0192e-02	8.7026e-01
96	PAN120312	-8.3848	-8.1559	-8.2475	7.8595e-02	8.7024e-01
97	PAN130312	-7.9286	-7.6997	-7.7882	6.4222e-02	8.7022e-01
98	PAB000136	40.1823	40.4112	40.3013	5.1492e-02	5.8869e-01
99	PAB100136	42.9773	43.1146	43.0432	4.3535e-02	5.8990e-01
100	PAB125136	43.7044	43.9333	43.7740	4.9146e-02	5.9023e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8366	40.2028	40.0173	8.2682e-02	7.5664e-01
102	PRV000001	19.7186	19.9627	19.8406	3.4877e-02	7.5164e-01
103	PSR000001	43.7169	43.9611	43.8512	5.6508e-02	7.5797e-01
104	PFM000001	5.3030	5.5776	5.4714	8.3460e-02	5.0019e-01
105	PAN000136	-104.7835	-102.4947	-103.9687	5.5712e-01	4.9269e+00
106	PFM000002	5.4028	5.5538	5.4669	3.1926e-02	2.0047e-01
107	EMPTY	-0.0049	0.0049	0.0040	2.5515e-03	0.0000e+00
108	EMPTY	-10.0000	-0.7910	-6.1399	2.9540e+00	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	101.6339	102.0245	101.8760	1.2200e-01	1.0148e+00
113	VPW000002	119.0467	119.4374	119.1288	1.0507e-01	1.0803e+00
114	VPW000003	147.2318	147.6225	147.4311	1.2156e-01	1.1994e+00
115	VPW000004	104.6687	105.0593	104.9149	1.2974e-01	1.0258e+00
116	VPW000005	139.4569	140.0428	139.7030	1.2974e-01	1.1656e+00
117	VPW000006	148.0657	148.6516	148.3468	1.3760e-01	1.2035e+00
118	IPW000001	559.1212	566.9306	564.0022	1.9424e+00	9.2446e+00
119	IPW000002	1276.9558	1294.5172	1282.6923	4.5533e+00	1.2973e+01
120	IPW000003	1302.5999	1312.3499	1306.7336	2.8035e+00	1.3122e+01
121	IPW000004	379.7044	386.5403	381.4329	1.1846e+00	3.6166e+00
122	IPW000005	252.5851	253.5616	253.0537	3.4112e-01	2.8278e+00
123	IPW000006	260.2915	261.7563	260.9261	3.9766e-01	2.8721e+00
124	EMPTY	-0.0244	-0.0098	-0.0190	4.2142e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0131	3.3366e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0141	4.6938e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.6165e-03	0.0000e+00
128	IHT000001	128.1325	130.6716	129.2692	6.0963e-01	4.2990e+00
129	IHT000002	131.7908	134.1346	132.8768	5.5265e-01	4.3099e+00
130	IHT000003	131.9186	134.2623	133.1333	5.8963e-01	4.3107e+00
131	IHT000004	130.2096	132.7486	131.4009	5.7487e-01	4.3054e+00
132	IHT000005	128.6809	131.0246	129.7628	5.1329e-01	4.3004e+00
133	IHT000006	123.8018	126.3409	124.8018	5.0631e-01	4.2857e+00
134	IHT000007	130.7993	133.1431	131.7524	5.0477e-01	4.3065e+00
135	IHT000008	129.3795	131.7233	130.3052	5.2765e-01	4.3021e+00
136	IHT000009	129.5635	132.2979	130.7002	5.3188e-01	4.3033e+00
137	IHT000010	-41.0795	-38.7357	-39.6771	5.5900e-01	4.1192e+00
138	IHT000011	129.7213	132.0650	131.0181	5.3198e-01	4.3043e+00
139	IHT000012	127.3362	129.6800	128.5472	5.0068e-01	4.2968e+00
140	IHT000013	91.0156	93.3594	92.1953	4.8802e-01	4.2024e+00
141	IHT000014	127.3663	129.5147	128.3624	4.6564e-01	4.2962e+00
142	IHT000015	94.8167	96.7698	95.8440	4.4784e-01	4.2105e+00
143	IHT000016	88.3263	90.4747	89.4435	4.7028e-01	4.1964e+00
144	IHT000017	105.2659	108.9769	107.1527	9.6300e-01	4.2377e+00
145	IHT000018	106.9636	109.6980	108.4168	5.6104e-01	4.2409e+00
146	IHT000019	103.4781	106.2124	104.6069	4.9645e-01	4.2313e+00
147	IHT000020	106.5880	108.9318	107.4826	5.2213e-01	4.2385e+00
148	IHT000021	-2.6179	0.1164	-1.2859	6.1850e-01	4.1000e+00
149	IHT000022	92.4692	94.4223	93.3716	4.8148e-01	4.2050e+00
150	IHT000023	104.5598	106.5129	105.3684	4.3764e-01	4.2332e+00
151	IHT000024	69.7679	71.5257	70.4944	4.2506e-01	4.1602e+00
152	IHT000025	105.1345	106.6970	105.7751	4.1953e-01	4.2342e+00
153	IHT000026	105.5213	107.0838	106.2401	4.3304e-01	4.2354e+00
154	IHT000027	89.9940	91.7518	90.9002	4.0387e-01	4.1996e+00
155	IHT000028	91.5302	93.4833	92.3779	5.8075e-01	4.2028e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0105	107.3543	105.9324	6.0237e-01	4.2346e+00
157	IHT000030	107.4031	109.5515	108.2938	5.4270e-01	4.2406e+00
158	IHT000031	105.8368	107.9853	106.6689	5.2171e-01	4.2365e+00
159	IHT000032	107.1326	109.0858	107.9530	4.7679e-01	4.2397e+00
160	IHT000033	107.1552	109.1083	107.9053	4.6414e-01	4.2396e+00
161	IHT000034	93.7425	95.5003	94.6683	4.1349e-01	4.2079e+00
162	IHT000035	123.9183	125.6761	124.8988	4.2221e-01	4.2860e+00
163	IHT000036	92.4091	94.3622	93.3271	4.3270e-01	4.2049e+00

Velocity 1 = 6.0152 (ft/sec) (+/- 4.8827 %)
 Velocity 2 = 5.9995 (ft/sec) (+/- 2.3561 %)
 Pressure drop = -3.7732 (psi)
 Tsat in = 267.7538 (deg F) Tsat out = 272.7280 (deg F)
 Phi inner = 99.8796 (kBtu/hr-ft2) (+/- 1.4154 %)
 Phi outer = 100.6667 (kBtu/hr-ft2) (+/- 1.5420 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	80.8549	81.9158	81.4916	2.1433e-01	1.9001e+00
1	TRF000002	81.4160	82.0492	81.6187	1.2030e-01	1.9001e+00
2	TFM000001	85.9620	86.8028	86.3153	2.2044e-01	1.9002e+00
3	TIN000001	85.0988	85.8377	85.4667	1.6949e-01	1.9002e+00
4	TRV000001	86.0619	87.1117	86.6378	2.2156e-01	1.9002e+00
5	TSR000001	116.9019	118.6376	117.6940	4.2257e-01	1.9015e+00
6	TAO020136	67.9531	69.7704	68.8256	3.8470e-01	1.9000e+00
7	TAO050136	159.3966	160.4873	159.9133	2.5618e-01	1.9054e+00
8	TAO070136	160.2915	162.1850	161.2048	3.7038e-01	1.9056e+00
9	TAO080136	114.8370	140.3038	121.8580	5.6818e+00	1.9018e+00
10	TAO090136	187.0446	187.8242	187.4194	1.8394e-01	1.9093e+00
11	TAO100136	187.0982	188.2657	187.7520	2.7472e-01	1.9093e+00
12	TAO105136	191.2933	192.3632	191.8306	2.3760e-01	1.9100e+00
13	TAO110136	83.6800	84.5202	84.0805	1.8140e-01	1.9001e+00
14	TAO115136	192.4652	193.6310	193.1106	2.4951e-01	1.9102e+00
15	TAO120136	205.2130	205.9840	205.5834	1.9789e-01	1.9123e+00
16	TAO125136	122.3943	123.4126	122.8058	2.4980e-01	1.9019e+00
17	TAO130136	199.8558	200.6234	200.2586	1.6453e-01	1.9114e+00
18	TAO120048	90.4928	91.6451	91.0460	2.8766e-01	1.9003e+00
19	TAO130048	203.5937	204.2695	203.9378	1.5706e-01	1.9120e+00
20	TAO120224	203.6783	204.5465	204.1798	2.0966e-01	1.9121e+00
21	TAO130224	192.6468	193.8988	193.3098	2.5224e-01	1.9102e+00
22	TAO120312	201.1462	202.1129	201.7498	1.8569e-01	1.9117e+00
23	TAO130312	199.9121	200.7821	200.4303	1.8674e-01	1.9114e+00
24	TRT020000	154.3634	155.3632	154.8954	2.7126e-01	1.9048e+00
25	TRT070000	181.4004	182.3845	181.9359	2.1785e-01	1.9084e+00
26	TRT100000	197.0832	197.8559	197.4425	1.9897e-01	1.9109e+00
27	TRT120000	456.8070	457.2356	457.0609	1.0516e-01	1.9984e+00
28	TRT125000	85.6457	86.5903	86.1168	1.9458e-01	1.9002e+00
29	TRT130000	203.6092	204.4767	204.0917	1.8967e-01	1.9121e+00
30	EMPTY	39.3761	40.0646	39.7480	2.2185e-01	1.9011e+00
31	TAF050136	115.4440	116.5703	115.9153	2.4217e-01	1.9014e+00
32	TAF070136	126.7964	128.0120	127.2831	2.4738e-01	1.9022e+00
33	TAF080136	179.1818	181.8066	180.4517	4.9635e-01	1.9082e+00
34	TAF090136	84.2751	85.5376	84.8938	2.9272e-01	1.9001e+00
35	TAF100136	147.0100	148.2151	147.5412	2.5094e-01	1.9040e+00
36	TAF105136	150.6313	151.6222	151.1174	2.3814e-01	1.9044e+00
37	TAF110136	154.9043	155.8004	155.2357	2.1596e-01	1.9049e+00
38	TAF115136	160.1020	161.1939	160.6227	2.3152e-01	1.9055e+00
39	TAF120136	180.5089	181.4837	181.0653	2.1492e-01	1.9083e+00
40	TAF125136	166.2810	167.7539	166.9337	3.1916e-01	1.9063e+00
41	TAF130136	169.0055	169.7950	169.3733	1.8900e-01	1.9066e+00
42	TAF120048	164.6559	165.9497	165.3248	2.8289e-01	1.9061e+00
43	TAF130048	171.9665	172.9521	172.4600	2.0951e-01	1.9071e+00
44	TAF120224	160.8058	162.0954	161.3230	2.9590e-01	1.9056e+00
45	TAF130224	165.9191	166.8134	166.3246	1.8913e-01	1.9062e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1216	1.5552e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.6745	1.0625e-01	1.9011e+00
48	TAI130048	200.3167	202.3415	201.4775	4.3165e-01	1.9116e+00
49	TAI130136	204.5255	205.6797	205.0997	2.8381e-01	1.9123e+00
50	TAI130224	204.6926	206.3313	205.4527	3.3268e-01	1.9123e+00
51	TAI130312	197.5041	198.6660	198.1625	2.5194e-01	1.9110e+00
52	TRR130000	118.7039	120.0326	119.3913	2.9894e-01	1.9016e+00
53	TSI000001	58.8653	59.8331	59.3819	2.0149e-01	1.9001e+00
54	TSI000002	89.0591	90.8404	90.0908	3.9657e-01	1.9003e+00
55	TSO000001	56.6752	57.5412	57.1083	1.8551e-01	1.9001e+00
56	TSO000002	68.8497	69.7037	69.2853	1.9392e-01	1.9000e+00
57	TAF020136	95.3075	96.3569	95.8700	2.5952e-01	1.9005e+00
58	TAF120312	160.9783	162.8643	162.1423	3.7936e-01	1.9057e+00
59	TAF130312	173.0588	174.5324	173.7794	3.3928e-01	1.9072e+00
60	EMPTY	2.3926	2.4121	2.4015	3.2253e-03	0.0000e+00
61	EMPTY	2.3926	2.4023	2.3979	2.4662e-03	0.0000e+00
62	EMPTY	2.3926	2.3975	2.3945	2.4164e-03	0.0000e+00
63	EMPTY	2.3926	2.3975	2.3974	6.9053e-04	0.0000e+00
64	EMPTY	1.2012	1.2061	1.2022	2.0432e-03	0.0000e+00
65	EMPTY	1.2158	1.2256	1.2207	9.8648e-04	0.0000e+00
66	EMPTY	1.2256	1.2354	1.2337	2.5362e-03	0.0000e+00
67	EMPTY	1.2451	1.2549	1.2486	2.4244e-03	0.0000e+00
68	EMPTY	1.2549	1.2598	1.2590	1.8082e-03	0.0000e+00
69	EMPTY	1.2695	1.2744	1.2735	1.8950e-03	0.0000e+00
70	EMPTY	1.2793	1.2891	1.2842	1.3951e-03	0.0000e+00
71	EMPTY	1.2988	1.3086	1.3036	1.2041e-03	0.0000e+00
72	EMPTY	1.3086	1.3184	1.3135	9.8648e-04	0.0000e+00
73	EMPTY	1.3281	1.3330	1.3286	1.4797e-03	0.0000e+00
74	EMPTY	1.3379	1.3428	1.3425	1.1714e-03	0.0000e+00
75	EMPTY	1.3525	1.3574	1.3573	6.9053e-04	0.0000e+00
76	EMPTY	1.3623	1.3721	1.3672	9.8648e-04	0.0000e+00
77	EMPTY	1.3818	1.3867	1.3821	1.1714e-03	0.0000e+00
78	EMPTY	1.4014	1.4014	1.4014	0.0000e+00	0.0000e+00
79	EMPTY	1.4209	1.4258	1.4210	6.9053e-04	0.0000e+00
80	PAN020136	-14.6395	-14.3343	-14.5068	8.2733e-02	8.7076e-01
81	PAN050136	-25.7442	-25.1339	-25.4177	1.3083e-01	1.6812e+00
82	PAN070136	-16.7961	-16.4146	-16.6695	9.0679e-02	8.7100e-01
83	PAN080136	-8.2337	-7.9286	-8.0613	8.6934e-02	8.7023e-01
84	PAN090136	-8.8265	-8.5213	-8.6648	7.8049e-02	8.7027e-01
85	PAN100136	-8.4523	-8.2235	-8.3211	7.5574e-02	8.7025e-01
86	PAN105136	-4.2688	-4.0399	-4.1543	6.4018e-02	8.7006e-01
87	PAN110136	-3.5600	-3.2549	-3.4319	7.3016e-02	8.7004e-01
88	PAN115136	-4.0501	-3.7450	-3.9448	8.8397e-02	8.7006e-01
89	PAN120136	-3.6202	-3.3913	-3.4951	7.0230e-02	8.7004e-01
90	PAN125136	-4.3538	-4.1250	-4.2959	6.0801e-02	8.7007e-01
91	PAN130136	-4.7015	-4.5489	-4.6206	6.4314e-02	8.7008e-01
92	PAN120048	-8.8250	-8.5961	-8.7090	7.4306e-02	8.7027e-01
93	PAN130048	-8.0635	-7.7583	-7.9246	6.8396e-02	8.7023e-01
94	PAN120224	-7.2537	-6.9485	-7.0767	8.6427e-02	8.7018e-01
95	PAN130224	-8.7751	-8.4699	-8.6087	7.5022e-02	8.7027e-01
96	PAN120312	-8.3848	-8.1559	-8.2704	7.8972e-02	8.7025e-01
97	PAN130312	-7.9286	-7.6234	-7.8019	7.6465e-02	8.7022e-01
98	PAB000136	40.1365	40.4570	40.2592	5.6588e-02	5.8867e-01
99	PAB100136	42.9315	43.0689	42.9984	3.7235e-02	5.8988e-01
100	PAB125136	43.6587	43.8418	43.7402	4.5580e-02	5.9022e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8366	40.2028	40.0027	7.2993e-02	7.5664e-01
102	PRV000001	19.5965	19.8406	19.7332	5.3123e-02	7.5162e-01
103	PSR000001	43.7169	43.9611	43.8195	6.2195e-02	7.5796e-01
104	PFM000001	5.2114	5.6692	5.4495	9.9606e-02	5.0019e-01
105	PAN000136	-105.6990	-102.9525	-104.4631	6.9362e-01	4.9269e+00
106	PFM000002	5.3356	5.4867	5.4206	3.4138e-02	2.0046e-01
107	EMPTY	-0.0049	0.0049	0.0038	2.6635e-03	0.0000e+00
108	EMPTY	-10.0000	-0.2783	-4.1710	2.5505e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0021	2.4484e-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	101.8292	102.2198	102.0010	1.0168e-01	1.0152e+00
113	VPW000002	118.8514	119.4374	119.1757	1.3445e-01	1.0805e+00
114	VPW000003	147.2318	147.8178	147.5288	1.1995e-01	1.1998e+00
115	VPW000004	104.6687	105.2546	104.9266	1.2750e-01	1.0259e+00
116	VPW000005	139.4569	140.0428	139.7460	1.2627e-01	1.1658e+00
117	VPW000006	148.0657	148.6516	148.2804	1.4363e-01	1.2032e+00
118	IPW000001	559.1212	564.9782	563.4163	1.6263e+00	9.2424e+00
119	IPW000002	1280.8583	1296.4685	1289.4048	3.9597e+00	1.3014e+01
120	IPW000003	1306.4999	1314.2999	1310.1267	1.9304e+00	1.3143e+01
121	IPW000004	379.7044	381.6575	380.5345	5.3352e-01	3.6107e+00
122	IPW000005	252.5851	254.0498	253.1416	3.6920e-01	2.8283e+00
123	IPW000006	259.8032	261.7563	260.6917	5.0964e-01	2.8708e+00
124	EMPTY	-0.0293	-0.0098	-0.0193	4.2954e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0127	3.4173e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0154	3.0180e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	3.2057e-03	0.0000e+00
128	IHT000001	127.9372	130.4762	129.3746	5.9288e-01	4.2993e+00
129	IHT000002	131.7908	134.1346	132.9784	5.3356e-01	4.3103e+00
130	IHT000003	132.1139	134.2623	133.1607	5.0803e-01	4.3108e+00
131	IHT000004	130.4049	132.7486	131.4556	5.3363e-01	4.3056e+00
132	IHT000005	128.8762	130.6340	129.9074	4.5342e-01	4.3009e+00
133	IHT000006	123.8018	125.5596	124.8877	4.5191e-01	4.2860e+00
134	IHT000007	130.7993	132.7524	131.9048	4.7941e-01	4.3070e+00
135	IHT000008	129.3795	131.1373	130.3794	4.4754e-01	4.3023e+00
136	IHT000009	129.7589	131.5167	130.7588	4.7783e-01	4.3035e+00
137	IHT000010	-40.6889	-38.3451	-39.5365	5.4140e-01	4.1190e+00
138	IHT000011	129.9166	132.2603	131.0298	5.3123e-01	4.3043e+00
139	IHT000012	127.5315	130.0706	128.6097	5.2975e-01	4.2970e+00
140	IHT000013	91.2109	93.3594	92.2773	5.1329e-01	4.2026e+00
141	IHT000014	127.5616	130.1007	128.4561	5.3100e-01	4.2965e+00
142	IHT000015	95.0120	97.5511	95.8675	5.1734e-01	4.2106e+00
143	IHT000016	88.7169	91.2560	89.5763	5.0992e-01	4.1967e+00
144	IHT000017	105.2659	108.9769	107.1253	8.7279e-01	4.2376e+00
145	IHT000018	107.3543	109.6980	108.3309	5.4960e-01	4.2407e+00
146	IHT000019	103.4781	106.0171	104.7202	5.2014e-01	4.2316e+00
147	IHT000020	106.3927	108.9318	107.5529	5.0132e-01	4.2387e+00
148	IHT000021	-2.6179	0.5071	-1.2390	6.2814e-01	4.1000e+00
149	IHT000022	92.4692	95.0083	93.5239	5.1297e-01	4.2053e+00
150	IHT000023	104.3645	106.7083	105.4699	4.9064e-01	4.2335e+00
151	IHT000024	69.5726	71.5257	70.6155	4.7287e-01	4.1604e+00
152	IHT000025	104.7439	106.6970	105.8259	4.4853e-01	4.2344e+00
153	IHT000026	105.3260	107.0838	106.2713	4.2565e-01	4.2355e+00
154	IHT000027	90.1893	91.7518	91.0760	4.2537e-01	4.1999e+00
155	IHT000028	91.3349	93.6786	92.4990	5.4385e-01	4.2030e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8152	107.7449	105.9832	6.1951e-01	4.2348e+00
157	IHT000030	107.0125	109.7469	108.3289	6.6123e-01	4.2407e+00
158	IHT000031	105.4462	108.1806	106.7002	6.8809e-01	4.2366e+00
159	IHT000032	106.5467	109.2811	107.9725	6.8714e-01	4.2398e+00
160	IHT000033	106.5693	109.3036	107.9443	6.6258e-01	4.2397e+00
161	IHT000034	93.7425	95.8909	94.6331	5.5686e-01	4.2078e+00
162	IHT000035	123.9183	126.2620	124.9144	6.3042e-01	4.2861e+00
163	IHT000036	92.2138	94.5575	93.2763	5.7475e-01	4.2048e+00

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Velocity 1 = 0.011600 (ft/sec)

Velocity 2 = 0.024900 (ft/sec)

Pressure Drop = 0.017900 (psi)

Tsat in = 0.062378 (deg F) Tsat out = 0.046692 (deg F)

Phi inner = 0.248001 (kBtu/hr-ft2) Phi outer = 0.282600 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0255	0.0313
1	TRF000002	0.0380	0.0465
2	TFM000001	0.6570	0.7670
3	TIN000001	0.5630	0.6631
4	TRV000001	0.8519	0.9931
5	TSR000001	4.9220	4.3646
6	TAO020136	1.7087	2.5459
7	TAO050136	2.6132	1.6613
8	TAO070136	0.6640	0.4136
9	TAO080136	60.9377	33.3365
10	TAO090136	1.3431	0.7218
11	TAO100136	1.9077	1.0265
12	TAO105136	0.9665	0.5064
13	TAO110136	3.1395	3.8787
14	TAO115136	1.0230	0.5326
15	TAO120136	1.1835	0.5790
16	TAO125136	1.0453	0.8585
17	TAO130136	1.1128	0.5588
18	TAO120048	4.4761	5.1705
19	TAO130048	1.1261	0.5552
20	TAO120224	1.1334	0.5582
21	TAO130224	1.0237	0.5324
22	TAO120312	1.3108	0.6540
23	TAO130312	1.0453	0.5243
24	TRT020000	0.7337	0.4759
25	TRT070000	1.2784	0.7076
26	TRT100000	0.9853	0.5015
27	TRT120000	0.0050	0.0011
28	TRT125000	4.9668	6.1205
29	TRT130000	1.1043	0.5440
30	EMPTY	0.0230	0.0579
31	TAF050136	0.4561	0.3950
32	TAF070136	1.0950	0.8677
33	TAF080136	1.8050	1.0104
34	TAF090136	2.8765	3.5072
35	TAF100136	1.1066	0.7557
36	TAF105136	1.4932	0.9980
37	TAF110136	1.7702	1.1535
38	TAF115136	1.2142	0.7617
39	TAF120136	1.2631	0.7025
40	TAF125136	1.1230	0.6773
41	TAF130136	1.0214	0.6067
42	TAF120048	0.5635	0.3420
43	TAF130048	1.1074	0.6463
44	TAF120224	0.8581	0.5348
45	TAF130224	0.9842	0.5953

#	Name	Abs Diff	%Diff
46	EMPTY	0.0138	0.0362
47	EMPTY	0.0138	0.0348
48	TAI130048	1.1397	0.5689
49	TAI130136	1.2878	0.6319
50	TAI130224	1.2248	0.5997
51	TAI130312	1.3455	0.6836
52	TRR130000	0.9806	0.8146
53	TSI000001	0.0492	0.0828
54	TSI000002	0.3575	0.3953
55	TSO000001	0.0716	0.1255
56	TSO000002	0.3136	0.4547
57	TAF020136	0.2332	0.2438
58	TAF120312	0.9864	0.6121
59	TAF130312	1.0779	0.6241
60	EMPTY	0.0258	1.0860
61	EMPTY	0.0246	1.0365
62	EMPTY	0.0254	1.0721
63	EMPTY	0.0252	1.0623
64	EMPTY	0.0114	0.9573
65	EMPTY	0.0107	0.8843
66	EMPTY	0.0130	1.0650
67	EMPTY	0.0122	0.9867
68	EMPTY	0.0134	1.0758
69	EMPTY	0.0133	1.0554
70	EMPTY	0.0117	0.9194
71	EMPTY	0.0131	1.0151
72	EMPTY	0.0110	0.8445
73	EMPTY	0.0105	0.7966
74	EMPTY	0.0135	1.0158
75	EMPTY	0.0142	1.0573
76	EMPTY	0.0111	0.8185
77	EMPTY	0.0102	0.7435
78	EMPTY	0.0101	0.7259
79	EMPTY	0.0102	0.7230
80	PAN020136	0.0672	0.4654
81	PAN050136	0.0824	0.3252
82	PAN070136	0.0489	0.2942
83	PAN080136	0.0046	0.0571
84	PAN090136	0.0488	0.5664
85	PAN100136	0.0198	0.2385
86	PAN105136	0.0076	0.1833
87	PAN110136	0.0199	0.5832
88	PAN115136	0.0106	0.2694
89	PAN120136	0.0138	0.3964
90	PAN125136	0.0519	1.2229
91	PAN130136	0.0244	0.5253
92	PAN120048	0.0763	0.8838
93	PAN130048	0.0503	0.6388
94	PAN120224	0.0290	0.4115
95	PAN130224	0.0244	0.2842
96	PAN120312	0.0229	0.2777
97	PAN130312	0.0137	0.1759
98	PAB000136	0.0421	0.1045
99	PAB100136	0.0448	0.1041
100	PAB125136	0.0338	0.0772

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0146	0.0365
102	PRV000001	0.1074	0.5413
103	PSR000001	0.0317	0.0723
104	PFM000001	0.0219	0.4003
105	PAN000136	0.4944	0.4755
106	PFM000002	0.0463	0.8469
107	EMPTY	0.0002	5.0000
108	EMPTY	1.9689	32.0673
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.1250	0.1227
113	VPW000002	0.0469	0.0394
114	VPW000003	0.0977	0.0663
115	VPW000004	0.0117	0.0111
116	VPW000005	0.0430	0.0308
117	VPW000006	0.0664	0.0448
118	IPW000001	0.5859	0.1039
119	IPW000002	6.7125	0.5233
120	IPW000003	3.3931	0.2597
121	IPW000004	0.8984	0.2355
122	IPW000005	0.0879	0.0347
123	IPW000006	0.2344	0.0898
124	EMPTY	0.0003	1.5790
125	EMPTY	0.0004	3.0534
126	EMPTY	0.0013	9.2199
127	EMPTY	0.0004	2.4691
128	IHT000001	0.1054	0.0815
129	IHT000002	0.1016	0.0765
130	IHT000003	0.0274	0.0206
131	IHT000004	0.0547	0.0416
132	IHT000005	0.1446	0.1114
133	IHT000006	0.0859	0.0688
134	IHT000007	0.1524	0.1157
135	IHT000008	0.0742	0.0569
136	IHT000009	0.0586	0.0448
137	IHT000010	0.1406	0.3544
138	IHT000011	0.0117	0.0089
139	IHT000012	0.0625	0.0486
140	IHT000013	0.0820	0.0889
141	IHT000014	0.0937	0.0730
142	IHT000015	0.0235	0.0245
143	IHT000016	0.1328	0.1485
144	IHT000017	0.0274	0.0256
145	IHT000018	0.0859	0.0792
146	IHT000019	0.1133	0.1083
147	IHT000020	0.0703	0.0654
148	IHT000021	0.0469	3.6473
149	IHT000022	0.1523	0.1631
150	IHT000023	0.1015	0.0963
151	IHT000024	0.1211	0.1718
152	IHT000025	0.0508	0.0480
153	IHT000026	0.0312	0.0294
154	IHT000027	0.1758	0.1934
155	IHT000028	0.1211	0.1311

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0508	0.0480
157	IHT000030	0.0351	0.0324
158	IHT000031	0.0313	0.0293
159	IHT000032	0.0195	0.0181
160	IHT000033	0.0390	0.0361
161	IHT000034	0.0352	0.0372
162	IHT000035	0.0156	0.0125
163	IHT000036	0.0508	0.0544

Velocity 1 = 4.0082 (ft/sec) (+/- 10.6257 %)
 Velocity 2 = 4.0016 (ft/sec) (+/- 4.1428 %)
 Pressure drop = -4.6340 (psi)
 Tsat in = 267.8853 (deg F) Tsat out = 274.0029 (deg F)
 Phi inner = 99.9265 (kBtu/hr-ft2) (+/- 1.4154 %)
 Phi outer = 100.7011 (kBtu/hr-ft2) (+/- 1.5423 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.0672	81.7037	81.4576	1.9812e-01	1.9001e+00
1	TRF000002	81.4160	81.8382	81.6060	1.3652e-01	1.9001e+00
2	TFM000001	85.9611	86.9069	86.5145	1.8602e-01	1.9002e+00
3	TIN000001	85.4154	86.2591	85.7511	1.7263e-01	1.9002e+00
4	TRV000001	86.2712	87.3208	86.8615	2.4229e-01	1.9002e+00
5	TSR000001	120.3669	122.0979	121.0589	3.4617e-01	1.9018e+00
6	TAO020136	68.9147	71.0504	70.0237	4.7885e-01	1.9000e+00
7	TAO050136	190.8237	192.1761	191.5632	2.8413e-01	1.9099e+00
8	TAO070136	191.7508	193.7979	192.8020	5.1393e-01	1.9101e+00
9	TAO080136	122.5700	126.9260	124.5971	9.9765e-01	1.9020e+00
10	TAO090136	229.8500	230.8901	230.5399	2.2303e-01	1.9173e+00
11	TAO100136	230.8706	232.0992	231.4887	2.9018e-01	1.9175e+00
12	TAO105136	237.9149	239.8005	238.8748	3.7595e-01	1.9191e+00
13	TAO110136	87.7438	88.3733	88.0855	1.9474e-01	1.9002e+00
14	TAO115136	239.5670	241.7305	240.7512	5.7822e-01	1.9195e+00
15	TAO120136	254.9136	256.1260	255.4495	2.8244e-01	1.9230e+00
16	TAO125136	146.0154	148.2176	146.9190	5.7450e-01	1.9040e+00
17	TAO130136	249.4472	250.6496	249.9235	2.9940e-01	1.9217e+00
18	TAO120048	95.4025	96.5508	95.9812	3.0915e-01	1.9005e+00
19	TAO130048	253.8785	255.0881	254.5394	2.7096e-01	1.9228e+00
20	TAO120224	251.7908	253.0966	252.4978	2.8349e-01	1.9223e+00
21	TAO130224	240.5710	242.4340	241.3030	5.0675e-01	1.9197e+00
22	TAO120312	250.9040	252.1198	251.5049	2.5915e-01	1.9221e+00
23	TAO130312	249.0640	249.9985	249.5367	2.1563e-01	1.9216e+00
24	TRT020000	180.6013	182.2687	181.4353	3.4211e-01	1.9083e+00
25	TRT070000	219.0202	220.3627	219.7700	2.9613e-01	1.9151e+00
26	TRT100000	243.0408	244.2588	243.6383	2.8132e-01	1.9202e+00
27	TRT120000	456.8074	457.2352	457.0420	1.0772e-01	1.9984e+00
28	TRT125000	90.6507	91.3821	91.0094	1.8408e-01	1.9003e+00
29	TRT130000	253.2080	254.0469	253.5866	1.8307e-01	1.9226e+00
30	EMPTY	39.3761	40.0646	39.8030	2.2721e-01	1.9011e+00
31	TAF050136	130.8971	132.2106	131.3546	2.6900e-01	1.9025e+00
32	TAF070136	148.7743	150.6665	149.7648	4.2229e-01	1.9043e+00
33	TAF080136	206.5237	234.3990	220.8702	7.1234e+00	1.9153e+00
34	TAF090136	86.0611	87.2170	86.6894	3.0202e-01	1.9002e+00
35	TAF100136	179.9461	181.1228	180.5129	3.0255e-01	1.9082e+00
36	TAF105136	184.3138	186.7314	185.4961	4.3178e-01	1.9090e+00
37	TAF110136	190.1976	192.4255	191.3083	5.7443e-01	1.9099e+00
38	TAF115136	197.1387	199.7429	198.1949	6.5430e-01	1.9110e+00
39	TAF120136	225.9202	229.5972	227.6157	1.0482e+00	1.9167e+00
40	TAF125136	207.5237	210.7631	208.7853	6.5182e-01	1.9129e+00
41	TAF130136	210.9830	214.5156	212.1424	7.2021e-01	1.9136e+00
42	TAF120048	205.6789	210.0270	207.5212	1.1144e+00	1.9127e+00
43	TAF130048	216.1239	219.6498	217.5101	1.0079e+00	1.9146e+00
44	TAF120224	199.3149	202.2051	200.3999	5.2785e-01	1.9114e+00
45	TAF130224	207.2545	209.6669	208.1485	6.0863e-01	1.9128e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1446	2.0647e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8903	1.2747e-01	1.9011e+00
48	TAI130048	254.1479	256.3843	255.2681	4.7497e-01	1.9230e+00
49	TAI130136	257.5317	258.7404	258.1141	2.9353e-01	1.9237e+00
50	TAI130224	256.9439	258.2498	257.6176	2.7392e-01	1.9236e+00
51	TAI130312	248.9904	250.2072	249.6474	2.8719e-01	1.9216e+00
52	TRR130000	103.3065	105.9917	104.6515	6.9145e-01	1.9008e+00
53	TSI000001	59.8304	60.6901	60.2326	1.9266e-01	1.9001e+00
54	TSI000002	88.3270	90.4223	89.0926	4.3166e-01	1.9002e+00
55	TSO000001	56.5669	57.4324	56.9936	2.3168e-01	1.9001e+00
56	TSO000002	72.7895	73.5350	73.1582	1.8643e-01	1.9000e+00
57	TAF020136	100.3393	102.0119	101.1446	3.6707e-01	1.9007e+00
58	TAF120312	201.7801	204.5766	203.6185	5.9976e-01	1.9120e+00
59	TAF130312	216.8625	219.4340	218.1218	5.1302e-01	1.9147e+00
60	EMPTY	3.5010	3.5303	3.5122	6.9929e-03	0.0000e+00
61	EMPTY	3.4912	3.5156	3.4990	6.3931e-03	0.0000e+00
62	EMPTY	3.4717	3.4961	3.4854	5.8933e-03	0.0000e+00
63	EMPTY	3.4717	3.4912	3.4819	5.3352e-03	0.0000e+00
64	EMPTY	1.6797	1.6895	1.6818	2.6396e-03	0.0000e+00
65	EMPTY	1.6943	1.6992	1.6965	2.4484e-03	0.0000e+00
66	EMPTY	1.6992	1.7090	1.7063	2.6488e-03	0.0000e+00
67	EMPTY	1.7139	1.7236	1.7198	2.6635e-03	0.0000e+00
68	EMPTY	1.7236	1.7285	1.7263	2.4583e-03	0.0000e+00
69	EMPTY	1.7334	1.7432	1.7384	3.1950e-03	0.0000e+00
70	EMPTY	1.7432	1.7529	1.7475	2.8996e-03	0.0000e+00
71	EMPTY	1.7578	1.7676	1.7643	2.5034e-03	0.0000e+00
72	EMPTY	1.7676	1.7773	1.7719	3.3656e-03	0.0000e+00
73	EMPTY	1.7822	1.7920	1.7857	3.5623e-03	0.0000e+00
74	EMPTY	1.7920	1.8018	1.7954	3.3087e-03	0.0000e+00
75	EMPTY	1.8018	1.8115	1.8072	3.0628e-03	0.0000e+00
76	EMPTY	1.8115	1.8213	1.8150	3.6963e-03	0.0000e+00
77	EMPTY	1.8262	1.8359	1.8291	3.4173e-03	0.0000e+00
78	EMPTY	1.8408	1.8506	1.8452	3.5908e-03	0.0000e+00
79	EMPTY	1.8604	1.8652	1.8627	2.4642e-03	0.0000e+00
80	PAN020136	-17.2335	-16.8520	-16.9924	7.2886e-02	8.7104e-01
81	PAN050136	-31.3900	-30.7796	-31.1154	1.4784e-01	1.6818e+00
82	PAN070136	-20.2293	-19.9242	-20.1240	6.8742e-02	8.7145e-01
83	PAN080136	-10.9040	-10.5989	-10.7499	8.6495e-02	8.7041e-01
84	PAN090136	-9.8183	-9.5132	-9.7054	8.6151e-02	8.7034e-01
85	PAN100136	-12.2670	-12.0382	-12.1572	4.4030e-02	8.7053e-01
86	PAN105136	-4.9554	3.6658	-3.6035	1.9079e+00	8.7005e-01
87	PAN110136	-7.2984	2.1620	-4.0270	1.8197e+00	8.7006e-01
88	PAN115136	-7.4834	1.9771	-4.4545	1.6429e+00	8.7007e-01
89	PAN120136	-6.8245	2.1019	-4.8775	1.2079e+00	8.7009e-01
90	PAN125136	-6.0323	-4.2775	-5.0512	4.0781e-01	8.7009e-01
91	PAN130136	-5.6170	-4.0911	-4.8464	3.6678e-01	8.7008e-01
92	PAN120048	-12.0293	-5.0866	-10.2746	9.7667e-01	8.7038e-01
93	PAN130048	-12.7937	-8.7501	-9.7633	7.5543e-01	8.7034e-01
94	PAN120224	-9.2373	-7.4063	-7.9846	3.5421e-01	8.7023e-01
95	PAN130224	-10.6061	-9.0802	-10.0476	3.4481e-01	8.7036e-01
96	PAN120312	-13.7254	-4.8753	-9.4361	1.4191e+00	8.7032e-01
97	PAN130312	-14.4136	-9.0730	-9.9367	9.7038e-01	8.7035e-01
98	PAB000136	40.2281	40.4570	40.3480	4.7057e-02	5.8871e-01
99	PAB100136	43.7555	43.8928	43.8333	3.8411e-02	5.9026e-01
100	PAB125136	44.5742	44.7573	44.6722	4.7166e-02	5.9065e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9587	40.2028	40.0930	7.8957e-02	7.5667e-01
102	PRV000001	19.3524	19.5965	19.5037	6.3165e-02	7.5158e-01
103	PSR000001	44.5714	44.8156	44.7765	6.2585e-02	7.5831e-01
104	PFM000001	2.2817	2.5564	2.3825	6.9823e-02	5.0004e-01
105	PAN000136	-129.5027	-126.7562	-128.2943	6.7175e-01	4.9304e+00
106	PFM000002	2.3153	2.4327	2.3744	2.4267e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	0.0022	3.8473e-03	0.0000e+00
108	EMPTY	-10.0000	-0.0732	-4.2046	2.9686e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0006	2.1249e-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	101.8292	102.4151	102.1573	1.4466e-01	1.0158e+00
113	VPW000002	119.0467	119.6327	119.2967	1.4249e-01	1.0809e+00
114	VPW000003	147.4271	148.0131	147.7280	1.3211e-01	1.2007e+00
115	VPW000004	104.8640	105.4500	105.1219	1.6944e-01	1.0266e+00
116	VPW000005	139.6522	140.2381	140.0155	1.4770e-01	1.1670e+00
117	VPW000006	148.2610	148.6516	148.4601	1.3375e-01	1.2040e+00
118	IPW000001	551.3118	564.9782	559.8239	3.3413e+00	9.2287e+00
119	IPW000002	1286.7122	1302.3223	1291.4341	3.8441e+00	1.3027e+01
120	IPW000003	1302.5999	1316.2499	1309.1913	3.3635e+00	1.3137e+01
121	IPW000004	378.2395	381.1692	379.5970	7.5959e-01	3.6046e+00
122	IPW000005	252.0969	253.0734	252.6729	3.2250e-01	2.8257e+00
123	IPW000006	259.3149	261.2681	260.2816	6.1991e-01	2.8685e+00
124	EMPTY	-0.0244	-0.0098	-0.0188	4.1102e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0121	3.4513e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0138	4.1491e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.5307e-03	0.0000e+00
128	IHT000001	127.9372	130.6716	129.0778	5.3140e-01	4.2984e+00
129	IHT000002	131.5955	133.9393	132.6190	4.6948e-01	4.3092e+00
130	IHT000003	131.7233	134.0670	132.8521	5.0268e-01	4.3099e+00
131	IHT000004	130.0143	132.5533	131.1587	4.8650e-01	4.3047e+00
132	IHT000005	128.2903	130.6340	129.4894	4.7188e-01	4.2996e+00
133	IHT000006	123.6065	125.7550	124.5909	5.0062e-01	4.2851e+00
134	IHT000007	130.7993	132.5571	131.6548	4.6670e-01	4.3062e+00
135	IHT000008	129.1842	131.1373	130.1529	4.7014e-01	4.3016e+00
136	IHT000009	129.5635	131.3214	130.5244	4.7325e-01	4.3028e+00
137	IHT000010	-41.0795	-38.5404	-39.8490	5.4712e-01	4.1193e+00
138	IHT000011	129.5260	131.8697	130.6119	5.1321e-01	4.3030e+00
139	IHT000012	127.1409	129.4847	128.2464	5.4905e-01	4.2959e+00
140	IHT000013	91.0156	93.3594	92.1289	5.8294e-01	4.2022e+00
141	IHT000014	127.1710	129.5147	128.2647	5.7182e-01	4.2959e+00
142	IHT000015	94.6214	96.7698	95.7347	5.3706e-01	4.2103e+00
143	IHT000016	88.5216	90.6701	89.4904	5.3664e-01	4.1965e+00
144	IHT000017	105.0706	108.7816	107.1175	9.3230e-01	4.2376e+00
145	IHT000018	106.9636	109.8933	108.2137	6.1511e-01	4.2404e+00
146	IHT000019	103.6734	105.6265	104.5054	4.6154e-01	4.2311e+00
147	IHT000020	106.3927	108.7365	107.3341	5.2153e-01	4.2382e+00
148	IHT000021	-2.6179	0.1164	-1.3015	6.4935e-01	4.1000e+00
149	IHT000022	92.2739	94.4223	93.3286	4.9126e-01	4.2049e+00
150	IHT000023	104.3645	106.3176	105.2277	4.6704e-01	4.2329e+00
151	IHT000024	69.5726	71.7210	70.4007	4.6615e-01	4.1600e+00
152	IHT000025	104.7439	106.6970	105.6384	4.6704e-01	4.2339e+00
153	IHT000026	104.9354	107.4745	106.0799	5.4105e-01	4.2350e+00
154	IHT000027	89.9940	92.1424	90.9158	5.1303e-01	4.1996e+00
155	IHT000028	91.1396	93.8739	92.4130	5.1029e-01	4.2029e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.4246	107.1590	105.8192	4.8168e-01	4.2344e+00
157	IHT000030	106.8172	109.5515	108.1922	4.9906e-01	4.2403e+00
158	IHT000031	105.0556	107.5947	106.5166	4.9637e-01	4.2361e+00
159	IHT000032	106.3514	108.8905	107.8202	4.8846e-01	4.2394e+00
160	IHT000033	106.3740	108.9130	107.7920	5.0963e-01	4.2393e+00
161	IHT000034	93.3518	95.5003	94.5823	4.6396e-01	4.2077e+00
162	IHT000035	123.7230	125.6761	124.7543	4.5684e-01	4.2856e+00
163	IHT000036	92.0185	94.1669	93.1552	4.5453e-01	4.2045e+00

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Velocity 1 = 3.9599 (ft/sec) (+/- 10.8870 %)
Velocity 2 = 3.9731 (ft/sec) (+/- 4.1941 %)
Pressure drop = -4.6475 (psi)
Tsats in = 267.9286 (deg F) Tsats out = 274.0724 (deg F)
Phi inner = 100.4214 (kBtu/hr-ft2) (+/- 1.4140 %)
Phi outer = 100.8049 (kBtu/hr-ft2) (+/- 1.5422 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	80.8549	81.7037	81.3982	1.8268e-01	1.9001e+00
1	TRF0000002	81.4160	81.8382	81.5891	1.3942e-01	1.9001e+00
2	TFM0000001	86.3823	87.3263	86.8625	2.0683e-01	1.9002e+00
3	TIN0000001	85.8368	86.2591	86.0713	1.2829e-01	1.9002e+00
4	TRV0000001	86.6892	87.7390	87.2293	2.0655e-01	1.9002e+00
5	TSR0000001	123.7246	126.6673	125.5169	6.7254e-01	1.9021e+00
6	TAO020136	68.8080	70.0902	69.4771	3.0814e-01	1.9000e+00
7	TAO050136	191.9786	192.9473	192.4501	2.5956e-01	1.9101e+00
8	TAO070136	192.8234	194.5772	193.5425	4.4173e-01	1.9103e+00
9	TAO080136	123.6847	124.7023	124.0864	2.3347e-01	1.9020e+00
10	TAO090136	231.8305	232.6823	232.2717	2.0778e-01	1.9177e+00
11	TAO100136	232.0964	233.5131	232.6547	3.0347e-01	1.9177e+00
12	TAO105136	239.3288	240.8363	240.2916	3.4584e-01	1.9194e+00
13	TAO110136	90.0302	90.7608	90.3786	1.6950e-01	1.9003e+00
14	TAO115136	240.1320	242.7644	241.6948	6.6387e-01	1.9198e+00
15	TAO120136	255.7528	256.9641	256.3921	2.7473e-01	1.9233e+00
16	TAO125136	147.7161	149.7137	148.5376	5.3404e-01	1.9042e+00
17	TAO130136	250.1840	251.4792	250.8398	4.0026e-01	1.9219e+00
18	TAO120048	97.7996	98.8406	98.3550	2.7617e-01	1.9005e+00
19	TAO130048	254.8994	256.1073	255.5562	1.8722e-01	1.9231e+00
20	TAO120224	253.0952	254.2153	253.7020	3.1595e-01	1.9226e+00
21	TAO130224	241.4981	243.2691	242.1546	4.2919e-01	1.9199e+00
22	TAO120312	251.8386	253.4271	252.5622	3.4900e-01	1.9223e+00
23	TAO130312	250.2750	251.1148	250.5915	1.9027e-01	1.9218e+00
24	TRT020000	181.2880	182.8564	182.0194	3.1449e-01	1.9084e+00
25	TRT070000	220.1709	221.4172	220.8635	2.8742e-01	1.9153e+00
26	TRT100000	244.2577	245.0998	244.6518	2.2880e-01	1.9204e+00
27	TRT120000	456.8070	457.2352	457.0111	9.7631e-02	1.9984e+00
28	TRT125000	93.2502	93.8775	93.5780	1.7993e-01	1.9004e+00
29	TRT130000	254.2312	255.0685	254.6834	1.9452e-01	1.9228e+00
30	EMPTY	39.3761	40.0646	39.7480	2.0153e-01	1.9011e+00
31	TAF050136	131.1992	132.7128	132.0006	3.2487e-01	1.9026e+00
32	TAF070136	149.5721	151.1627	150.2854	4.0758e-01	1.9043e+00
33	TAF080136	201.4573	234.3041	222.3503	7.1127e+00	1.9156e+00
34	TAF090136	88.6838	89.7318	89.1759	2.2545e-01	1.9002e+00
35	TAF100136	181.0237	182.2968	181.7354	2.5629e-01	1.9084e+00
36	TAF105136	185.9558	187.2135	186.6631	2.8417e-01	1.9091e+00
37	TAF110136	191.5543	193.1975	192.3333	4.0686e-01	1.9101e+00
38	TAF115136	198.0079	200.4160	199.0428	5.8784e-01	1.9112e+00
39	TAF120136	226.5776	230.2551	228.3957	1.0589e+00	1.9168e+00
40	TAF125136	208.5723	213.8923	209.9790	1.4004e+00	1.9132e+00
41	TAF130136	212.1282	214.6101	213.3868	7.5396e-01	1.9138e+00
42	TAF120048	206.9363	208.8689	207.7033	4.3973e-01	1.9127e+00
43	TAF130048	216.8864	220.0300	217.7656	5.1654e-01	1.9147e+00
44	TAF120224	200.4708	203.4551	201.9869	7.4156e-01	1.9117e+00
45	TAF130224	207.9309	210.3417	208.7815	4.9632e-01	1.9129e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0802	1.9576e-01	1.9010e+00
47	EMPTY	39.6057	40.5234	39.9224	1.9052e-01	1.9011e+00
48	TAI130048	255.1728	257.6862	256.5751	5.1066e-01	1.9233e+00
49	TAI130136	258.7382	259.9450	259.1746	2.5786e-01	1.9240e+00
50	TAI130224	257.9703	259.3683	258.7550	3.3108e-01	1.9239e+00
51	TAI130312	249.7393	251.5161	250.6953	3.3292e-01	1.9219e+00
52	TRR130000	101.0324	103.3093	102.2721	4.5557e-01	1.9007e+00
53	TSI000001	59.7224	60.4748	60.0352	1.6698e-01	1.9001e+00
54	TSI000002	88.0136	89.8977	88.8537	4.2490e-01	1.9002e+00
55	TSO000001	56.4592	57.3247	56.9503	2.0050e-01	1.9001e+00
56	TSO000002	73.0021	73.7475	73.4217	1.8408e-01	1.9000e+00
57	TAF020136	100.5493	102.3263	101.4708	3.7814e-01	1.9007e+00
58	TAF120312	202.2619	205.5387	203.9728	7.9494e-01	1.9121e+00
59	TAF130312	217.9114	220.0981	218.9668	4.4227e-01	1.9149e+00
60	EMPTY	3.5205	3.5449	3.5333	5.0194e-03	0.0000e+00
61	EMPTY	3.5156	3.5303	3.5196	3.6500e-03	0.0000e+00
62	EMPTY	3.5010	3.5107	3.5068	3.1195e-03	0.0000e+00
63	EMPTY	3.4961	3.5059	3.5018	2.0598e-03	0.0000e+00
64	EMPTY	1.6895	1.6943	1.6910	2.3008e-03	0.0000e+00
65	EMPTY	1.6992	1.7090	1.7060	2.5894e-03	0.0000e+00
66	EMPTY	1.7139	1.7188	1.7155	2.3365e-03	0.0000e+00
67	EMPTY	1.7236	1.7334	1.7284	1.2041e-03	0.0000e+00
68	EMPTY	1.7236	1.7383	1.7344	2.6100e-03	0.0000e+00
69	EMPTY	1.7432	1.7529	1.7477	1.6624e-03	0.0000e+00
70	EMPTY	1.7529	1.7578	1.7552	2.4583e-03	0.0000e+00
71	EMPTY	1.7676	1.7725	1.7719	1.6028e-03	0.0000e+00
72	EMPTY	1.7773	1.7822	1.7794	2.4344e-03	0.0000e+00
73	EMPTY	1.7920	1.7969	1.7926	1.6028e-03	0.0000e+00
74	EMPTY	1.7969	1.8066	1.8019	1.2041e-03	0.0000e+00
75	EMPTY	1.8115	1.8164	1.8127	2.1065e-03	0.0000e+00
76	EMPTY	1.8213	1.8213	1.8213	0.0000e+00	0.0000e+00
77	EMPTY	1.8311	1.8359	1.8351	1.8950e-03	0.0000e+00
78	EMPTY	1.8408	1.8555	1.8506	1.7086e-03	0.0000e+00
79	EMPTY	1.8652	1.8701	1.8687	2.2146e-03	0.0000e+00
80	PAN020136	-17.1572	-16.8520	-17.0016	6.8863e-02	8.7104e-01
81	PAN050136	-31.3900	-30.9322	-31.1947	1.4797e-01	1.6818e+00
82	PAN070136	-20.3056	-20.0767	-20.1591	6.1346e-02	8.7146e-01
83	PAN080136	-11.0566	-10.6752	-10.8583	9.5016e-02	8.7042e-01
84	PAN090136	-9.8183	-9.4369	-9.6017	9.1656e-02	8.7033e-01
85	PAN100136	-12.2670	-12.1145	-12.1709	4.8277e-02	8.7053e-01
86	PAN105136	-5.1080	1.4533	-3.8156	1.0785e+00	8.7005e-01
87	PAN110136	-7.2222	2.6198	-4.2604	1.7179e+00	8.7007e-01
88	PAN115136	-7.4834	-2.2954	-4.4118	9.8126e-01	8.7007e-01
89	PAN120136	-6.8245	0.2708	-5.0286	9.7828e-01	8.7009e-01
90	PAN125136	-6.0323	-1.8361	-5.0023	7.2235e-01	8.7009e-01
91	PAN130136	-8.0584	-3.8622	-4.8495	6.3635e-01	8.7008e-01
92	PAN120048	-12.1056	-8.8250	-10.3326	7.3625e-01	8.7038e-01
93	PAN130048	-10.3523	-8.8264	-9.6412	3.1793e-01	8.7033e-01
94	PAN120224	-12.3654	-2.9812	-8.8574	1.3266e+00	8.7028e-01
95	PAN130224	-13.9630	-9.3091	-10.2857	9.9392e-01	8.7038e-01
96	PAN120312	-13.7254	-4.3412	-9.9336	1.3549e+00	8.7035e-01
97	PAN130312	-14.4899	-9.2256	-9.9443	1.0027e+00	8.7036e-01
98	PAB000136	40.2739	40.5027	40.3773	5.5343e-02	5.8872e-01
99	PAB100136	43.8013	43.9844	43.8645	5.1400e-02	5.9028e-01
100	PAB125136	44.6200	44.8488	44.7234	5.1334e-02	5.9068e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9587	40.3249	40.1101	9.0815e-02	7.5667e-01
102	PRV000001	19.4744	19.7186	19.5745	5.3409e-02	7.5159e-01
103	PSR000001	44.6935	44.9376	44.8253	4.8327e-02	7.5833e-01
104	PFM000001	2.1902	2.4649	2.3239	7.6732e-02	5.0003e-01
105	PAN000136	-129.9605	-127.6717	-128.6696	5.5250e-01	4.9305e+00
106	PFM000002	2.2985	2.3992	2.3398	2.1762e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	0.0008	3.9901e-03	0.0000e+00
108	EMPTY	-10.0000	-0.3516	-6.3205	3.1572e+00	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	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	101.8292	102.6104	102.2627	1.7774e-01	1.0162e+00
113	VPW000002	119.0467	119.4374	119.3007	1.0625e-01	1.0810e+00
114	VPW000003	147.6225	148.0131	147.7827	1.2283e-01	1.2010e+00
115	VPW000004	104.8640	105.4500	105.1375	1.3087e-01	1.0267e+00
116	VPW000005	139.8475	140.2381	140.0077	1.2283e-01	1.1670e+00
117	VPW000006	148.2610	148.8469	148.5382	1.3141e-01	1.2043e+00
118	IPW000001	553.2642	561.0735	556.6221	1.6282e+00	9.2166e+00
119	IPW000002	1292.5659	1300.3710	1296.4684	1.5268e+00	1.3058e+01
120	IPW000003	1310.3999	1322.0999	1315.1189	2.9241e+00	1.3174e+01
121	IPW000004	377.7513	379.2161	378.4348	3.2718e-01	3.5969e+00
122	IPW000005	252.0969	254.0498	253.2198	4.3277e-01	2.8287e+00
123	IPW000006	260.2915	262.2446	261.5023	5.0532e-01	2.8754e+00
124	EMPTY	-0.0244	-0.0146	-0.0197	3.2658e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0143	3.0945e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0166	3.6911e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.0581e-03	0.0000e+00
128	IHT000001	128.1325	130.2809	129.0817	5.6773e-01	4.2984e+00
129	IHT000002	131.7908	133.5487	132.6542	4.8982e-01	4.3093e+00
130	IHT000003	132.1139	133.8717	132.8716	4.9543e-01	4.3099e+00
131	IHT000004	130.0143	132.3580	131.1001	5.0864e-01	4.3045e+00
132	IHT000005	128.2903	130.4387	129.4738	4.9033e-01	4.2996e+00
133	IHT000006	123.4112	125.7550	124.6104	5.0994e-01	4.2852e+00
134	IHT000007	130.4087	132.9477	131.6821	5.7891e-01	4.3063e+00
135	IHT000008	128.9889	131.3326	130.1919	5.3432e-01	4.3017e+00
136	IHT000009	129.1729	131.5167	130.5635	5.8877e-01	4.3029e+00
137	IHT000010	-40.4935	-38.3451	-39.8373	5.4784e-01	4.1193e+00
138	IHT000011	129.9166	132.0650	130.6353	5.4310e-01	4.3031e+00
139	IHT000012	127.5315	129.6800	128.3285	5.4225e-01	4.2961e+00
140	IHT000013	91.4063	93.5547	92.1836	5.4174e-01	4.2024e+00
141	IHT000014	127.3663	129.9054	128.3038	5.5243e-01	4.2961e+00
142	IHT000015	95.0120	97.5511	95.8245	5.2698e-01	4.2105e+00
143	IHT000016	88.7169	91.2560	89.6740	5.3851e-01	4.1969e+00
144	IHT000017	105.0706	107.8050	106.4613	6.2345e-01	4.2360e+00
145	IHT000018	107.3543	109.5027	108.1785	5.3712e-01	4.2403e+00
146	IHT000019	103.4781	105.8218	104.3882	5.0472e-01	4.2308e+00
147	IHT000020	106.3927	108.3458	107.1857	4.7254e-01	4.2378e+00
148	IHT000021	-2.6179	-0.0789	-1.4968	5.7563e-01	4.1000e+00
149	IHT000022	92.4692	94.2270	93.3130	4.5922e-01	4.2048e+00
150	IHT000023	104.3645	106.3176	105.1027	4.5727e-01	4.2326e+00
151	IHT000024	69.3773	71.5257	70.2718	4.4132e-01	4.1598e+00
152	IHT000025	104.5485	106.5017	105.4665	4.6059e-01	4.2335e+00
153	IHT000026	104.9354	107.2792	105.8573	5.2946e-01	4.2345e+00
154	IHT000027	89.7987	92.1424	90.8572	5.1462e-01	4.1995e+00
155	IHT000028	91.3349	94.0693	92.4443	6.2570e-01	4.2029e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6199	107.1590	105.7567	5.9541e-01	4.2342e+00
157	IHT000030	106.8172	109.5515	108.0672	5.6634e-01	4.2400e+00
158	IHT000031	105.4462	108.1806	106.4502	5.9583e-01	4.2359e+00
159	IHT000032	106.7420	109.2811	107.7420	5.7404e-01	4.2392e+00
160	IHT000033	106.7646	109.3036	107.7060	6.0707e-01	4.2391e+00
161	IHT000034	93.7425	95.8909	94.6331	4.9310e-01	4.2078e+00
162	IHT000035	123.9183	125.8714	124.7933	4.9006e-01	4.2857e+00
163	IHT000036	92.4091	94.1669	93.2490	4.9007e-01	4.2047e+00

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Velocity 1 = 0.048300 (ft/sec)

Velocity 2 = 0.028500 (ft/sec)

Pressure Drop = 0.013500 (psi)

Tsat in = 0.043274 (deg F) Tsat out = 0.069489 (deg F)

Phi inner = 0.494904 (kBtu/hr-ft2) Phi outer = 0.103798 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0594	0.0729
1	TRF000002	0.0169	0.0207
2	TFM000001	0.3480	0.4022
3	TIN000001	0.3202	0.3734
4	TRV000001	0.3678	0.4234
5	TSR000001	4.4580	3.6825
6	TAO020136	0.5466	0.7806
7	TAO050136	0.8869	0.4630
8	TAO070136	0.7405	0.3841
9	TAO080136	0.5107	0.4099
10	TAO090136	1.7318	0.7512
11	TAO100136	1.1660	0.5037
12	TAO105136	1.4168	0.5931
13	TAO110136	2.2931	2.6033
14	TAO115136	0.9436	0.3919
15	TAO120136	0.9426	0.3690
16	TAO125136	1.6186	1.1017
17	TAO130136	0.9163	0.3666
18	TAO120048	2.3738	2.4732
19	TAO130048	1.0168	0.3995
20	TAO120224	1.2042	0.4769
21	TAO130224	0.8516	0.3529
22	TAO120312	1.0573	0.4204
23	TAO130312	1.0548	0.4227
24	TRT020000	0.5841	0.3219
25	TRT070000	1.0935	0.4976
26	TRT100000	1.0135	0.4160
27	TRT120000	0.0309	0.0068
28	TRT125000	2.5686	2.8223
29	TRT130000	1.0968	0.4325
30	EMPTY	0.0550	0.1382
31	TAF050136	0.6460	0.4918
32	TAF070136	0.5206	0.3476
33	TAF080136	1.4801	0.6701
34	TAF090136	2.4865	2.8683
35	TAF100136	1.2225	0.6772
36	TAF105136	1.1670	0.6291
37	TAF110136	1.0250	0.5358
38	TAF115136	0.8479	0.4278
39	TAF120136	0.7800	0.3427
40	TAF125136	1.1937	0.5717
41	TAF130136	1.2444	0.5866
42	TAF120048	0.1821	0.0877
43	TAF130048	0.2555	0.1175
44	TAF120224	1.5870	0.7919
45	TAF130224	0.6330	0.3041

#	Name	Abs Diff	%Diff
46	EMPTY	0.0644	0.1688
47	EMPTY	0.0321	0.0805
48	TAI130048	1.3070	0.5120
49	TAI130136	1.0605	0.4109
50	TAI130224	1.1374	0.4415
51	TAI130312	1.0479	0.4198
52	TRR130000	2.3794	2.2736
53	TSI000001	0.1974	0.3277
54	TSI000002	0.2389	0.2681
55	TSO000001	0.0433	0.0760
56	TSO000002	0.2635	0.3602
57	TAF020136	0.3262	0.3225
58	TAF120312	0.3543	0.1740
59	TAF130312	0.8450	0.3874
60	EMPTY	0.0211	0.6008
61	EMPTY	0.0206	0.5887
62	EMPTY	0.0214	0.6140
63	EMPTY	0.0199	0.5715
64	EMPTY	0.0092	0.5470
65	EMPTY	0.0095	0.5600
66	EMPTY	0.0092	0.5392
67	EMPTY	0.0086	0.5001
68	EMPTY	0.0081	0.4692
69	EMPTY	0.0093	0.5350
70	EMPTY	0.0077	0.4406
71	EMPTY	0.0076	0.4308
72	EMPTY	0.0075	0.4233
73	EMPTY	0.0069	0.3864
74	EMPTY	0.0065	0.3620
75	EMPTY	0.0055	0.3043
76	EMPTY	0.0063	0.3471
77	EMPTY	0.0060	0.3280
78	EMPTY	0.0054	0.2927
79	EMPTY	0.0060	0.3221
80	PAN020136	0.0092	0.0541
81	PAN050136	0.0793	0.2549
82	PAN070136	0.0351	0.1744
83	PAN080136	0.1084	1.0084
84	PAN090136	0.1037	1.0685
85	PAN100136	0.0137	0.1127
86	PAN105136	0.2121	5.8859
87	PAN110136	0.2334	5.7959
88	PAN115136	0.0427	0.9586
89	PAN120136	0.1511	3.0979
90	PAN125136	0.0489	0.9681
91	PAN130136	0.0031	0.0640
92	PAN120048	0.0580	0.5645
93	PAN130048	0.1221	1.2506
94	PAN120224	0.8728	10.9310
95	PAN130224	0.2381	2.3697
96	PAN120312	0.4975	5.2723
97	PAN130312	0.0076	0.0765
98	PAB000136	0.0293	0.0726
99	PAB100136	0.0312	0.0712
100	PAB125136	0.0512	0.1146

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0171	0.0427
102	PRV000001	0.0708	0.3630
103	PSR000001	0.0488	0.1090
104	PFM000001	0.0586	2.4596
105	PAN000136	0.3753	0.2925
106	PFM000002	0.0346	1.4572
107	EMPTY	0.0014	63.6364
108	EMPTY	2.1159	50.3235
109	EMPTY	0.0001	16.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.1054	0.1032
113	VPW000002	0.0040	0.0034
114	VPW000003	0.0547	0.0370
115	VPW000004	0.0156	0.0148
116	VPW000005	0.0078	0.0056
117	VPW000006	0.0781	0.0526
118	IPW000001	3.2018	0.5719
119	IPW000002	5.0343	0.3898
120	IPW000003	5.9276	0.4528
121	IPW000004	1.1622	0.3062
122	IPW000005	0.5469	0.2164
123	IPW000006	1.2207	0.4690
124	EMPTY	0.0009	4.7872
125	EMPTY	0.0022	18.1818
126	EMPTY	0.0028	20.2899
127	EMPTY	0.0004	2.5157
128	IHT000001	0.0039	0.0030
129	IHT000002	0.0352	0.0265
130	IHT000003	0.0195	0.0147
131	IHT000004	0.0586	0.0447
132	IHT000005	0.0156	0.0120
133	IHT000006	0.0195	0.0157
134	IHT000007	0.0273	0.0207
135	IHT000008	0.0390	0.0300
136	IHT000009	0.0391	0.0300
137	IHT000010	0.0117	0.0294
138	IHT000011	0.0234	0.0179
139	IHT000012	0.0821	0.0640
140	IHT000013	0.0547	0.0594
141	IHT000014	0.0391	0.0305
142	IHT000015	0.0898	0.0938
143	IHT000016	0.1836	0.2052
144	IHT000017	0.6562	0.6126
145	IHT000018	0.0352	0.0325
146	IHT000019	0.1172	0.1121
147	IHT000020	0.1484	0.1383
148	IHT000021	0.1953	15.0058
149	IHT000022	0.0156	0.0167
150	IHT000023	0.1250	0.1188
151	IHT000024	0.1289	0.1831
152	IHT000025	0.1719	0.1627
153	IHT000026	0.2226	0.2098
154	IHT000027	0.0586	0.0645
155	IHT000028	0.0313	0.0339

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0625	0.0591
157	IHT000030	0.1250	0.1155
158	IHT000031	0.0664	0.0623
159	IHT000032	0.0782	0.0725
160	IHT000033	0.0860	0.0798
161	IHT000034	0.0508	0.0537
162	IHT000035	0.0390	0.0313
163	IHT000036	0.0938	0.1007

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sum1

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Velocity 1 = 3.5851 (ft/sec) (+/- 13.2954 %)
Velocity 2 = 3.5503 (ft/sec) (+/- 5.1246 %)
Pressure drop = -4.7620 (psi)
Tsats in = 267.9691 (deg F) Tsats out = 274.2396 (deg F)
Phi inner = 101.3778 (kBtu/hr-ft2) (+/- 1.4113 %)
Phi outer = 100.6743 (kBtu/hr-ft2) (+/- 1.5439 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	81.0672	81.7037	81.3473	1.9849e-01	1.9001e+00
1	TRF0000002	81.4160	81.8382	81.5596	1.4423e-01	1.9001e+00
2	TFM0000001	86.8003	87.5365	87.2041	1.6066e-01	1.9002e+00
3	TIN0000001	86.0481	86.5752	86.3640	1.4122e-01	1.9002e+00
4	TRV0000001	87.0040	88.0516	87.5991	2.1852e-01	1.9002e+00
5	TSR0000001	128.0853	130.0083	129.2338	5.5856e-01	1.9024e+00
6	TAO020136	68.8080	70.3038	69.6969	3.7714e-01	1.9000e+00
7	TAO050136	202.5494	203.7021	203.2330	2.9155e-01	1.9119e+00
8	TAO070136	205.7296	207.8531	206.7685	5.1024e-01	1.9126e+00
9	TAO080136	128.3388	129.6537	129.0234	2.4998e-01	1.9023e+00
10	TAO090136	248.2507	249.4657	248.7668	2.6647e-01	1.9214e+00
11	TAO100136	247.6827	250.2982	249.1929	6.2502e-01	1.9215e+00
12	TAO105136	255.4543	256.9475	256.2979	3.5801e-01	1.9232e+00
13	TAO110136	92.5187	93.2483	92.7938	1.9145e-01	1.9003e+00
14	TAO115136	257.0716	259.6766	258.2104	5.3656e-01	1.9237e+00
15	TAO120136	274.1008	274.8396	274.4959	1.8639e-01	1.9280e+00
16	TAO125136	158.8610	160.6466	159.8174	3.2954e-01	1.9054e+00
17	TAO130136	268.0420	269.0458	268.4863	2.3986e-01	1.9264e+00
18	TAO120048	101.7469	102.9927	102.3161	2.7107e-01	1.9007e+00
19	TAO130048	273.2713	273.9157	273.5767	1.3608e-01	1.9277e+00
20	TAO120224	270.6226	272.0078	271.1363	2.9026e-01	1.9271e+00
21	TAO130224	258.6203	260.1886	259.4314	3.5097e-01	1.9240e+00
22	TAO120312	269.8678	270.9773	270.4748	2.8585e-01	1.9269e+00
23	TAO130312	267.5174	268.4422	267.9097	2.1004e-01	1.9262e+00
24	TRT020000	190.3773	191.8376	191.0861	2.9580e-01	1.9099e+00
25	TRT070000	233.0676	234.3974	233.9039	2.8082e-01	1.9180e+00
26	TRT100000	260.3531	261.2816	260.7506	2.6236e-01	1.9244e+00
27	TRT120000	456.8074	457.1499	456.9786	1.0083e-01	1.9983e+00
28	TRT125000	96.0501	96.7784	96.3879	1.9662e-01	1.9005e+00
29	TRT130000	270.9743	272.8156	271.4534	2.7909e-01	1.9271e+00
30	EMPTY	39.3761	40.2940	39.8489	2.2433e-01	1.9011e+00
31	TAF050136	137.3466	138.9559	138.1027	3.7152e-01	1.9031e+00
32	TAF070136	157.9001	159.8759	158.9765	4.1400e-01	1.9053e+00
33	TAF080136	222.9294	247.1776	237.0289	5.0893e+00	1.9187e+00
34	TAF090136	90.5668	91.5095	91.0196	2.2522e-01	1.9003e+00
35	TAF100136	193.4115	197.0008	194.6971	7.6618e-01	1.9104e+00
36	TAF105136	198.8483	202.3874	200.5879	1.0667e+00	1.9115e+00
37	TAF110136	204.6513	209.4357	206.2331	1.2257e+00	1.9125e+00
38	TAF115136	211.9212	214.0211	212.6970	4.5261e-01	1.9137e+00
39	TAF120136	253.9831	256.7632	255.5300	5.8911e-01	1.9230e+00
40	TAF125136	223.7256	225.9828	224.7643	4.5115e-01	1.9161e+00
41	TAF130136	227.2362	229.2220	228.3376	4.1547e-01	1.9168e+00
42	TAF120048	221.9439	224.2398	223.3525	5.7232e-01	1.9158e+00
43	TAF130048	233.0127	234.9938	234.0727	3.9865e-01	1.9180e+00
44	TAF120224	213.7085	217.7160	215.6603	8.4961e-01	1.9142e+00
45	TAF130224	222.7240	224.8253	223.5953	4.4537e-01	1.9158e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1629	2.0267e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9958	1.4099e-01	1.9011e+00
48	TAI130048	273.3309	274.6208	273.9497	3.2610e-01	1.9278e+00
49	TAI130136	276.9983	278.1920	277.5932	2.8089e-01	1.9288e+00
50	TAI130224	276.4265	277.6263	277.0615	2.6733e-01	1.9287e+00
51	TAI130312	268.3531	269.7423	268.9646	3.0840e-01	1.9265e+00
52	TRR130000	94.1861	95.9548	94.8431	3.7974e-01	1.9004e+00
53	TSI000001	59.9384	60.7964	60.3114	2.0263e-01	1.9001e+00
54	TSI000002	90.0036	91.5716	90.8722	3.3686e-01	1.9003e+00
55	TSO000001	56.7835	57.7576	57.2946	2.3341e-01	1.9001e+00
56	TSO000002	74.7018	75.5523	75.1482	2.1140e-01	1.9000e+00
57	TAF020136	102.5347	104.9344	103.9542	4.9300e-01	1.9008e+00
58	TAF120312	216.4686	218.9515	217.6376	6.2519e-01	1.9146e+00
59	TAF130312	233.8242	237.0248	235.1049	7.3093e-01	1.9183e+00
60	EMPTY	3.9307	3.9697	3.9466	8.4751e-03	0.0000e+00
61	EMPTY	3.9209	3.9404	3.9287	6.1605e-03	0.0000e+00
62	EMPTY	3.9014	3.9209	3.9106	4.9570e-03	0.0000e+00
63	EMPTY	3.8965	3.9111	3.9021	4.1102e-03	0.0000e+00
64	EMPTY	1.8604	1.8799	1.8701	2.6100e-03	0.0000e+00
65	EMPTY	1.8799	1.8896	1.8847	2.3114e-03	0.0000e+00
66	EMPTY	1.8896	1.8945	1.8913	2.3365e-03	0.0000e+00
67	EMPTY	1.8994	1.9092	1.9039	1.9331e-03	0.0000e+00
68	EMPTY	1.9092	1.9141	1.9094	9.6655e-04	0.0000e+00
69	EMPTY	1.9189	1.9238	1.9195	1.6028e-03	0.0000e+00
70	EMPTY	1.9238	1.9287	1.9271	2.3008e-03	0.0000e+00
71	EMPTY	1.9385	1.9434	1.9426	1.8082e-03	0.0000e+00
72	EMPTY	1.9434	1.9482	1.9480	9.6655e-04	0.0000e+00
73	EMPTY	1.9580	1.9629	1.9603	2.4583e-03	0.0000e+00
74	EMPTY	1.9678	1.9727	1.9680	9.6655e-04	0.0000e+00
75	EMPTY	1.9775	1.9824	1.9789	2.2146e-03	0.0000e+00
76	EMPTY	1.9824	1.9873	1.9871	9.6655e-04	0.0000e+00
77	EMPTY	1.9922	2.0020	1.9976	1.7784e-03	0.0000e+00
78	EMPTY	2.0117	2.0166	2.0125	1.8082e-03	0.0000e+00
79	EMPTY	2.0264	2.0313	2.0302	2.0432e-03	0.0000e+00
80	PAN020136	-17.5387	-17.2335	-17.3983	8.0624e-02	8.7109e-01
81	PAN050136	-32.4581	-31.8478	-32.1102	1.6324e-01	1.6819e+00
82	PAN070136	-20.9923	-20.6108	-20.7558	8.4775e-02	8.7155e-01
83	PAN080136	-13.4217	-9.2256	-12.5230	7.9844e-01	8.7056e-01
84	PAN090136	-13.1753	-2.1127	-9.8458	2.2421e+00	8.7035e-01
85	PAN100136	-12.2670	-5.3243	-9.9385	1.2234e+00	8.7035e-01
86	PAN105136	-7.6257	2.0636	-4.6563	1.4879e+00	8.7008e-01
87	PAN110136	-7.2984	-3.1023	-4.9944	8.6344e-01	8.7009e-01
88	PAN115136	-7.4834	-3.3635	-4.9641	6.5892e-01	8.7009e-01
89	PAN120136	-6.5194	-3.2387	-4.6303	5.3318e-01	8.7008e-01
90	PAN125136	-5.3457	-2.8280	-4.7002	4.1992e-01	8.7008e-01
91	PAN130136	-5.5407	-4.5489	-5.0202	1.9385e-01	8.7010e-01
92	PAN120048	-12.0293	-7.9858	-9.9450	9.5446e-01	8.7036e-01
93	PAN130048	-10.1997	-9.4368	-9.8228	1.7398e-01	8.7035e-01
94	PAN120224	-10.4580	-6.9485	-8.9032	5.6820e-01	8.7028e-01
95	PAN130224	-10.4535	-9.6143	-10.1041	2.1083e-01	8.7037e-01
96	PAN120312	-10.4448	-8.2322	-9.6849	4.6214e-01	8.7034e-01
97	PAN130312	-10.3700	-9.2256	-9.7871	2.3160e-01	8.7034e-01
98	PAB000136	40.2739	40.5027	40.4048	5.1500e-02	5.8873e-01
99	PAB100136	43.6640	44.0759	43.9322	6.2731e-02	5.9031e-01
100	PAB125136	44.7573	44.9404	44.8470	5.2283e-02	5.9074e-01

Velocity 1 = 3.5919 (ft/sec) (+/- 13.2450 %)

Velocity 2 = 3.5538 (ft/sec) (+/- 5.1155 %)

Pressure drop = -4.7676 (psi)

Tsat in = 267.7172 (deg F) Tsat out = 274.0413 (deg F)

Phi inner = 101.3961 (kBtu/hr-ft2) (+/- 1.4113 %)

Phi outer = 100.4541 (kBtu/hr-ft2) (+/- 1.5449 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.0672	81.7037	81.3473	1.6845e-01	1.9001e+00
1	TRF000002	81.4160	82.0492	81.5427	1.3485e-01	1.9001e+00
2	TFM000001	87.1157	87.9551	87.4976	1.8696e-01	1.9002e+00
3	TIN000001	86.2587	86.9963	86.7136	1.4505e-01	1.9002e+00
4	TRV000001	87.5264	88.2620	87.9796	1.8384e-01	1.9002e+00
5	TSR000001	128.0853	132.1282	130.7093	1.0710e+00	1.9025e+00
6	TAO020136	69.0218	70.5165	69.7055	3.8350e-01	1.9000e+00
7	TAO050136	203.2207	204.4655	203.9945	3.0894e-01	1.9121e+00
8	TAO070136	207.4671	209.5887	208.5555	5.3213e-01	1.9129e+00
9	TAO080136	129.0468	129.9556	129.4917	2.2825e-01	1.9024e+00
10	TAO090136	249.1845	250.1192	249.6812	2.4419e-01	1.9216e+00
11	TAO100136	249.5518	251.5117	250.5515	5.2062e-01	1.9218e+00
12	TAO105136	256.5735	258.1585	257.3830	3.8793e-01	1.9235e+00
13	TAO110136	94.8983	95.6260	95.2235	1.7417e-01	1.9004e+00
14	TAO115136	258.4671	260.5131	259.4382	4.2271e-01	1.9240e+00
15	TAO120136	275.0224	275.7607	275.4689	1.8845e-01	1.9282e+00
16	TAO125136	159.1591	160.4486	159.8570	2.6578e-01	1.9054e+00
17	TAO130136	269.2274	270.1414	269.5934	2.3567e-01	1.9267e+00
18	TAO120048	104.0272	105.0633	104.6575	2.8676e-01	1.9008e+00
19	TAO130048	274.4637	275.2929	274.8432	1.7207e-01	1.9281e+00
20	TAO120224	271.7299	273.0218	272.3755	2.9226e-01	1.9274e+00
21	TAO130224	259.6313	261.1987	260.4985	3.6559e-01	1.9243e+00
22	TAO120312	270.9769	272.1783	271.7274	2.5295e-01	1.9272e+00
23	TAO130312	268.7168	269.8248	269.2333	2.0521e-01	1.9266e+00
24	TRT020000	190.9616	192.4213	191.7326	3.4559e-01	1.9100e+00
25	TRT070000	234.0184	235.6340	234.7405	2.9983e-01	1.9182e+00
26	TRT100000	261.3722	262.5752	261.9315	2.5175e-01	1.9247e+00
27	TRT120000	456.8074	457.2352	456.9718	9.4441e-02	1.9983e+00
28	TRT125000	98.8458	99.5714	99.2394	1.8951e-01	1.9006e+00
29	TRT130000	273.1818	273.7350	273.4070	1.2382e-01	1.9277e+00
30	EMPTY	39.3761	40.2940	39.8076	2.1570e-01	1.9011e+00
31	TAF050136	137.8488	139.7583	138.8300	4.2563e-01	1.9032e+00
32	TAF070136	158.8884	160.6678	159.9206	3.4017e-01	1.9054e+00
33	TAF080136	225.2874	247.1776	236.8156	5.1173e+00	1.9187e+00
34	TAF090136	92.0305	92.9729	92.5830	2.2855e-01	1.9003e+00
35	TAF100136	194.8683	198.0668	195.9619	8.5439e-01	1.9107e+00
36	TAF105136	199.9978	204.3985	201.8502	1.1722e+00	1.9117e+00
37	TAF110136	205.8001	208.9591	206.8730	7.9208e-01	1.9126e+00
38	TAF115136	212.9708	215.7381	213.8192	5.2384e-01	1.9139e+00
39	TAF120136	255.3748	257.5974	256.4971	4.5839e-01	1.9233e+00
40	TAF125136	225.0421	227.2068	225.8712	4.5435e-01	1.9163e+00
41	TAF130136	228.6547	230.6377	229.4786	4.0042e-01	1.9171e+00
42	TAF120048	223.5704	226.1505	224.6452	5.4349e-01	1.9160e+00
43	TAF130048	234.2384	236.2178	235.1548	4.2805e-01	1.9183e+00
44	TAF120224	215.3320	218.0970	216.3050	5.7412e-01	1.9144e+00
45	TAF130224	223.6783	225.4939	224.5390	3.8829e-01	1.9160e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1905	2.2924e-01	1.9010e+00
47	EMPTY	39.8352	40.5234	40.0004	1.6084e-01	1.9011e+00
48	TAI130048	273.6068	275.2652	274.4876	3.7876e-01	1.9280e+00
49	TAI130136	278.0988	279.3820	278.7923	2.1138e-01	1.9291e+00
50	TAI130224	277.6262	278.7317	278.1125	2.4775e-01	1.9290e+00
51	TAI130312	269.5565	270.8507	270.1338	2.4680e-01	1.9268e+00
52	TRR130000	88.2405	89.6010	88.8523	3.4930e-01	1.9002e+00
53	TSI000001	59.8304	60.5817	60.1699	2.0951e-01	1.9001e+00
54	TSI000002	88.8513	90.1073	89.4124	3.4490e-01	1.9003e+00
55	TSO000001	56.6758	57.8652	57.2384	2.0960e-01	1.9001e+00
56	TSO000002	75.0208	75.8700	75.3690	1.9423e-01	1.9000e+00
57	TAF020136	103.8923	105.2470	104.5301	3.5716e-01	1.9008e+00
58	TAF120312	217.3282	220.3811	218.8056	7.2311e-01	1.9149e+00
59	TAF130312	235.2366	237.8727	236.4529	5.5755e-01	1.9186e+00
60	EMPTY	3.9697	3.9893	3.9801	5.3706e-03	0.0000e+00
61	EMPTY	3.9551	3.9697	3.9625	3.7226e-03	0.0000e+00
62	EMPTY	3.9355	3.9502	3.9433	3.1335e-03	0.0000e+00
63	EMPTY	3.9258	3.9453	3.9353	3.6124e-03	0.0000e+00
64	EMPTY	1.8799	1.8848	1.8836	2.1065e-03	0.0000e+00
65	EMPTY	1.8945	1.9043	1.8979	2.6908e-03	0.0000e+00
66	EMPTY	1.9043	1.9141	1.9053	2.2058e-03	0.0000e+00
67	EMPTY	1.9141	1.9189	1.9164	2.4642e-03	0.0000e+00
68	EMPTY	1.9141	1.9238	1.9225	2.4244e-03	0.0000e+00
69	EMPTY	1.9287	1.9385	1.9322	2.4244e-03	0.0000e+00
70	EMPTY	1.9385	1.9434	1.9395	1.9730e-03	0.0000e+00
71	EMPTY	1.9531	1.9580	1.9541	1.9730e-03	0.0000e+00
72	EMPTY	1.9580	1.9629	1.9604	2.4662e-03	0.0000e+00
73	EMPTY	1.9678	1.9727	1.9723	1.3381e-03	0.0000e+00
74	EMPTY	1.9775	1.9873	1.9805	2.6100e-03	0.0000e+00
75	EMPTY	1.9873	1.9922	1.9909	2.1635e-03	0.0000e+00
76	EMPTY	1.9922	2.0020	1.9972	1.5566e-03	0.0000e+00
77	EMPTY	2.0068	2.0117	2.0098	2.4164e-03	0.0000e+00
78	EMPTY	2.0215	2.0264	2.0244	2.4164e-03	0.0000e+00
79	EMPTY	2.0410	2.0459	2.0411	6.9053e-04	0.0000e+00
80	PAN020136	-17.5387	-17.2335	-17.3968	8.3020e-02	8.7109e-01
81	PAN050136	-32.4581	-31.8478	-32.1163	1.3978e-01	1.6819e+00
82	PAN070136	-21.3737	-20.6108	-20.9007	1.9859e-01	8.7157e-01
83	PAN080136	-13.2691	-8.6915	-12.4604	1.0214e+00	8.7056e-01
84	PAN090136	-13.1753	-3.7911	-10.5035	1.5728e+00	8.7040e-01
85	PAN100136	-12.1908	-5.4769	-9.4854	1.1584e+00	8.7032e-01
86	PAN105136	-7.5494	2.2162	-4.3069	1.8993e+00	8.7007e-01
87	PAN110136	-7.2222	-3.6363	-4.9288	8.4035e-01	8.7009e-01
88	PAN115136	-6.9493	-3.8975	-4.9123	4.8037e-01	8.7009e-01
89	PAN120136	-5.6038	-3.0861	-4.6334	4.0136e-01	8.7008e-01
90	PAN125136	-5.3457	-4.0487	-4.7399	2.4969e-01	8.7008e-01
91	PAN130136	-5.6933	-4.7778	-5.1425	1.9996e-01	8.7010e-01
92	PAN120048	-11.3427	-7.6043	-10.2395	6.8208e-01	8.7038e-01
93	PAN130048	-10.0471	-8.9790	-9.7328	2.2157e-01	8.7034e-01
94	PAN120224	-9.8477	-7.9403	-8.9474	3.7313e-01	8.7029e-01
95	PAN130224	-10.5298	-9.2328	-10.0980	2.9189e-01	8.7037e-01
96	PAN120312	-10.0633	-8.4611	-9.5460	4.0262e-01	8.7033e-01
97	PAN130312	-10.2937	-9.3019	-9.7825	2.0112e-01	8.7034e-01
98	PAB000136	40.1365	40.3196	40.2345	4.4363e-02	5.8866e-01
99	PAB100136	43.6640	43.8928	43.7875	5.3328e-02	5.9024e-01
100	PAB125136	44.6200	44.8031	44.7005	4.7662e-02	5.9067e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2028	40.4470	40.3078	8.8954e-02	7.5674e-01
102	PRV000001	19.5965	19.8406	19.7332	4.7052e-02	7.5162e-01
103	PSR000001	44.9376	45.1818	45.0548	6.0207e-02	7.5841e-01
104	PFM000001	1.7324	2.0071	1.8954	6.4843e-02	5.0002e-01
105	PAN000136	-133.1649	-130.8760	-131.8373	4.5542e-01	4.9310e+00
106	PFM000002	1.8119	1.9126	1.8579	2.8927e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	0.0011	4.1019e-03	0.0000e+00
108	EMPTY	-10.0000	-0.2246	-6.8460	2.7527e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0012	2.3261e-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	102.0245	102.4151	102.1612	1.2001e-01	1.0158e+00
113	VPW000002	119.0467	119.4374	119.2967	1.0470e-01	1.0809e+00
114	VPW000003	147.6225	148.0131	147.8764	1.2001e-01	1.2014e+00
115	VPW000004	104.8640	105.4500	105.2000	1.3692e-01	1.0269e+00
116	VPW000005	139.6522	140.4334	140.0429	1.4764e-01	1.1671e+00
117	VPW000006	148.4563	148.8469	148.6749	9.3710e-02	1.2049e+00
118	IPW000001	533.7407	547.4072	539.5587	3.3582e+00	9.1531e+00
119	IPW000002	1304.2736	1315.9812	1308.9957	3.9439e+00	1.3136e+01
120	IPW000003	1324.0499	1331.8499	1328.7686	1.7658e+00	1.3259e+01
121	IPW000004	374.8216	380.1927	377.3216	1.8207e+00	3.5896e+00
122	IPW000005	252.5851	254.0498	253.3858	3.5235e-01	2.8297e+00
123	IPW000006	261.2681	262.7329	261.7952	3.3944e-01	2.8770e+00
124	EMPTY	-0.0244	-0.0098	-0.0184	3.7642e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0123	3.3073e-03	0.0000e+00
126	EMPTY	-0.0195	0.0000	-0.0151	4.0971e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0153	3.5582e-03	0.0000e+00
128	IHT000001	128.1325	130.4762	129.4020	5.0724e-01	4.2994e+00
129	IHT000002	131.2049	133.9393	133.0839	5.1128e-01	4.3106e+00
130	IHT000003	131.9186	134.2623	133.1529	5.0291e-01	4.3108e+00
131	IHT000004	130.0143	132.3580	131.3462	5.4489e-01	4.3053e+00
132	IHT000005	128.6809	130.6340	129.7160	4.8848e-01	4.3003e+00
133	IHT000006	123.8018	125.9503	124.7784	4.3405e-01	4.2857e+00
134	IHT000007	131.1899	132.9477	131.8110	4.6302e-01	4.3067e+00
135	IHT000008	129.7701	131.3326	130.3638	4.2674e-01	4.3023e+00
136	IHT000009	129.7589	131.5167	130.6924	4.3457e-01	4.3033e+00
137	IHT000010	-41.2748	-38.9310	-40.0209	5.0392e-01	4.1195e+00
138	IHT000011	129.5260	131.2838	130.5064	4.7921e-01	4.3027e+00
139	IHT000012	127.3362	129.0941	128.2464	4.7122e-01	4.2959e+00
140	IHT000013	91.0156	92.9688	92.0547	4.6428e-01	4.2021e+00
141	IHT000014	127.3663	129.1241	128.1280	4.5890e-01	4.2955e+00
142	IHT000015	94.8167	96.3792	95.6644	4.2974e-01	4.2101e+00
143	IHT000016	88.5216	90.0841	89.3263	4.1505e-01	4.1962e+00
144	IHT000017	105.0706	108.5863	107.0433	7.6945e-01	4.2374e+00
145	IHT000018	106.9636	109.3074	108.1434	5.3809e-01	4.2402e+00
146	IHT000019	103.4781	105.4312	104.4155	5.0686e-01	4.2309e+00
147	IHT000020	106.1974	108.3458	107.1935	5.2386e-01	4.2378e+00
148	IHT000021	-2.4226	-0.0789	-1.3757	6.2734e-01	4.1000e+00
149	IHT000022	92.4692	94.4223	93.2153	5.0175e-01	4.2046e+00
150	IHT000023	104.3645	106.1223	105.1730	4.8329e-01	4.2327e+00
151	IHT000024	69.5726	71.3304	70.2874	4.6624e-01	4.1598e+00
152	IHT000025	104.7439	106.5017	105.5251	4.8808e-01	4.2336e+00
153	IHT000026	105.1307	106.8885	105.9432	4.1453e-01	4.2347e+00
154	IHT000027	89.9940	91.9471	90.8455	4.0194e-01	4.1994e+00
155	IHT000028	91.1396	93.2880	92.2373	4.4273e-01	4.2025e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.4246	106.5730	105.7137	4.3045e-01	4.2341e+00
157	IHT000030	106.8172	109.1609	108.0711	4.8982e-01	4.2400e+00
158	IHT000031	105.2509	107.7900	106.4306	4.8961e-01	4.2359e+00
159	IHT000032	106.3514	109.0858	107.7342	5.3792e-01	4.2392e+00
160	IHT000033	106.1786	109.1083	107.6670	5.3654e-01	4.2390e+00
161	IHT000034	93.3518	95.8909	94.5589	4.6470e-01	4.2076e+00
162	IHT000035	123.5277	126.0667	124.6644	4.9864e-01	4.2853e+00
163	IHT000036	92.2138	94.9482	93.1904	4.5677e-01	4.2046e+00

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.0808	40.3249	40.2126	4.1561e-02	7.5671e-01
102	PRV0000001	19.7186	19.9627	19.7991	6.3406e-02	7.5163e-01
103	PSR0000001	44.8156	45.0597	44.8937	6.4121e-02	7.5835e-01
104	PFM0000001	1.7324	2.0071	1.9027	6.9232e-02	5.0002e-01
105	PAN000136	-133.1649	-130.8760	-131.9930	4.4507e-01	4.9311e+00
106	PFM0000002	1.8287	1.8958	1.8616	1.9755e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	-0.0019	3.9323e-03	0.0000e+00
108	EMPTY	-10.0000	-0.4980	-6.7120	2.4310e+00	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	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	102.0245	102.2198	102.1416	9.6655e-02	1.0157e+00
113	VPW0000002	119.2421	119.4374	119.3514	9.7935e-02	1.0812e+00
114	VPW0000003	147.6225	148.2084	147.8452	1.1844e-01	1.2012e+00
115	VPW0000004	104.6687	105.2546	105.0633	1.3945e-01	1.0264e+00
116	VPW0000005	139.8475	140.4334	140.0780	1.3491e-01	1.1673e+00
117	VPW0000006	148.2610	148.8469	148.6163	1.2901e-01	1.2047e+00
118	IPW0000001	535.6931	539.5978	537.7625	1.2726e+00	9.1465e+00
119	IPW0000002	1304.2736	1308.1761	1306.6154	1.3075e+00	1.3121e+01
120	IPW0000003	1327.9498	1331.8499	1329.5486	1.0190e+00	1.3264e+01
121	IPW0000004	374.8216	376.2864	375.5149	2.8058e-01	3.5778e+00
122	IPW0000005	252.5851	254.0498	253.4737	3.5138e-01	2.8302e+00
123	IPW0000006	260.7798	262.7329	261.6878	3.8219e-01	2.8764e+00
124	EMPTY	-0.0293	-0.0098	-0.0192	4.2327e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.8862e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0147	3.1950e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.9224e-03	0.0000e+00
128	IHT0000001	128.3278	130.8669	129.1989	4.5713e-01	4.2987e+00
129	IHT0000002	131.9862	133.7440	132.7870	4.0673e-01	4.3097e+00
130	IHT0000003	132.1139	134.2623	132.9693	4.1176e-01	4.3102e+00
131	IHT0000004	130.0143	132.1627	131.1783	4.2123e-01	4.3047e+00
132	IHT0000005	128.4856	130.6340	129.5753	4.4659e-01	4.2999e+00
133	IHT0000006	123.6065	125.5596	124.6416	4.4337e-01	4.2853e+00
134	IHT0000007	130.6040	132.7524	131.6626	4.8180e-01	4.3062e+00
135	IHT0000008	129.1842	130.9420	130.1021	4.2909e-01	4.3015e+00
136	IHT0000009	129.1729	131.5167	130.4072	4.8559e-01	4.3024e+00
137	IHT0000010	-40.8842	-38.3451	-39.8607	5.5039e-01	4.1193e+00
138	IHT0000011	129.5260	131.8697	130.6197	5.3670e-01	4.3030e+00
139	IHT0000012	126.9456	129.4847	128.3324	5.8161e-01	4.2962e+00
140	IHT0000013	90.6250	93.1641	92.0898	5.6669e-01	4.2021e+00
141	IHT0000014	126.7804	129.3194	128.3116	5.6547e-01	4.2961e+00
142	IHT0000015	94.4261	96.7698	95.7034	5.4706e-01	4.2102e+00
143	IHT0000016	88.3263	90.8654	89.4904	5.2934e-01	4.1965e+00
144	IHT0000017	106.4378	108.5863	107.6214	5.1055e-01	4.2389e+00
145	IHT0000018	107.5496	109.5027	108.3465	4.8942e-01	4.2407e+00
146	IHT0000019	103.2828	105.6265	104.6577	4.5841e-01	4.2315e+00
147	IHT0000020	106.0021	108.3458	107.3419	4.4645e-01	4.2382e+00
148	IHT0000021	-2.8132	-0.0789	-1.2429	5.0986e-01	4.1000e+00
149	IHT0000022	91.8833	94.2270	93.3364	4.5874e-01	4.2049e+00
150	IHT0000023	103.7786	106.5129	105.2707	4.5636e-01	4.2330e+00
151	IHT0000024	69.1820	71.7210	70.4632	4.1227e-01	4.1601e+00
152	IHT0000025	104.3532	106.8923	105.7087	4.4365e-01	4.2341e+00
153	IHT0000026	105.1307	107.0838	106.1424	4.2989e-01	4.2352e+00
154	IHT0000027	89.9940	91.7518	90.9276	3.9713e-01	4.1996e+00
155	IHT0000028	91.3349	93.6786	92.3584	4.9844e-01	4.2027e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6199	107.3543	105.8856	5.4994e-01	4.2345e+00
157	IHT000030	106.8172	109.3562	108.2000	5.4796e-01	4.2404e+00
158	IHT000031	105.2509	107.9853	106.5908	5.3672e-01	4.2363e+00
159	IHT000032	106.5467	109.4764	107.9100	5.8059e-01	4.2396e+00
160	IHT000033	106.5693	109.3036	107.8310	5.6663e-01	4.2394e+00
161	IHT000034	93.3518	95.6956	94.4495	4.9582e-01	4.2074e+00
162	IHT000035	123.7230	126.0667	124.6449	5.1756e-01	4.2853e+00
163	IHT000036	92.2138	94.3622	93.0341	4.7842e-01	4.2042e+00

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Velocity 1 = 0.006800 (ft/sec)

Velocity 2 = 0.003500 (ft/sec)

Pressure Drop = 0.005600 (psi)

Tsat in = 0.251892 (deg F) Tsat out = 0.198303 (deg F)

Phi inner = 0.018303 (kBtu/hr-ft2) Phi outer = 0.220200 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0000	0.0000
1	TRF000002	0.0169	0.0207
2	TFM000001	0.2935	0.3366
3	TIN000001	0.3496	0.4048
4	TRV000001	0.3805	0.4344
5	TSR000001	1.4755	1.1417
6	TAO020136	0.0086	0.0123
7	TAO050136	0.7615	0.3747
8	TAO070136	1.7870	0.8643
9	TAO080136	0.4683	0.3630
10	TAO090136	0.9144	0.3676
11	TAO100136	1.3586	0.5452
12	TAO105136	1.0851	0.4234
13	TAO110136	2.4297	2.6184
14	TAO115136	1.2278	0.4755
15	TAO120136	0.9730	0.3545
16	TAO125136	0.0396	0.0248
17	TAO130136	1.1071	0.4124
18	TAO120048	2.3414	2.2884
19	TAO130048	1.2665	0.4629
20	TAO120224	1.2392	0.4570
21	TAO130224	1.0671	0.4113
22	TAO120312	1.2526	0.4631
23	TAO130312	1.3236	0.4941
24	TRT020000	0.6465	0.3383
25	TRT070000	0.8366	0.3577
26	TRT100000	1.1809	0.4529
27	TRT120000	0.0068	0.0015
28	TRT125000	2.8515	2.9584
29	TRT130000	1.9536	0.7197
30	EMPTY	0.0413	0.1036
31	TAF050136	0.7273	0.5266
32	TAF070136	0.9441	0.5939
33	TAF080136	0.2133	0.0900
34	TAF090136	1.5634	1.7177
35	TAF100136	1.2648	0.6496
36	TAF105136	1.2623	0.6293
37	TAF110136	0.6399	0.3103
38	TAF115136	1.1222	0.5276
39	TAF120136	0.9671	0.3785
40	TAF125136	1.1069	0.4925
41	TAF130136	1.1410	0.4997
42	TAF120048	1.2927	0.5788
43	TAF130048	1.0821	0.4623
44	TAF120224	0.6447	0.2989
45	TAF130224	0.9437	0.4221

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dif

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#	Name	Abs Diff	%Diff
46	EMPTY	0.0276	0.0723
47	EMPTY	0.0046	0.0115
48	TAI130048	0.5379	0.1964
49	TAI130136	1.1991	0.4320
50	TAI130224	1.0510	0.3793
51	TAI130312	1.1692	0.4347
52	TRR130000	5.9908	6.3165
53	TSI000001	0.1415	0.2346
54	TSI000002	1.4598	1.6064
55	TSO000001	0.0562	0.0981
56	TSO000002	0.2208	0.2938
57	TAF020136	0.5759	0.5540
58	TAF120312	1.1680	0.5367
59	TAF130312	1.3480	0.5734
60	EMPTY	0.0335	0.8488
61	EMPTY	0.0338	0.8603
62	EMPTY	0.0327	0.8362
63	EMPTY	0.0332	0.8508
64	EMPTY	0.0135	0.7219
65	EMPTY	0.0132	0.7004
66	EMPTY	0.0140	0.7402
67	EMPTY	0.0125	0.6565
68	EMPTY	0.0131	0.6861
69	EMPTY	0.0127	0.6616
70	EMPTY	0.0124	0.6435
71	EMPTY	0.0115	0.5920
72	EMPTY	0.0124	0.6366
73	EMPTY	0.0120	0.6122
74	EMPTY	0.0125	0.6352
75	EMPTY	0.0120	0.6064
76	EMPTY	0.0101	0.5083
77	EMPTY	0.0122	0.6107
78	EMPTY	0.0119	0.5913
79	EMPTY	0.0109	0.5369
80	PAN020136	0.0015	0.0086
81	PAN050136	0.0061	0.0190
82	PAN070136	0.1449	0.6981
83	PAN080136	0.0626	0.4999
84	PAN090136	0.6577	6.6800
85	PAN100136	0.4531	4.5590
86	PAN105136	0.3494	7.5038
87	PAN110136	0.0656	1.3135
88	PAN115136	0.0518	1.0435
89	PAN120136	0.0031	0.0669
90	PAN125136	0.0397	0.8446
91	PAN130136	0.0595	1.1438
92	PAN120048	0.2945	2.9613
93	PAN130048	0.0900	0.9162
94	PAN120224	0.0442	0.4965
95	PAN130224	0.0061	0.0604
96	PAN120312	0.1389	1.4342
97	PAN130312	0.0046	0.0470
98	PAB000136	0.1703	0.4215
99	PAB100136	0.1447	0.3294
100	PAB125136	0.1465	0.3267

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0952	0.2362
102	PRV000001	0.0659	0.3340
103	PSR000001	0.1611	0.3576
104	PFM000001	0.0073	0.3851
105	PAN000136	0.1557	0.1181
106	PFM000002	0.0037	0.1992
107	EMPTY	0.0030	272.7273
108	EMPTY	0.1340	1.9574
109	EMPTY	0.0011	91.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0196	0.0192
113	VPW000002	0.0547	0.0459
114	VPW000003	0.0312	0.0211
115	VPW000004	0.1367	0.1299
116	VPW000005	0.0351	0.0251
117	VPW000006	0.0586	0.0394
118	IPW000001	1.7962	0.3329
119	IPW000002	2.3804	0.1818
120	IPW000003	0.7800	0.0587
121	IPW000004	1.8067	0.4788
122	IPW000005	0.0879	0.0347
123	IPW000006	0.1074	0.0410
124	EMPTY	0.0008	4.3478
125	EMPTY	0.0012	9.7561
126	EMPTY	0.0004	2.6490
127	EMPTY	0.0006	3.9216
128	IHT000001	0.2031	0.1569
129	IHT000002	0.2969	0.2231
130	IHT000003	0.1836	0.1379
131	IHT000004	0.1679	0.1278
132	IHT000005	0.1407	0.1085
133	IHT000006	0.1368	0.1096
134	IHT000007	0.1484	0.1126
135	IHT000008	0.2617	0.2007
136	IHT000009	0.2852	0.2182
137	IHT000010	0.1602	0.4003
138	IHT000011	0.1133	0.0868
139	IHT000012	0.0860	0.0671
140	IHT000013	0.0351	0.0381
141	IHT000014	0.1836	0.1433
142	IHT000015	0.0390	0.0408
143	IHT000016	0.1641	0.1837
144	IHT000017	0.5781	0.5401
145	IHT000018	0.2031	0.1878
146	IHT000019	0.2422	0.2320
147	IHT000020	0.1484	0.1384
148	IHT000021	0.1328	9.6533
149	IHT000022	0.1211	0.1299
150	IHT000023	0.0977	0.0929
151	IHT000024	0.1758	0.2501
152	IHT000025	0.1836	0.1740
153	IHT000026	0.1992	0.1880
154	IHT000027	0.0821	0.0904
155	IHT000028	0.1211	0.1313

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1719	0.1626
157	IHT000030	0.1289	0.1193
158	IHT000031	0.1602	0.1505
159	IHT000032	0.1758	0.1632
160	IHT000033	0.1640	0.1523
161	IHT000034	0.1094	0.1157
162	IHT000035	0.0195	0.0156
163	IHT000036	0.1563	0.1677

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sum1

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Velocity 1 = 3.4351 (ft/sec) (+/- 14.4968 %)

Velocity 2 = 3.4003 (ft/sec) (+/- 5.5514 %)

Pressure drop = -4.7821 (psi)

Tsat in = 267.5405 (deg F) Tsat out = 273.9271 (deg F)

Phi inner = 100.7238 (kBtu/hr-ft2) (+/- 1.4132 %)

Phi outer = 100.7546 (kBtu/hr-ft2) (+/- 1.5432 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	80.8549	81.7037	81.3430	2.0222e-01	1.9001e+00
1	TRF0000002	81.2049	81.8382	81.5385	1.4827e-01	1.9001e+00
2	TFM0000001	87.3253	88.0597	87.6947	1.9221e-01	1.9002e+00
3	TIN0000001	86.6792	87.3118	86.9494	1.5664e-01	1.9002e+00
4	TRV0000001	87.6320	88.6799	88.1049	2.2707e-01	1.9002e+00
5	TSR0000001	128.0837	131.7230	130.6973	8.7342e-01	1.9025e+00
6	TAO020136	68.0604	69.5562	68.8211	3.2502e-01	1.9000e+00
7	TAO050136	207.8052	209.2409	208.6476	3.4098e-01	1.9129e+00
8	TAO070136	211.3226	215.1685	212.8694	6.8832e-01	1.9137e+00
9	TAO080136	129.3508	130.9640	130.1897	3.7500e-01	1.9024e+00
10	TAO090136	254.7725	255.8905	255.4837	2.3396e-01	1.9230e+00
11	TAO100136	255.6062	257.9306	256.9456	5.3051e-01	1.9234e+00
12	TAO105136	262.7159	264.0166	263.3888	3.3800e-01	1.9250e+00
13	TAO110136	92.3089	93.1458	92.6984	1.6596e-01	1.9003e+00
14	TAO115136	264.2253	266.2644	264.9707	4.3117e-01	1.9254e+00
15	TAO120136	281.0017	281.9188	281.5633	2.0794e-01	1.9299e+00
16	TAO125136	157.5728	158.9626	158.1762	3.2942e-01	1.9052e+00
17	TAO130136	275.1341	276.1371	275.5692	2.0910e-01	1.9283e+00
18	TAO120048	104.3379	105.6850	105.0632	3.4051e-01	1.9008e+00
19	TAO130048	280.6928	281.4273	281.1404	1.5465e-01	1.9298e+00
20	TAO120224	278.2650	279.3678	278.7166	2.5308e-01	1.9291e+00
21	TAO130224	266.0600	267.4359	266.7369	3.1700e-01	1.9259e+00
22	TAO120312	276.8797	278.2612	277.5247	2.7346e-01	1.9288e+00
23	TAO130312	274.6057	275.3416	275.0176	1.8968e-01	1.9281e+00
24	TPT020060	194.8517	196.2109	195.4420	3.1124e-01	1.9106e+00
25	TRT070000	239.2387	240.6591	239.8375	2.8461e-01	1.9193e+00
26	TRT100000	268.1139	269.0378	268.4987	2.0808e-01	1.9264e+00
27	TRT120000	456.7216	457.2352	456.9683	1.0178e-01	1.9983e+00
28	TRT125000	94.4957	95.4327	94.8289	1.9504e-01	1.9004e+00
29	TRT130000	278.8738	279.6075	279.1963	1.6413e-01	1.9293e+00
30	EMPTY	39.1464	40.0646	39.7755	2.3097e-01	1.9011e+00
31	TAF050136	140.4578	142.1651	141.3989	3.9619e-01	1.9034e+00
32	TAF070136	163.8193	166.2792	165.0641	4.7127e-01	1.9061e+00
33	TAF080136	239.8199	248.7552	243.8012	2.5896e+00	1.9202e+00
34	TAF090136	91.6124	92.5552	92.0774	2.4651e-01	1.9003e+00
35	TAF100136	199.5179	203.3816	200.9755	8.1672e-01	1.9115e+00
36	TAF105136	205.3481	210.2054	206.5042	8.7319e-01	1.9125e+00
37	TAF110136	211.1554	212.5888	211.8583	4.0445e-01	1.9135e+00
38	TAF115136	218.0214	219.9245	218.8668	4.3095e-01	1.9149e+00
39	TAF120136	260.6508	262.9566	261.8635	5.0389e-01	1.9246e+00
40	TAF125136	230.6782	232.6510	231.5145	4.5685e-01	1.9175e+00
41	TAF130136	234.4997	236.1024	235.1905	3.3522e-01	1.9183e+00
42	TAF120048	229.9653	231.8684	230.8486	4.3928e-01	1.9174e+00
43	TAF130048	241.3885	243.2654	242.0988	3.9096e-01	1.9198e+00
44	TAF120224	220.6650	222.9460	221.7683	4.9252e-01	1.9155e+00
45	TAF130224	229.3058	230.8286	229.9798	3.5587e-01	1.9172e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1216	2.2854e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0509	1.3443e-01	1.9011e+00
48	TAI130048	277.3800	278.5760	278.0022	3.1220e-01	1.9289e+00
49	TAI130136	283.4082	284.5985	283.9575	2.8400e-01	1.9306e+00
50	TAI130224	282.8729	284.0683	283.5829	2.9245e-01	1.9305e+00
51	TAI130312	275.5589	276.7574	276.1673	3.0993e-01	1.9284e+00
52	TRR130000	79.5333	81.1156	80.3523	3.4185e-01	1.9001e+00
53	TSI000001	60.3658	61.1184	60.7611	1.6007e-01	1.9001e+00
54	TSI000002	86.0199	87.8046	86.9950	3.5542e-01	1.9002e+00
55	TSO000001	56.8924	57.9740	57.4289	2.1401e-01	1.9001e+00
56	TSO000002	75.6574	76.6121	76.1157	1.9588e-01	1.9000e+00
57	TAF020136	104.4138	106.2890	105.4015	4.5891e-01	1.9008e+00
58	TAF120312	222.7610	225.1383	224.1077	5.6673e-01	1.9159e+00
59	TAF130312	241.4392	243.5024	242.5159	4.8259e-01	1.9199e+00
60	EMPTY	4.1260	4.1504	4.1365	5.7825e-03	0.0000e+00
61	EMPTY	4.1113	4.1260	4.1168	4.1432e-03	0.0000e+00
62	EMPTY	4.0918	4.1064	4.0980	3.2777e-03	0.0000e+00
63	EMPTY	4.0820	4.0918	4.0889	2.6100e-03	0.0000e+00
64	EMPTY	1.9531	1.9629	1.9542	2.2689e-03	0.0000e+00
65	EMPTY	1.9629	1.9727	1.9678	9.8648e-04	0.0000e+00
66	EMPTY	1.9678	1.9775	1.9753	2.6488e-03	0.0000e+00
67	EMPTY	1.9824	1.9922	1.9870	1.5314e-03	0.0000e+00
68	EMPTY	1.9873	1.9971	1.9922	9.8648e-04	0.0000e+00
69	EMPTY	1.9971	2.0068	2.0020	9.8648e-04	0.0000e+00
70	EMPTY	2.0068	2.0117	2.0086	2.3675e-03	0.0000e+00
71	EMPTY	2.0215	2.0264	2.0239	2.4662e-03	0.0000e+00
72	EMPTY	2.0264	2.0313	2.0303	1.9730e-03	0.0000e+00
73	EMPTY	2.0361	2.0410	2.0409	6.9053e-04	0.0000e+00
74	EMPTY	2.0459	2.0508	2.0500	1.8082e-03	0.0000e+00
75	EMPTY	2.0557	2.0703	2.0602	2.1703e-03	0.0000e+00
76	EMPTY	2.0654	2.0654	2.0654	0.0000e+00	0.0000e+00
77	EMPTY	2.0654	2.0801	2.0763	2.6635e-03	0.0000e+00
78	EMPTY	2.0898	2.0947	2.0915	2.3365e-03	0.0000e+00
79	EMPTY	2.1045	2.1143	2.1086	2.0598e-03	0.0000e+00
80	PAN020136	-17.7676	-17.4624	-17.5799	6.7557e-02	8.7111e-01
81	PAN050136	-33.0685	-32.1529	-32.6809	2.3112e-01	1.6820e+00
82	PAN070136	-23.2048	-19.4664	-22.5197	8.7404e-01	8.7182e-01
83	PAN080136	-13.8032	-10.3700	-11.5449	9.0915e-01	8.7048e-01
84	PAN090136	-11.2679	-3.3334	-9.9114	1.1864e+00	8.7035e-01
85	PAN100136	-12.2670	-8.8338	-9.8943	7.9141e-01	8.7035e-01
86	PAN105136	-7.1679	-3.8110	-4.9356	6.8340e-01	8.7009e-01
87	PAN110136	-6.0777	-2.4156	-4.4496	6.5660e-01	8.7007e-01
88	PAN115136	-6.8730	-4.0501	-5.0771	4.6015e-01	8.7009e-01
89	PAN120136	-5.2224	-3.3150	-4.5861	3.5505e-01	8.7008e-01
90	PAN125136	-5.1168	-4.3538	-4.7613	1.9412e-01	8.7008e-01
91	PAN130136	-5.3881	-4.5489	-5.0265	2.0438e-01	8.7009e-01
92	PAN120048	-10.5798	-9.7405	-10.2639	2.1247e-01	8.7038e-01
93	PAN130048	-9.9708	-9.5894	-9.8137	8.6386e-02	8.7035e-01
94	PAN120224	-9.5425	-7.7115	-8.9886	3.5612e-01	8.7029e-01
95	PAN130224	-10.3772	-9.5380	-10.0171	1.8435e-01	8.7036e-01
96	PAN120312	-10.3685	-9.1478	-9.7825	2.8230e-01	8.7034e-01
97	PAN130312	-10.0648	-9.1493	-9.6544	2.0788e-01	8.7033e-01
98	PAB000136	40.0450	40.1823	40.1154	4.5505e-02	5.8861e-01
99	PAB100136	43.6182	43.8471	43.7070	4.8419e-02	5.9020e-01
100	PAB125136	44.5284	44.7115	44.6163	4.7913e-02	5.9063e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.8366	40.0808	39.9685	8.8371e-02	7.5663e-01
102	PRV0000001	19.7186	19.9627	19.8358	4.9077e-02	7.5164e-01
103	PSR0000001	44.6935	44.9376	44.7911	6.0409e-02	7.5831e-01
104	PFM0000001	1.5493	1.9155	1.7361	8.4681e-02	5.0002e-01
105	PAN000136	-133.6226	-130.8760	-132.3958	4.8445e-01	4.9311e+00
106	PFM0000002	1.6441	1.7616	1.7001	3.0057e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	0.0010	4.1853e-03	0.0000e+00
108	EMPTY	-10.0000	-0.2686	-7.0553	2.7751e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0007	2.7919e-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	102.0245	102.6104	102.3760	1.9730e-01	1.0166e+00
113	VPW0000002	119.0467	119.6327	119.3671	1.3532e-01	1.0812e+00
114	VPW0000003	147.8178	148.2084	147.8882	1.0259e-01	1.2014e+00
115	VPW0000004	105.0593	105.4500	105.2938	1.1838e-01	1.0272e+00
116	VPW0000005	139.6522	140.2381	139.9647	1.1161e-01	1.1668e+00
117	VPW0000006	148.4563	149.0422	148.7062	1.3111e-01	1.2051e+00
118	IPW0000001	543.5024	553.2642	548.8519	2.5807e+00	9.1875e+00
119	IPW0000002	1286.7122	1304.2736	1296.1172	5.5005e+00	1.3056e+01
120	IPW0000003	1312.3499	1322.0999	1318.1611	2.8813e+00	1.3193e+01
121	IPW0000004	382.1458	383.6106	382.8294	4.5206e-01	3.6258e+00
122	IPW0000005	252.5851	254.0498	253.4639	3.9455e-01	2.8301e+00
123	IPW0000006	260.7798	263.2212	261.9710	5.3270e-01	2.8780e+00
124	EMPTY	-0.0244	-0.0146	-0.0194	3.4863e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0128	3.2554e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0153	3.8219e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0146	3.1195e-03	0.0000e+00
128	IHT0000001	128.1325	130.2809	129.3199	4.4088e-01	4.2991e+00
129	IHT0000002	131.9862	134.1346	132.9901	4.4294e-01	4.3103e+00
130	IHT0000003	131.9186	134.2623	133.0708	4.4337e-01	4.3105e+00
131	IHT0000004	130.2096	132.3580	131.3228	4.5549e-01	4.3052e+00
132	IHT0000005	128.4856	130.6340	129.7355	4.8808e-01	4.3004e+00
133	IHT0000006	123.6065	125.9503	124.8252	4.6448e-01	4.2858e+00
134	IKT0000007	130.6040	132.9477	131.8540	4.7842e-01	4.3068e+00
135	IHT0000008	128.9889	131.5279	130.3755	4.8848e-01	4.3023e+00
136	IHT0000009	129.3682	131.9073	130.7236	5.2261e-01	4.3034e+00
137	IHT0000010	-41.2748	-38.7357	-40.0756	5.6910e-01	4.1195e+00
138	IHT0000011	129.1353	131.4791	130.4009	5.5277e-01	4.3024e+00
139	IHT0000012	126.7503	129.4847	128.1410	5.7945e-01	4.2956e+00
140	IHT0000013	90.6250	92.9688	92.0234	5.5011e-01	4.2020e+00
141	IHT0000014	126.9757	129.1241	127.9756	5.2740e-01	4.2951e+00
142	IHT0000015	94.6214	96.7698	95.7581	5.1250e-01	4.2103e+00
143	IHT0000016	88.3263	90.6701	89.5529	5.9456e-01	4.1967e+00
144	IHT0000017	105.0706	108.5863	106.9183	1.0039e+00	4.2371e+00
145	IHT0000018	106.7683	109.3074	108.1356	6.7080e-01	4.2402e+00
146	IHT0000019	103.4781	105.4312	104.4468	5.1894e-01	4.2309e+00
147	IHT0000020	106.1974	108.3458	107.1857	5.2706e-01	4.2378e+00
148	IHT0000021	-2.8132	-0.0789	-1.4070	5.8527e-01	4.1000e+00
149	IHT0000022	92.2739	94.4223	93.3052	5.2651e-01	4.2048e+00
150	IHT0000023	104.3645	106.3176	105.1262	4.2909e-01	4.2326e+00
151	IHT0000024	69.5726	71.5257	70.2718	4.1590e-01	4.1598e+00
152	IHT0000025	104.7439	106.6970	105.4860	4.3405e-01	4.2335e+00
153	IHT0000026	105.1307	106.8885	105.9237	4.3478e-01	4.2346e+00
154	IHT0000027	89.7987	92.1424	90.8494	4.8791e-01	4.1994e+00
155	IHT0000028	91.3349	94.6552	92.3232	7.1181e-01	4.2027e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8152	107.9402	105.7879	6.9080e-01	4.2343e+00
157	IHT000030	107.0125	109.7469	108.0321	6.9283e-01	4.2399e+00
158	IHT000031	105.2509	108.1806	106.3877	6.5160e-01	4.2358e+00
159	IHT000032	106.5467	109.6717	107.7420	6.6338e-01	4.2392e+00
160	IHT000033	106.5693	109.6943	107.7021	6.4477e-01	4.2391e+00
161	IHT000034	93.7425	95.8909	94.5589	5.2302e-01	4.2076e+00
162	IHT000035	123.7230	125.6761	124.4730	5.1503e-01	4.2848e+00
163	IHT000036	92.2138	94.3622	93.1396	4.5645e-01	4.2045e+00

Velocity 1 = 3.4051 (ft/sec) (+/- 14.7580 %)
 Velocity 2 = 3.3804 (ft/sec) (+/- 5.6129 %)
 Pressure drop = -4.7888 (psi)
 Tsat in = 267.8162 (deg F) Tsat out = 274.1765 (deg F)
 Phi inner = 101.2008 (kBtu/hr-ft2) (+/- 1.4118 %)
 Phi outer = 100.9425 (kBtu/hr-ft2) (+/- 1.5427 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.0672	81.7037	81.3855	1.9761e-01	1.9001e+00
1	TRF000002	81.4160	81.8382	81.6060	1.2969e-01	1.9001e+00
2	TFM000001	87.5350	88.4791	88.0721	2.0937e-01	1.9002e+00
3	TIN000001	86.8904	87.6271	87.2609	1.5230e-01	1.9002e+00
4	TRV000001	88.0500	88.7839	88.4898	1.9847e-01	1.9002e+00
5	TSR000001	131.4191	133.4405	132.4020	5.5240e-01	1.9026e+00
6	TAO020136	67.8464	70.5172	69.1543	7.0579e-01	1.9000e+00
7	TAO050136	208.9520	210.1938	209.5822	3.0734e-01	1.9131e+00
8	TAO070136	212.0922	216.7991	213.6265	1.0388e+00	1.9138e+00
9	TAO080136	128.8463	130.9640	129.7543	5.3411e-01	1.9024e+00
10	TAO090136	255.7026	256.6327	256.0898	2.3494e-01	1.9232e+00
11	TAO100136	257.0935	259.2298	258.1458	5.5397e-01	1.9237e+00
12	TAO105136	264.5736	265.8714	265.1560	3.0349e-01	1.9255e+00
13	TAO110136	94.4846	95.1107	94.8022	1.5871e-01	1.9004e+00
14	TAO115136	265.1527	266.7279	266.0456	4.1763e-01	1.9257e+00
15	TAO120136	282.0105	282.8373	282.5068	1.9374e-01	1.9302e+00
16	TAO125136	156.5804	158.4673	157.4940	5.4276e-01	1.9052e+00
17	TAO130136	276.0413	276.9550	276.4951	2.3934e-01	1.9285e+00
18	TAO120048	107.5433	108.6802	108.1267	2.9424e-01	1.9010e+00
19	TAO130048	282.1553	283.0714	282.5590	2.1411e-01	1.9302e+00
20	TAO120224	279.0910	280.2851	279.6423	2.8448e-01	1.9294e+00
21	TAO130224	266.9788	268.2634	267.6353	3.6258e-01	1.9261e+00
22	TAO120312	277.8922	278.9056	278.5075	2.3190e-01	1.9291e+00
23	TAO130312	275.4315	276.1669	275.7818	1.8104e-01	1.9283e+00
24	TRT020000	195.2397	196.8902	196.0593	3.9518e-01	1.9107e+00
25	TRT070000	239.8072	241.1326	240.6290	2.8960e-01	1.9195e+00
26	TRT100000	269.4047	270.4189	269.7739	2.3703e-01	1.9267e+00
27	TRT120000	456.8074	457.1499	457.0128	1.0084e-01	1.9984e+00
28	TRT125000	99.8453	99.7790	99.3059	2.1997e-01	1.9006e+00
29	TRT130000	279.8804	280.7987	280.3653	2.1060e-01	1.9296e+00
30	EMPTY	39.3761	40.2940	39.8076	2.3478e-01	1.9011e+00
31	TAF050136	141.3613	143.3683	142.0567	3.9751e-01	1.9035e+00
32	TAF070136	165.2967	167.6565	166.4918	5.1001e-01	1.9063e+00
33	TAF080136	237.5802	251.6321	244.1915	3.2130e+00	1.9203e+00
34	TAF090136	93.2845	94.5374	93.9318	2.8235e-01	1.9004e+00
35	TAF100136	200.4848	205.9843	202.1882	1.3808e+00	1.9117e+00
36	TAF105136	205.8284	209.0637	207.2899	6.1539e-01	1.9127e+00
37	TAF110136	212.1093	214.4937	212.9840	5.0736e-01	1.9137e+00
38	TAF115136	219.0683	221.3483	220.0152	4.5741e-01	1.9151e+00
39	TAF120136	262.0318	264.0648	262.7462	4.2222e-01	1.9249e+00
40	TAF125136	231.9007	233.9595	232.7447	4.5555e-01	1.9178e+00
41	TAF130136	234.7828	237.1357	236.3344	4.0791e-01	1.9185e+00
42	TAF120048	231.2031	232.6290	232.0398	3.4742e-01	1.9176e+00
43	TAF130048	242.7971	247.3861	244.4840	1.1789e+00	1.9204e+00
44	TAF120224	221.3311	223.9911	222.7335	5.2322e-01	1.9157e+00
45	TAF130224	229.9720	231.7789	230.9347	4.0826e-01	1.9174e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	2.0332e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	40.0188	1.3907e-01	1.9011e+00
48	TAI130048	278.0240	279.7702	278.6235	3.4757e-01	1.9291e+00
49	TAI130136	284.2305	285.3292	284.8787	2.3283e-01	1.9309e+00
50	TAI130224	283.7002	284.8032	284.2369	2.8351e-01	1.9307e+00
51	TAI130312	276.4800	277.6783	277.0077	2.5728e-01	1.9287e+00
52	TRR130000	73.9445	75.7413	74.8703	4.3234e-01	1.9000e+00
53	TSI000001	60.0447	61.0111	60.4615	1.9485e-01	1.9001e+00
54	TSI000002	86.5452	87.8051	87.2175	2.6479e-01	1.9002e+00
55	TSO000001	56.8918	57.7576	57.3075	2.0885e-01	1.9001e+00
56	TSO000002	75.8690	76.6127	76.1751	2.0311e-01	1.9000e+00
57	TAF020136	105.1424	106.8087	105.7264	3.2854e-01	1.9009e+00
58	TAF120312	223.6176	226.1830	225.1456	6.2638e-01	1.9161e+00
59	TAF130312	242.2834	244.9063	243.3670	4.7464e-01	1.9201e+00
60	EMPTY	4.1455	4.1699	4.1576	5.6874e-03	0.0000e+00
61	EMPTY	4.1309	4.1455	4.1379	3.9656e-03	0.0000e+00
62	EMPTY	4.1113	4.1260	4.1184	3.4400e-03	0.0000e+00
63	EMPTY	4.1064	4.1162	4.1093	2.6267e-03	0.0000e+00
64	EMPTY	1.9629	1.9727	1.9647	2.5894e-03	0.0000e+00
65	EMPTY	1.9727	1.9824	1.9780	2.0337e-03	0.0000e+00
66	EMPTY	1.9824	1.9873	1.9862	2.0432e-03	0.0000e+00
67	EMPTY	1.9922	2.0020	1.9970	1.5566e-03	0.0000e+00
68	EMPTY	1.9971	2.0068	2.0024	2.0337e-03	0.0000e+00
69	EMPTY	2.0117	2.0313	2.0132	3.3087e-03	0.0000e+00
70	EMPTY	2.0166	2.0264	2.0204	2.2689e-03	0.0000e+00
71	EMPTY	2.0313	2.0508	2.0354	3.0180e-03	0.0000e+00
72	EMPTY	2.0361	2.0459	2.0410	2.2058e-03	0.0000e+00
73	EMPTY	2.0459	2.0557	2.0525	2.5648e-03	0.0000e+00
74	EMPTY	2.0557	2.0654	2.0610	1.7784e-03	0.0000e+00
75	EMPTY	2.0654	2.0752	2.0711	2.0598e-03	0.0000e+00
76	EMPTY	2.0752	2.0801	2.0771	2.4164e-03	0.0000e+00
77	EMPTY	2.0850	2.0898	2.0896	1.1714e-03	0.0000e+00
78	EMPTY	2.0996	2.1094	2.1046	1.2041e-03	0.0000e+00
79	EMPTY	2.1143	2.1240	2.1195	1.6624e-03	0.0000e+00
80	PAN020136	-17.6913	-17.3861	-17.5875	7.3535e-02	8.7111e-01
81	PAN050136	-33.3736	-32.1529	-32.7755	3.1110e-01	1.6820e+00
82	PAN070136	-23.1285	-19.0849	-22.2496	1.1038e+00	8.7178e-01
83	PAN080136	-13.8795	-7.0130	-10.8583	1.2384e+00	8.7042e-01
84	PAN090136	-13.2516	-2.4178	-10.3646	1.6543e+00	8.7039e-01
85	PAN100136	-12.1145	-8.6049	-9.9843	7.4144e-01	8.7036e-01
86	PAN105136	-6.2524	-2.9718	-4.5862	7.3927e-01	8.7008e-01
87	PAN110136	-5.6963	-3.5600	-4.6816	5.0801e-01	8.7008e-01
88	PAN115136	-6.4152	-4.2027	-5.0435	3.9463e-01	8.7009e-01
89	PAN120136	-5.3750	-3.5439	-4.7280	3.6418e-01	8.7008e-01
90	PAN125136	-5.5745	-4.2013	-4.6941	2.3234e-01	8.7008e-01
91	PAN130136	-5.3118	-4.3200	-4.9944	2.3088e-01	8.7009e-01
92	PAN120048	-10.8849	-8.2909	-10.2273	4.6367e-01	8.7038e-01
93	PAN130048	-9.8183	-8.9790	-9.5451	1.8373e-01	8.7033e-01
94	PAN120224	-9.6188	-7.6352	-8.9322	4.6523e-01	8.7029e-01
95	PAN130224	-10.4535	-9.5380	-10.0095	1.8412e-01	8.7036e-01
96	PAN120312	-10.2159	-8.4611	-9.7276	3.3345e-01	8.7034e-01
97	PAN130312	-10.0648	-9.0730	-9.5643	2.0047e-01	8.7033e-01
98	PAB000136	40.2281	40.4112	40.3013	4.8055e-02	5.8869e-01
99	PAB100136	43.8013	44.0759	43.9002	5.6528e-02	5.9029e-01
100	PAB125136	44.7115	44.8946	44.8003	4.6619e-02	5.9071e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.9587	40.3249	40.1345	8.9465e-02	7.5668e-01
102	PRV0000001	19.5965	19.8406	19.7405	5.8828e-02	7.5162e-01
103	PSR0000001	44.9376	45.0597	44.9938	6.1457e-02	7.5839e-01
104	PFM0000001	1.5493	2.0071	1.7050	8.3234e-02	5.0002e-01
105	PAN000136	-133.6226	-131.3338	-132.5789	4.9838e-01	4.9312e+00
106	PFM0000002	1.6273	1.7280	1.6797	2.4124e-02	2.0004e-01
107	EMPTY	-0.0049	0.0049	0.0016	4.2361e-03	0.0000e+00
108	EMPTY	-10.0000	-1.9727	-7.8683	2.1729e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0006	1.8821e-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	102.0245	102.6104	102.3682	1.7451e-01	1.0165e+00
113	VPW0000002	119.2421	119.6327	119.4491	1.2104e-01	1.0816e+00
114	VPW0000003	147.6225	148.0131	147.9077	1.0595e-01	1.2015e+00
115	VPW0000004	104.8640	105.4500	105.1688	1.4314e-01	1.0268e+00
116	VPW0000005	139.8475	140.2381	140.0429	1.3087e-01	1.1671e+00
117	VPW0000006	148.2610	148.6516	148.5148	1.2633e-01	1.2042e+00
118	IPW0000001	537.6454	549.3595	544.2834	2.9252e+00	9.1705e+00
119	IPW0000002	1292.5659	1319.8837	1308.0981	8.6814e+00	1.3130e+01
120	IPW0000003	1322.0999	1331.8499	1325.6880	3.1110e+00	1.3240e+01
121	IPW0000004	377.7513	379.7044	378.4251	4.1725e-01	3.5969e+00
122	IPW0000005	252.0969	253.5616	253.1807	4.1015e-01	2.8285e+00
123	IPW0000006	261.2681	263.2212	262.0980	4.9570e-01	2.8788e+00
124	EMPTY	-0.0244	-0.0098	-0.0189	3.9013e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0133	3.1257e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0137	3.6911e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	3.8913e-03	0.0000e+00
128	IHT0000001	127.7419	130.6716	128.9410	6.0619e-01	4.2980e+00
129	IHT0000002	131.5955	133.9393	132.5370	5.0638e-01	4.3089e+00
130	IHT0000003	131.7233	134.0670	132.7935	5.1181e-01	4.3097e+00
131	IHT0000004	129.8190	132.1627	131.0415	5.0810e-01	4.3043e+00
132	IHT0000005	128.2903	130.8293	129.4347	5.0994e-01	4.2995e+00
133	IHT0000006	123.2159	126.1456	124.5010	5.5396e-01	4.2849e+00
134	IHT0000007	130.4087	133.3384	131.5415	5.8261e-01	4.3058e+00
135	IHT0000008	129.1842	131.7233	130.0552	5.3845e-01	4.3013e+00
136	IHT0000009	129.3682	131.9073	130.3994	5.5948e-01	4.3024e+00
137	IHT0000010	-41.0795	-38.5404	-39.8959	5.2853e-01	4.1194e+00
138	IHT0000011	129.5260	131.6744	130.4517	5.0349e-01	4.3025e+00
139	IHT0000012	127.1409	129.2894	128.1761	5.4283e-01	4.2957e+00
140	IHT0000013	91.2109	93.3594	92.1484	5.2940e-01	4.2023e+00
141	IHT0000014	127.3663	129.3194	128.2022	5.1455e-01	4.2958e+00
142	IHT0000015	94.8167	96.5745	95.7308	4.8398e-01	4.2103e+00
143	IHT0000016	88.7169	90.4747	89.5646	4.7941e-01	4.1967e+00
144	IHT0000017	105.4613	108.7816	107.0980	8.7958e-01	4.2376e+00
145	IHT0000018	107.3543	109.6980	108.2723	6.0135e-01	4.2406e+00
146	IHT0000019	103.2828	105.8218	104.6538	5.5312e-01	4.2315e+00
147	IHT0000020	106.0021	108.9318	107.3302	5.4391e-01	4.2382e+00
148	IHT0000021	-2.4226	0.3118	-1.2937	6.3047e-01	4.1000e+00
149	IHT0000022	92.4692	94.8130	93.3716	5.0361e-01	4.2050e+00
150	IHT0000023	104.1692	106.9036	105.2512	5.0410e-01	4.2329e+00
151	IHT0000024	69.3773	72.1116	70.3890	4.8759e-01	4.1600e+00
152	IHT0000025	104.5485	107.4782	105.6305	5.1024e-01	4.2339e+00
153	IHT0000026	105.1307	107.4745	106.0917	4.8942e-01	4.2350e+00
154	IHT0000027	89.7987	92.7284	90.9705	5.2793e-01	4.1997e+00
155	IHT0000028	91.1396	93.8739	92.4443	6.9187e-01	4.2029e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8152	107.3543	105.8699	6.7543e-01	4.2345e+00
157	IHT000030	107.0125	109.5515	108.1844	6.8912e-01	4.2403e+00
158	IHT000031	105.4462	108.1806	106.5166	6.7340e-01	4.2361e+00
159	IHT000032	106.7420	109.4764	107.8280	7.3203e-01	4.2394e+00
160	IHT000033	106.7646	109.4990	107.7881	6.9984e-01	4.2393e+00
161	IHT000034	93.5472	95.6956	94.4808	5.6537e-01	4.2075e+00
162	IHT000035	123.5277	125.8714	124.6097	5.5833e-01	4.2852e+00
163	IHT000036	92.0185	94.1669	93.1084	5.2362e-01	4.2044e+00

Velocity 1 = 0.030000 (ft/sec)
 Velocity 2 = 0.019900 (ft/sec)
 Pressure Drop = 0.006700 (psi)
 Tsat in = 0.275696 (deg F) Tsat out = 0.249420 (deg F)
 Phi inner = 0.476997 (kBtu/hr-ft2) Phi outer = 0.187897 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0425	0.0522
1	TRF000002	0.0675	0.0828
2	TFM000001	0.3774	0.4304
3	TIN000001	0.3115	0.3583
4	TRV000001	0.3849	0.4369
5	TSR000001	1.7047	1.3043
6	TAO020136	0.3332	0.4842
7	TAO050136	0.9346	0.4479
8	TAO070136	0.7571	0.3557
9	TAO080136	0.4354	0.3344
10	TAO090136	0.6061	0.2372
11	TAO100136	1.2002	0.4671
12	TAO105136	1.7672	0.6710
13	TAO110136	2.1038	2.2695
14	TAO115136	1.0749	0.4057
15	TAO120136	0.9435	0.3351
16	TAO125136	0.6822	0.4313
17	TAO130136	0.9259	0.3360
18	TAO120048	3.0635	2.9159
19	TAO130048	1.4186	0.5046
20	TAO120224	0.9257	0.3321
21	TAO130224	0.8984	0.3368
22	TAO120312	0.9828	0.3541
23	TAO130312	0.7642	0.2779
24	TRT020000	0.6173	0.3158
25	TRT070000	0.7915	0.3300
26	TRT100000	1.2752	0.4749
27	TRT120000	0.0445	0.0097
28	TRT125000	4.4770	4.7211
29	TRT130000	1.1690	0.4187
30	EMPTY	0.0321	0.0807
31	TAF050136	0.6578	0.4652
32	TAF070136	1.4277	0.8649
33	TAF080136	0.3903	0.1601
34	TAF090136	1.8544	2.0140
35	TAF100136	1.2127	0.6034
36	TAF105136	0.7857	0.3805
37	TAF110136	1.1257	0.5313
38	TAF115136	1.1484	0.5247
39	TAF120136	0.8827	0.3371
40	TAF125136	1.2302	0.5314
41	TAF130136	1.1439	0.4864
42	TAF120048	1.1912	0.5160
43	TAF130048	2.3852	0.9852
44	TAF120224	0.9652	0.4352
45	TAF130224	0.9549	0.4152

#	Name	Abs Diff	%Diff
46	EMPTY	0.0230	0.0603
47	EMPTY	0.0321	0.0801
48	TAI130048	0.6213	0.2235
49	TAI130136	0.9212	0.3244
50	TAI130224	0.6540	0.2306
51	TAI130312	0.8404	0.3043
52	TRR130000	5.4820	6.8225
53	TSI000001	0.2996	0.4931
54	TSI000002	0.2225	0.2558
55	TSO000001	0.1214	0.2114
56	TSO000002	0.0594	0.0780
57	TAF020136	0.3249	0.3083
58	TAF120312	1.0379	0.4631
59	TAF130312	0.8511	0.3509
60	EMPTY	0.0211	0.5101
61	EMPTY	0.0211	0.5125
62	EMPTY	0.0204	0.4978
63	EMPTY	0.0204	0.4989
64	EMPTY	0.0105	0.5373
65	EMPTY	0.0102	0.5183
66	EMPTY	0.0109	0.5518
67	EMPTY	0.0100	0.5033
68	EMPTY	0.0102	0.5120
69	EMPTY	0.0112	0.5594
70	EMPTY	0.0118	0.5875
71	EMPTY	0.0115	0.5682
72	EMPTY	0.0107	0.5270
73	EMPTY	0.0116	0.5684
74	EMPTY	0.0110	0.5366
75	EMPTY	0.0109	0.5291
76	EMPTY	0.0117	0.5665
77	EMPTY	0.0133	0.6406
78	EMPTY	0.0131	0.6263
79	EMPTY	0.0109	0.5169
80	PAN020136	0.0076	0.0432
81	PAN050136	0.0946	0.2895
82	PAN070136	0.2701	1.1994
83	PAN080136	0.6866	5.9472
84	PAN090136	0.4532	4.5725
85	PAN100136	0.0900	0.9096
86	PAN105136	0.3494	7.0792
87	PAN110136	0.2320	5.2139
88	PAN115136	0.0336	0.6618
89	PAN120136	0.1419	3.0941
90	PAN125136	0.0672	1.4114
91	PAN130136	0.0321	0.6386
92	PAN120048	0.0366	0.3566
93	PAN130048	0.2686	2.7370
94	PAN120224	0.0564	0.6275
95	PAN130224	0.0076	0.0759
96	PAN120312	0.0549	0.5612
97	PAN130312	0.0901	0.9333
98	PAB000136	0.1859	0.4634
99	PAB100136	0.1932	0.4420
100	PAB125136	0.1840	0.4124

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1660	0.4153
102	PRV000001	0.0953	0.4804
103	PSR000001	0.2027	0.4525
104	PFM000001	0.0311	1.7914
105	PAN000136	0.1831	0.1383
106	PFM000002	0.0204	1.1999
107	EMPTY	0.0006	60.0000
108	EMPTY	0.8130	11.5232
109	EMPTY	0.0001	14.2857
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0078	0.0076
113	VPW000002	0.0820	0.0687
114	VPW000003	0.0195	0.0132
115	VPW000004	0.1250	0.1187
116	VPW000005	0.0782	0.0559
117	VPW000006	0.1914	0.1287
118	IPW000001	4.5685	0.8324
119	IPW000002	11.9810	0.9244
120	IPW000003	7.5269	0.5710
121	IPW000004	4.4043	1.1505
122	IPW000005	0.2832	0.1117
123	IPW000006	0.1270	0.0485
124	EMPTY	0.0005	2.5773
125	EMPTY	0.0005	3.9063
126	EMPTY	0.0016	10.4575
127	EMPTY	0.0012	8.2192
128	IHT000001	0.3789	0.2930
129	IHT000002	0.4531	0.3407
130	IHT000003	0.2773	0.2084
131	IHT000004	0.2813	0.2142
132	IHT000005	0.3008	0.2319
133	IHT000006	0.3242	0.2597
134	IHT000007	0.3125	0.2370
135	IHT000008	0.3203	0.2457
136	IHT000009	0.3242	0.2480
137	IHT000010	0.1797	0.4484
138	IHT000011	0.0508	0.0390
139	IHT000012	0.0351	0.0274
140	IHT000013	0.1250	0.1358
141	IHT000014	0.2266	0.1771
142	IHT000015	0.0273	0.0285
143	IHT000016	0.0117	0.0131
144	IHT000017	0.1797	0.1681
145	IHT000018	0.1367	0.1264
146	IHT000019	0.2070	0.1982
147	IHT000020	0.1445	0.1348
148	IHT000021	0.1133	8.0526
149	IHT000022	0.0664	0.0712
150	IHT000023	0.1250	0.1189
151	IHT000024	0.1172	0.1668
152	IHT000025	0.1445	0.1370
153	IHT000026	0.1680	0.1586
154	IHT000027	0.1211	0.1333
155	IHT000028	0.1211	0.1312

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0820	0.0775
157	IHT000030	0.1523	0.1410
158	IHT000031	0.1289	0.1212
159	IHT000032	0.0860	0.0798
160	IHT000033	0.0860	0.0798
161	IHT000034	0.0781	0.0826
162	IHT000035	0.1367	0.1098
163	IHT000036	0.0312	0.0335

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Velocity 1 = 26.0223 (ft/sec) (+/- 1.6887 %)
 Velocity 2 = 13.4146 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 19.7212 (psi)
 Tsat in = 268.0894 (deg F) Tsat out = 230.8713 (deg F)
 Phi inner = 101.4079 (kBtu/hr-ft2) (+/- 1.4109 %)
 Phi outer = 101.0419 (kBtu/hr-ft2) (+/- 1.5417 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.4916	82.1279	81.8564	1.8698e-01	1.9001e+00
1	TRF000002	81.8382	82.2602	82.0702	1.4297e-01	1.9001e+00
2	TFM000001	86.3842	87.2242	86.8856	1.8892e-01	1.9002e+00
3	TIN000001	85.6270	86.4700	86.0927	1.8324e-01	1.9002e+00
4	TRV000001	86.1700	87.4289	86.7138	2.7904e-01	1.9002e+00
5	TSR000001	102.2185	105.1094	103.8480	7.5105e-01	1.9008e+00
6	TAO020136	63.1320	64.8491	64.1819	3.7868e-01	1.9000e+00
7	TAO050136	105.6240	106.7596	106.2621	2.4799e-01	1.9009e+00
8	TAO070136	104.7933	105.8329	105.2654	2.4597e-01	1.9008e+00
9	TAO080136	91.8795	93.6463	92.6784	4.7366e-01	1.9003e+00
10	TAO090136	114.8453	115.6677	115.2426	2.1955e-01	1.9014e+00
11	TAO100136	111.7767	112.4988	112.1339	1.9217e-01	1.9012e+00
12	TAO105136	114.0115	114.8354	114.4419	2.1187e-01	1.9013e+00
13	TAO110136	85.7703	86.6084	86.1969	1.7012e-01	1.9002e+00
14	TAO115136	112.6638	113.6939	113.1643	2.6316e-01	1.9013e+00
15	TAO120136	118.7255	119.4441	119.1096	1.7928e-01	1.9016e+00
16	TAO125136	79.6145	80.6674	80.1423	2.5074e-01	1.9001e+00
17	TAO130136	115.4833	115.9984	115.7455	1.4527e-01	1.9014e+00
18	TAO120048	90.5988	91.8557	91.2293	3.1536e-01	1.9003e+00
19	TAO130048	117.1829	117.6973	117.4690	1.5417e-01	1.9015e+00
20	TAO120224	117.5974	118.5198	118.0704	1.9544e-01	1.9016e+00
21	TAO130224	112.6880	114.0134	113.2169	2.3535e-01	1.9013e+00
22	TAO120312	115.7908	116.7165	116.3730	1.8059e-01	1.9014e+00
23	TAO130312	117.0527	117.8734	117.4697	1.8339e-01	1.9015e+00
24	TRT020000	106.2180	107.1514	106.6514	2.1739e-01	1.9009e+00
25	TRT070000	95.8433	96.7863	96.3567	2.3032e-01	1.9005e+00
26	TRT100000	117.1323	118.4639	117.9170	2.4083e-01	1.9015e+00
27	TRT120000	457.1495	457.5772	457.3907	1.0611e-01	1.9985e+00
28	TRT125000	85.9642	86.8035	86.3941	2.1207e-01	1.9002e+00
29	TRT130000	118.9335	119.6513	119.3907	1.7221e-01	1.9016e+00
30	EMPTY	39.3761	40.2940	39.8352	2.2714e-01	1.9011e+00
31	TAF050136	92.8513	93.6869	93.3584	1.9555e-01	1.9004e+00
32	TAF070136	96.6954	97.6324	97.0608	1.9959e-01	1.9005e+00
33	TAF080136	111.4516	112.1727	111.8166	1.9622e-01	1.9012e+00
34	TAF090136	84.4871	85.6445	85.0362	2.7309e-01	1.9002e+00
35	TAF100136	100.3025	101.1360	100.7923	2.0211e-01	1.9006e+00
36	TAF105136	101.1386	102.1731	101.7330	2.4733e-01	1.9007e+00
37	TAF110136	101.9282	102.7579	102.4038	1.6255e-01	1.9007e+00
38	TAF115136	103.3593	104.2911	103.8462	2.2746e-01	1.9008e+00
39	TAF120136	108.4814	108.9994	108.7366	1.4643e-01	1.9010e+00
40	TAF125136	104.4070	105.6441	105.0081	2.9366e-01	1.9008e+00
41	TAF130136	105.3475	106.0731	105.6487	1.5978e-01	1.9009e+00
42	TAF120048	104.6807	105.6167	105.1529	2.2372e-01	1.9008e+00
43	TAF130048	106.0743	106.7998	106.4785	1.6513e-01	1.9009e+00
44	TAF120224	103.0962	104.2372	103.6753	2.3335e-01	1.9008e+00
45	TAF130224	103.9784	104.7064	104.3549	1.7444e-01	1.9008e+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	39.6057	39.3990	1.2490e-01	1.9010e+00
48	TAI130048	113.1601	114.2925	113.7348	3.0968e-01	1.9013e+00
49	TAI130136	116.6382	117.7662	117.1902	2.2952e-01	1.9015e+00
50	TAI130224	118.5920	119.9264	119.2143	2.8158e-01	1.9016e+00
51	TAI130312	114.1401	115.0671	114.5914	1.9387e-01	1.9013e+00
52	TRR130000	79.6444	81.7491	80.8585	5.3074e-01	1.9001e+00
53	TSI000001	58.6530	59.4066	58.9957	1.6504e-01	1.9001e+00
54	TSI000002	90.2132	91.4694	90.9060	3.1836e-01	1.9003e+00
55	TSO000001	57.1077	57.8646	57.5508	1.9323e-01	1.9001e+00
56	TSO000002	62.7549	63.7209	63.3967	2.1507e-01	1.9000e+00
57	TAF020136	87.7201	88.6692	88.1228	2.0186e-01	1.9002e+00
58	TAF120312	103.1524	104.2946	103.8357	2.8129e-01	1.9008e+00
59	TAF130312	105.9363	106.9705	106.3604	1.7531e-01	1.9009e+00
60	EMPTY	0.7666	0.7764	0.7719	1.6624e-03	0.0000e+00
61	EMPTY	0.7764	0.7910	0.7824	2.5266e-03	0.0000e+00
62	EMPTY	0.7910	0.7959	0.7913	1.1714e-03	0.0000e+00
63	EMPTY	0.8008	0.8105	0.8056	1.5566e-03	0.0000e+00
64	EMPTY	0.5225	0.5322	0.5260	2.4244e-03	0.0000e+00
65	EMPTY	0.5469	0.5566	0.5513	1.7784e-03	0.0000e+00
66	EMPTY	0.5664	0.5713	0.5676	2.1065e-03	0.0000e+00
67	EMPTY	0.5859	0.5957	0.5905	1.5314e-03	0.0000e+00
68	EMPTY	0.6006	0.6104	0.6054	1.2041e-03	0.0000e+00
69	EMPTY	0.6250	0.6299	0.6252	9.6655e-04	0.0000e+00
70	EMPTY	0.6396	0.6445	0.6410	2.2146e-03	0.0000e+00
71	EMPTY	0.6641	0.6689	0.6654	2.2146e-03	0.0000e+00
72	EMPTY	0.6738	0.6885	0.6824	2.5266e-03	0.0000e+00
73	EMPTY	0.6982	0.7080	0.7031	9.8648e-04	0.0000e+00
74	EMPTY	0.7178	0.7227	0.7218	1.8950e-03	0.0000e+00
75	EMPTY	0.7373	0.7422	0.7418	1.3381e-03	0.0000e+00
76	EMPTY	0.7520	0.7617	0.7568	9.8648e-04	0.0000e+00
77	EMPTY	0.7764	0.7813	0.7770	1.6028e-03	0.0000e+00
78	EMPTY	0.8008	0.8057	0.8016	1.8082e-03	0.0000e+00
79	EMPTY	0.8203	0.8252	0.8250	9.6655e-04	0.0000e+00
80	PAN020136	42.8098	43.5728	43.1760	1.8303e-01	8.7667e-01
81	PAN050136	125.3178	126.9962	126.1600	3.8161e-01	1.7093e+00
82	PAN070136	88.6421	89.8628	89.1915	2.4468e-01	8.9812e-01
83	PAN080136	51.2755	52.2674	51.7775	2.0627e-01	8.7958e-01
84	PAN090136	39.3913	40.4594	39.8185	2.3376e-01	8.7568e-01
85	PAN100136	45.9452	47.0134	46.5190	2.5572e-01	8.7774e-01
86	PAN105136	21.9001	22.5867	22.2739	1.7659e-01	8.7178e-01
87	PAN110136	31.4589	32.2218	31.8297	1.7777e-01	8.7363e-01
88	PAN115136	25.3993	26.2386	25.7640	1.7594e-01	8.7238e-01
89	PAN120136	29.0336	29.7966	29.3952	1.7289e-01	8.7310e-01
90	PAN125136	20.3654	20.8995	20.5821	1.5209e-01	8.7152e-01
91	PAN130136	15.2113	15.8216	15.4920	1.5448e-01	8.7086e-01
92	PAN120048	43.6652	44.5808	44.0559	2.1114e-01	8.7694e-01
93	PAN130048	50.0725	50.8354	50.4540	1.7025e-01	8.7910e-01
94	PAN120224	51.1112	51.8741	51.4438	2.0024e-01	8.7945e-01
95	PAN130224	37.0013	37.9931	37.4530	1.9969e-01	8.7502e-01
96	PAN120312	40.2144	41.0537	40.5501	2.0097e-01	8.7589e-01
97	PAN130312	51.5044	52.2673	51.9499	1.8261e-01	8.7964e-01
98	PAB000136	40.1823	40.6858	40.4862	1.0288e-01	5.8877e-01
99	PAB100136	25.8112	25.9943	25.9100	4.9251e-02	5.8361e-01
100	PAB125136	21.0909	21.2740	21.2072	4.9120e-02	5.8242e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.8366	40.6911	40.2907	1.8950e-01	7.5673e-01
102	PRV0000001	29.7283	29.9725	29.9115	6.6404e-02	7.5372e-01
103	PSR0000001	18.3263	18.4484	18.4044	5.9189e-02	7.5141e-01
104	PFM0000001	103.8137	105.2786	104.4510	3.6102e-01	5.6408e-01
105	PAN000136	541.1210	549.3608	545.9916	1.5688e+00	5.1058e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0195	0.0105	2.0598e-03	0.0000e+00
108	EMPTY	-10.0000	-3.2520	-7.9915	1.5631e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0080	2.3675e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0038	2.0432e-03	0.0000e+00
112	VPW0000001	101.4385	101.8292	101.6221	1.0741e-01	1.0138e+00
113	VPW0000002	118.4608	118.8514	118.7382	1.0507e-01	1.0787e+00
114	VPW0000003	147.0365	147.4271	147.2124	1.2001e-01	1.1984e+00
115	VPW0000004	104.4734	104.8640	104.6805	1.0741e-01	1.0250e+00
116	VPW0000005	138.8709	139.6522	139.3163	1.6289e-01	1.1640e+00
117	VPW0000006	147.6750	148.0657	147.8468	1.3462e-01	1.2013e+00
118	IPW0000001	541.5501	549.3595	545.4939	1.7854e+00	9.1750e+00
119	IPW0000002	1314.0299	1325.7375	1320.1178	2.4820e+00	1.3205e+01
120	IPW0000003	1327.9498	1337.6998	1334.4240	2.7979e+00	1.3294e+01
121	IPW0000004	379.2161	381.1692	380.4466	3.8511e-01	3.6102e+00
122	IPW0000005	254.0498	255.5145	254.8017	3.5850e-01	2.8376e+00
123	IPW0000006	263.7095	264.6860	264.0706	2.7568e-01	2.8900e+00
124	EMPTY	-0.0293	-0.0146	-0.0200	3.3087e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	2.6635e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0160	3.5623e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.3146e-03	0.0000e+00
128	IHT0000001	128.7184	131.2575	129.6090	5.2963e-01	4.3000e+00
129	IHT0000002	132.5721	134.3299	133.3417	4.6923e-01	4.3114e+00
130	IHT0000003	132.8951	134.8483	133.7427	4.4224e-01	4.3126e+00
131	IHT0000004	131.1861	133.3346	131.9087	5.6531e-01	4.3070e+00
132	IHT0000005	129.4621	131.8059	130.3683	5.2757e-01	4.3023e+00
133	IHT0000006	124.3878	127.1221	125.3721	5.3519e-01	4.2874e+00
134	IHT0000007	131.5806	133.9243	132.4907	5.2141e-01	4.3088e+00
135	IHT0000008	129.9654	132.6998	131.0044	5.3879e-01	4.3042e+00
136	IHT0000009	130.1495	132.8839	131.2197	5.4138e-01	4.3049e+00
137	IHT0000010	-40.2982	-37.5639	-39.2631	5.5278e-01	4.1188e+00
138	IHT0000011	130.1119	132.6510	131.2095	5.4803e-01	4.3048e+00
139	IHT0000012	127.9222	130.0706	128.8402	5.2830e-01	4.2977e+00
140	IHT0000013	91.7969	93.9453	92.6875	4.8834e-01	4.2035e+00
141	IHT0000014	128.1476	130.1007	128.9795	4.6989e-01	4.2981e+00
142	IHT0000015	95.4026	97.3558	96.2698	4.6213e-01	4.2115e+00
143	IHT0000016	88.9122	91.0607	89.8927	4.5761e-01	4.1974e+00
144	IHT0000017	106.0472	109.1722	107.3792	8.4969e-01	4.2383e+00
145	IHT0000018	107.7449	110.6746	108.8387	6.1384e-01	4.2420e+00
146	IHT0000019	104.0640	106.2124	105.0757	5.1098e-01	4.2325e+00
147	IHT0000020	106.7833	108.7365	107.6857	5.1884e-01	4.2391e+00
148	IHT0000021	-2.8132	-0.4695	-1.4617	5.4224e-01	4.1000e+00
149	IHT0000022	92.8598	94.4223	93.6216	4.3450e-01	4.2055e+00
150	IHT0000023	104.7551	106.5129	105.6770	4.9762e-01	4.2340e+00
151	IHT0000024	69.9632	71.7210	70.8460	4.6394e-01	4.1608e+00
152	IHT0000025	105.1345	107.0876	106.1384	4.7843e-01	4.2352e+00
153	IHT0000026	105.7167	107.4745	106.5877	4.6052e-01	4.2363e+00
154	IHT0000027	90.3846	91.9471	91.2791	4.0064e-01	4.2004e+00
155	IHT0000028	91.5302	94.0693	92.7021	6.3992e-01	4.2035e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0105	107.5496	106.3192	6.2670e-01	4.2356e+00
157	IHT000030	107.4031	109.9422	108.6492	6.2377e-01	4.2415e+00
158	IHT000031	105.8368	108.3759	106.9814	5.8529e-01	4.2373e+00
159	IHT000032	107.3280	109.6717	108.2889	5.8639e-01	4.2406e+00
160	IHT000033	107.3505	109.6943	108.2373	5.9479e-01	4.2405e+00
161	IHT000034	94.1331	96.0862	95.0081	4.2175e-01	4.2086e+00
162	IHT000035	124.3089	126.4573	125.3168	4.7737e-01	4.2872e+00
163	IHT000036	92.7997	94.5575	93.6630	4.4484e-01	4.2056e+00

Velocity 1 = 25.9641 (ft/sec) (+/- 1.6889 %)
Velocity 2 = 13.4150 (ft/sec) (+/- 1.7033 %)
Pressure drop = 19.6170 (psi)
Tsat in = 267.9664 (deg F) Tsat out = 230.9205 (deg F)
Phi inner = 99.4934 (kBtu/hr-ft2) (+/- 1.4163 %)
Phi outer = 100.5533 (kBtu/hr-ft2) (+/- 1.5419 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	81.7037	82.1279	81.9285	1.8385e-01	1.9001e+00
1	TRF0000002	81.8382	82.4711	82.1082	1.2086e-01	1.9001e+00
2	TFM0000001	87.0130	87.7485	87.2969	1.8276e-01	1.9002e+00
3	TIN0000001	86.1536	86.6810	86.4551	1.5649e-01	1.9002e+00
4	TRV0000001	87.0085	87.9520	87.4924	2.1888e-01	1.9002e+00
5	TSR0000001	104.9033	106.5524	105.8483	3.8465e-01	1.9009e+00
6	TAO020136	65.4920	67.0984	66.2438	4.0395e-01	1.9000e+00
7	TAO050136	106.2427	107.1705	106.6573	2.0258e-01	1.9009e+00
8	TAO070136	105.0017	106.0408	105.5275	2.3612e-01	1.9009e+00
9	TAO080136	92.1905	93.5432	92.9947	3.1076e-01	1.9004e+00
10	TAO090136	115.0514	115.9752	115.5790	1.7108e-01	1.9014e+00
11	TAO100136	112.1888	112.8072	112.4712	1.5129e-01	1.9012e+00
12	TAO105136	114.3202	115.2469	114.7466	2.1417e-01	1.9013e+00
13	TAO110136	85.8760	86.6110	86.2351	1.6139e-01	1.9002e+00
14	TAO115136	113.1784	114.1052	113.5719	2.0563e-01	1.9013e+00
15	TAO120136	119.0333	119.9560	119.4825	2.0597e-01	1.9016e+00
16	TAO125136	80.3512	81.6155	80.9472	3.1279e-01	1.9001e+00
17	TAO130136	115.6892	117.1118	116.0782	2.1544e-01	1.9014e+00
18	TAO120048	90.7036	92.0648	91.3216	3.3848e-01	1.9003e+00
19	TAO130048	117.3886	118.1056	117.7879	1.7604e-01	1.9015e+00
20	TAO120224	118.0065	118.7245	118.3820	2.0673e-01	1.9016e+00
21	TAO130224	113.0955	114.0160	113.5516	2.3100e-01	1.9013e+00
22	TAO120312	116.2021	117.2296	116.6646	1.9060e-01	1.9015e+00
23	TAO130312	116.9526	118.2828	117.7521	2.2638e-01	1.9015e+00
24	TRT020000	106.3215	107.6692	106.9873	2.6002e-01	1.9009e+00
25	TRT070000	93.1087	93.7397	93.4640	1.7106e-01	1.9004e+00
26	TRT100000	117.9510	118.6681	118.2524	2.2686e-01	1.9016e+00
27	TRT120000	457.2352	457.6625	457.4353	9.0856e-02	1.9986e+00
28	TRT125000	86.3820	87.3260	86.8373	1.9808e-01	1.9002e+00
29	TRT130000	119.3431	120.0595	119.6645	1.5481e-01	1.9017e+00
30	EMPTY	39.6057	40.2940	39.8444	1.6691e-01	1.9011e+00
31	TAF050136	93.2677	93.9994	93.6502	1.6565e-01	1.9004e+00
32	TAF070136	97.1117	97.9424	97.4631	2.2293e-01	1.9005e+00
33	TAF080136	111.7613	112.5812	112.1442	1.8414e-01	1.9012e+00
34	TAF090136	84.9075	85.9594	85.4021	2.6041e-01	1.9002e+00
35	TAF100136	100.6152	101.5520	101.1129	1.8255e-01	1.9007e+00
36	TAF105136	101.4489	102.4803	102.0341	2.4807e-01	1.9007e+00
37	TAF110136	102.2393	103.0688	102.7267	1.8046e-01	1.9007e+00
38	TAF115136	103.5661	104.7048	104.2103	2.4860e-01	1.9008e+00
39	TAF120136	108.6886	109.5131	109.0492	1.6958e-01	1.9010e+00
40	TAF125136	104.7165	106.1580	105.4398	2.8386e-01	1.9008e+00
41	TAF130136	105.6580	106.3829	106.0040	1.7197e-01	1.9009e+00
42	TAF120048	104.7848	106.1367	105.4860	2.6336e-01	1.9008e+00
43	TAF130048	106.5915	107.3162	106.8341	1.2841e-01	1.9009e+00
44	TAF120224	103.6145	104.4440	104.0356	1.8308e-01	1.9008e+00
45	TAF130224	104.3945	105.0182	104.7255	1.1451e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1170	1.9287e-01	1.9010e+00
47	EMPTY	39.1464	39.8352	39.4128	1.4191e-01	1.9010e+00
48	TAI130048	113.4692	114.7035	114.0803	2.9832e-01	1.9013e+00
49	TAI130136	117.0485	117.9706	117.4850	1.8611e-01	1.9015e+00
50	TAI130224	118.9003	120.2344	119.5550	3.1914e-01	1.9017e+00
51	TAI130312	114.3463	115.3755	114.9125	1.9091e-01	1.9014e+00
52	TRR130000	76.7996	77.8542	77.4305	2.6825e-01	1.9000e+00
53	TSI000001	58.0103	58.8708	58.4211	1.9144e-01	1.9001e+00
54	TSI000002	88.3296	89.2735	88.7851	2.7057e-01	1.9002e+00
55	TSO000001	56.2407	57.3235	56.8362	2.1457e-01	1.9001e+00
56	TSO000002	62.3265	63.3994	62.9081	2.2326e-01	1.9000e+00
57	TAF020136	87.9306	88.9853	88.4606	1.8885e-01	1.9002e+00
58	TAF120312	103.6715	104.7086	104.1801	2.9351e-01	1.9008e+00
59	TAF130312	106.4527	107.1769	106.7529	1.5960e-01	1.9009e+00
60	EMPTY	0.7764	0.7813	0.7797	2.3008e-03	0.0000e+00
61	EMPTY	0.7813	0.7959	0.7907	2.0716e-03	0.0000e+00
62	EMPTY	0.7959	0.8008	0.7998	1.9730e-03	0.0000e+00
63	EMPTY	0.8105	0.8154	0.8123	2.3675e-03	0.0000e+00
64	EMPTY	0.5273	0.5322	0.5275	9.6655e-04	0.0000e+00
65	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
66	EMPTY	0.5664	0.5713	0.5686	2.4484e-03	0.0000e+00
67	EMPTY	0.5859	0.5908	0.5907	6.9053e-04	0.0000e+00
68	EMPTY	0.6006	0.6104	0.6052	1.5314e-03	0.0000e+00
69	EMPTY	0.6201	0.6250	0.6233	2.3365e-03	0.0000e+00
70	EMPTY	0.6299	0.6396	0.6395	1.3811e-03	0.0000e+00
71	EMPTY	0.6592	0.6689	0.6641	9.8648e-04	0.0000e+00
72	EMPTY	0.6689	0.6836	0.6786	1.5566e-03	0.0000e+00
73	EMPTY	0.6982	0.7031	0.6996	2.2146e-03	0.0000e+00
74	EMPTY	0.7178	0.7227	0.7179	6.9053e-04	0.0000e+00
75	EMPTY	0.7324	0.7373	0.7372	6.9053e-04	0.0000e+00
76	EMPTY	0.7471	0.7520	0.7519	6.9053e-04	0.0000e+00
77	EMPTY	0.7715	0.7764	0.7717	9.6655e-04	0.0000e+00
78	EMPTY	0.7910	0.8008	0.7960	1.2041e-03	0.0000e+00
79	EMPTY	0.8154	0.8203	0.8187	2.3365e-03	0.0000e+00
80	PAN020136	42.5809	43.1913	42.8937	1.6619e-01	8.7658e-01
81	PAN050136	125.0126	126.2333	125.5375	3.1159e-01	1.7091e+00
82	PAN070136	88.4132	89.0999	88.7184	1.9497e-01	8.9783e-01
83	PAN080136	51.1229	51.8859	51.5075	1.9311e-01	8.7948e-01
84	PAN090136	39.0098	40.0779	39.5728	2.7395e-01	8.7561e-01
85	PAN100136	45.8689	47.0896	46.4274	2.6404e-01	8.7771e-01
86	PAN105136	20.5268	21.5949	21.0593	1.9096e-01	8.7159e-01
87	PAN110136	32.4507	33.2136	32.8611	1.7499e-01	8.7387e-01
88	PAN115136	25.1704	25.9334	25.6160	1.8065e-01	8.7235e-01
89	PAN120136	29.1862	29.9491	29.5646	1.2892e-01	8.7313e-01
90	PAN125136	19.9076	20.5943	20.3013	1.5518e-01	8.7148e-01
91	PAN130136	14.7535	15.5927	15.2219	1.5103e-01	8.7083e-01
92	PAN120048	43.5126	44.5045	43.9384	2.5658e-01	8.7691e-01
93	PAN130048	49.9962	50.6828	50.2678	1.3363e-01	8.7903e-01
94	PAN120224	51.0349	51.8741	51.4118	1.8329e-01	8.7944e-01
95	PAN130224	36.6198	37.5354	37.0807	2.0271e-01	8.7492e-01
96	PAN120312	40.2907	40.9011	40.5654	1.5567e-01	8.7589e-01
97	PAN130312	50.8940	51.8096	51.3182	2.0224e-01	8.7941e-01
98	PAB000136	40.2281	40.6401	40.4029	8.8072e-02	5.8873e-01
99	PAB100136	25.8112	25.9943	25.9064	5.0519e-02	5.8360e-01
100	PAB125136	21.0909	21.3198	21.2264	5.3095e-02	5.8242e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.8366	40.4470	40.1174	1.4433e-01	7.5668e-01
102	PRV0000001	29.6063	29.8504	29.6307	5.5146e-02	7.5365e-01
103	PSR0000001	18.3263	18.5704	18.4508	3.0104e-02	7.5142e-01
104	PFM0000001	102.8067	105.0955	103.9749	5.2952e-01	5.6353e-01
105	PAN000136	539.7477	546.6142	543.1077	1.4553e+00	5.1039e+00
106	PFM0000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0146	0.0104	1.6028e-03	0.0000e+00
108	EMPTY	-10.0000	-0.6201	-7.2874	2.6378e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0089	1.8950e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0042	1.7115e-03	0.0000e+00
112	VPW0000001	101.4385	102.0245	101.7198	1.3182e-01	1.0142e+00
113	VPW0000002	118.4608	119.2421	118.7616	1.2608e-01	1.0788e+00
114	VPW0000003	146.8412	147.2318	147.1147	1.0440e-01	1.1980e+00
115	VPW0000004	104.4734	104.8640	104.6141	1.1864e-01	1.0247e+00
116	VPW0000005	139.0663	139.8475	139.3554	1.5404e-01	1.1641e+00
117	VPW0000006	147.4797	148.2610	147.8702	1.6741e-01	1.2014e+00
118	IPW0000001	564.9782	574.7399	571.0304	2.5940e+00	9.2715e+00
119	IPW0000002	1278.9071	1286.7122	1282.5753	1.9568e+00	1.2972e+01
120	IPW0000003	1302.5999	1312.3499	1307.7866	1.8733e+00	1.3128e+01
121	IPW0000004	384.0989	386.5403	385.2513	6.7457e-01	3.6418e+00
122	IPW0000005	253.0734	255.0263	254.0791	4.2323e-01	2.8335e+00
123	IPW0000006	260.7798	261.7563	261.3460	2.8523e-01	2.8745e+00
124	EMPTY	-0.0293	-0.0146	-0.0202	3.9471e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0049	-0.0135	3.6326e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0155	3.2253e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	4.3629e-03	0.0000e+00
128	IHT0000001	128.5231	131.2575	129.6324	6.2070e-01	4.3001e+00
129	IHT0000002	132.5721	134.9158	133.3690	5.5501e-01	4.3115e+00
130	IHT0000003	132.5045	135.0436	133.7388	5.8319e-01	4.3126e+00
131	IHT0000004	130.6002	133.1393	131.9400	5.6360e-01	4.3071e+00
132	IHT0000005	129.2668	131.2199	130.3527	5.1624e-01	4.3022e+00
133	IHT0000006	124.1925	126.7315	125.4034	5.2348e-01	4.3022e+00
134	IHT0000007	131.3852	133.3384	132.4907	4.7615e-01	4.3088e+00
135	IHT0000008	129.9654	131.9186	131.0044	4.8559e-01	4.3042e+00
136	IHT0000009	130.3448	132.2979	131.2393	4.9926e-01	4.3049e+00
137	IHT0000010	-40.2982	-38.1498	-39.2904	5.8575e-01	4.1188e+00
138	IHT0000011	130.3072	132.6510	131.2525	5.9367e-01	4.3050e+00
139	IHT0000012	127.7269	130.2659	128.8519	6.4303e-01	4.2977e+00
140	IHT0000013	91.6016	94.1406	92.6367	5.7622e-01	4.2034e+00
141	IHT0000014	127.7569	130.6866	129.0225	6.1794e-01	4.2982e+00
142	IHT0000015	95.0120	97.7464	96.2073	5.4052e-01	4.2114e+00
143	IHT0000016	88.9122	91.2560	89.9982	5.4556e-01	4.1976e+00
144	IHT0000017	106.0472	109.1722	107.6566	8.4774e-01	4.2390e+00
145	IHT0000018	107.9402	110.4793	108.9403	5.9141e-01	4.2423e+00
146	IHT0000019	104.2593	106.4078	105.1773	4.8045e-01	4.2328e+00
147	IHT0000020	106.5880	108.9318	107.8419	4.9926e-01	4.2395e+00
148	IHT0000021	-2.4226	0.1164	-1.2976	6.0433e-01	4.1000e+00
149	IHT0000022	92.8598	94.8130	93.7739	4.6428e-01	4.2059e+00
150	IHT0000023	104.9504	106.7083	105.8098	4.4990e-01	4.2343e+00
151	IHT0000024	69.9632	71.9163	70.9046	4.5964e-01	4.1609e+00
152	IHT0000025	105.1345	107.2829	106.2243	4.8019e-01	4.2354e+00
153	IHT0000026	105.5213	107.6698	106.7010	4.8961e-01	4.2366e+00
154	IHT0000027	90.1893	92.1424	91.3690	4.8482e-01	4.2006e+00
155	IHT0000028	91.7255	94.6552	92.7959	6.1160e-01	4.2037e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4012	108.3308	106.4207	6.1674e-01	4.2359e+00
157	IHT000030	107.5984	110.3328	108.6492	6.0088e-01	4.2415e+00
158	IHT000031	106.0322	108.7665	106.9931	6.0854e-01	4.2373e+00
159	IHT000032	107.3280	110.0623	108.3514	6.4303e-01	4.2408e+00
160	IHT000033	107.1552	109.8896	108.2842	6.3047e-01	4.2406e+00
161	IHT000034	94.1331	96.4768	94.9573	5.5424e-01	4.2085e+00
162	IHT000035	124.3089	126.8480	125.3363	5.1872e-01	4.2873e+00
163	IHT000036	92.7997	94.7528	93.5771	4.6770e-01	4.2054e+00

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Velocity 1 = 0.058201 (ft/sec)

Velocity 2 = 0.000400 (ft/sec)

Pressure Drop = 0.104200 (psi)

Tsat in = 0.122986 (deg F) Tsat out = 0.049194 (deg F)

Phi inner = 1.914497 (kBtu/hr-ft2) Phi outer = 0.488602 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0721	0.0881
1	TRF000002	0.0380	0.0463
2	TFM000001	0.4113	0.4734
3	TIN000001	0.3624	0.4209
4	TRV000001	0.7786	0.8979
5	TSR000001	2.0003	1.9262
6	TAO020136	2.0619	3.2126
7	TAO050136	0.3952	0.3719
8	TAO070136	0.2621	0.2490
9	TAO080136	0.3163	0.3413
10	TAO090136	0.3364	0.2919
11	TAO100136	0.3373	0.3008
12	TAO105136	0.3047	0.2662
13	TAO110136	0.0382	0.0443
14	TAO115136	0.4076	0.3602
15	TAO120136	0.3729	0.3131
16	TAO125136	0.8049	1.0043
17	TAO130136	0.3327	0.2874
18	TAO120048	0.0923	0.1012
19	TAO130048	0.3189	0.2715
20	TAO120224	0.3116	0.2639
21	TAO130224	0.3347	0.2956
22	TAO120312	0.2916	0.2506
23	TAO130312	0.2824	0.2404
24	TRT020000	0.3359	0.3150
25	TRT070000	2.8927	3.0021
26	TRT100000	0.3354	0.2844
27	TRT120000	0.0446	0.0098
28	TRT125000	0.4432	0.5130
29	TRT130000	0.2738	0.2293
30	EMPTY	0.0092	0.0231
31	TAF050136	0.2918	0.3126
32	TAF070136	0.4023	0.4145
33	TAF080136	0.3276	0.2930
34	TAF090136	0.3659	0.4303
35	TAF100136	0.3206	0.3181
36	TAF105136	0.3011	0.2960
37	TAF110136	0.3229	0.3153
38	TAF115136	0.3641	0.3506
39	TAF120136	0.3126	0.2875
40	TAF125136	0.4317	0.4111
41	TAF130136	0.3553	0.3363
42	TAF120048	0.3331	0.3168
43	TAF130048	0.3556	0.3340
44	TAF120224	0.3603	0.3475
45	TAF130224	0.3706	0.3551

#	Name	Abs Diff	%Diff
46	EMPTY	0.0137	0.0359
47	EMPTY	0.0138	0.0350
48	TAI130048	0.3455	0.3038
49	TAI130136	0.2948	0.2516
50	TAI130224	0.3407	0.2858
51	TAI130312	0.3211	0.2802
52	TRR130000	3.4280	4.2395
53	TSI000001	0.5746	0.9740
54	TSI000002	2.1209	2.3331
55	TSO000001	0.7146	1.2417
56	TSO000002	0.4886	0.7707
57	TAF020136	0.3378	0.3833
58	TAF120312	0.3444	0.3317
59	TAF130312	0.3925	0.3690
60	EMPTY	0.0078	1.0105
61	EMPTY	0.0083	1.0608
62	EMPTY	0.0085	1.0742
63	EMPTY	0.0067	0.8317
64	EMPTY	0.0015	0.2852
65	EMPTY	0.0005	0.0907
66	EMPTY	0.0010	0.1762
67	EMPTY	0.0002	0.0339
68	EMPTY	0.0002	0.0330
69	EMPTY	0.0019	0.3039
70	EMPTY	0.0015	0.2340
71	EMPTY	0.0013	0.1954
72	EMPTY	0.0038	0.5569
73	EMPTY	0.0035	0.4978
74	EMPTY	0.0039	0.5403
75	EMPTY	0.0046	0.6201
76	EMPTY	0.0049	0.6475
77	EMPTY	0.0053	0.6821
78	EMPTY	0.0056	0.6986
79	EMPTY	0.0063	0.7636
80	PAN020136	0.2823	0.6538
81	PAN050136	0.6225	0.4934
82	PAN070136	0.4731	0.5304
83	PAN080136	0.2700	0.5215
84	PAN090136	0.2457	0.6171
85	PAN100136	0.0916	0.1969
86	PAN105136	1.2146	5.4530
87	PAN110136	1.0314	3.2404
88	PAN115136	0.1480	0.5744
89	PAN120136	0.1694	0.5763
90	PAN125136	0.2808	1.3643
91	PAN130136	0.2701	1.7435
92	PAN120048	0.1175	0.2667
93	PAN130048	0.1862	0.3690
94	PAN120224	0.0320	0.0622
95	PAN130224	0.3723	0.9940
96	PAN120312	0.0153	0.0377
97	PAN130312	0.6317	1.2160
98	PAB000136	0.0833	0.2057
99	PAB100136	0.0036	0.0139
100	PAB125136	0.0192	0.0905

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1733	0.4301
102	PRV000001	0.2808	0.9388
103	PSR000001	0.0464	0.2521
104	PFM000001	0.4761	0.4558
105	PAN000136	2.8839	0.5282
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	0.9524
108	EMPTY	0.7041	8.8106
109	EMPTY	0.0009	11.2500
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	10.5263
112	VPW000001	0.0977	0.0961
113	VPW000002	0.0234	0.0197
114	VPW000003	0.0977	0.0664
115	VPW000004	0.0664	0.0634
116	VPW000005	0.0391	0.0281
117	VPW000006	0.0234	0.0158
118	IPW000001	25.5365	4.6814
119	IPW000002	37.5425	2.8439
120	IPW000003	26.6373	1.9962
121	IPW000004	4.8047	1.2629
122	IPW000005	0.7226	0.2836
123	IPW000006	2.7246	1.0318
124	EMPTY	0.0002	1.0000
125	EMPTY	0.0001	0.7353
126	EMPTY	0.0005	3.1250
127	EMPTY	0.0001	0.6369
128	IHT000001	0.0234	0.0181
129	IHT000002	0.0273	0.0205
130	IHT000003	0.0039	0.0029
131	IHT000004	0.0313	0.0237
132	IHT000005	0.0156	0.0120
133	IHT000006	0.0313	0.0250
134	IHT000007	0.0000	0.0000
135	IHT000008	0.0000	0.0000
136	IHT000009	0.0196	0.0149
137	IHT000010	0.0273	0.0695
138	IHT000011	0.0430	0.0328
139	IHT000012	0.0117	0.0091
140	IHT000013	0.0508	0.0548
141	IHT000014	0.0430	0.0333
142	IHT000015	0.0625	0.0649
143	IHT000016	0.1055	0.1174
144	IHT000017	0.2774	0.2583
145	IHT000018	0.1016	0.0933
146	IHT000019	0.1016	0.0967
147	IHT000020	0.1562	0.1451
148	IHT000021	0.1641	11.2266
149	IHT000022	0.1523	0.1627
150	IHT000023	0.1328	0.1257
151	IHT000024	0.0586	0.0827
152	IHT000025	0.0859	0.0809
153	IHT000026	0.1133	0.1063
154	IHT000027	0.0899	0.0985
155	IHT000028	0.0938	0.1012

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1015	0.0955
157	IHT000030	0.0000	0.0000
158	IHT000031	0.0117	0.0109
159	IHT000032	0.0625	0.0577
160	IHT000033	0.0469	0.0433
161	IHT000034	0.0508	0.0535
162	IHT000035	0.0195	0.0156
163	IHT000036	0.0859	0.0917

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sum1

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Velocity 1 = 14.0919 (ft/sec) (+/- 1.8625 %)
Velocity 2 = 13.4154 (ft/sec) (+/- 1.7033 %)
Pressure drop = 2.5138 (psi)
Tsat in = 267.8216 (deg F) Tsat out = 263.8577 (deg F)
Phi inner = 100.0133 (kBtu/hr-ft2) (+/- 1.4148 %)
Phi outer = 100.3988 (kBtu/hr-ft2) (+/- 1.5434 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.7037	82.7639	82.0303	2.2756e-01	1.9001e+00
1	TRF000002	82.0492	82.4711	82.1884	1.1758e-01	1.9001e+00
2	TFM000001	87.3277	88.0630	87.6432	1.9667e-01	1.9002e+00
3	TIN000001	86.3642	87.2080	86.7647	1.5793e-01	1.9002e+00
4	TRV000001	87.0091	87.9546	87.4491	1.9633e-01	1.9002e+00
5	TSR000001	107.4760	108.2010	107.9093	1.6442e-01	1.9010e+00
6	TAO020136	62.7032	65.0640	63.9996	5.3225e-01	1.9000e+00
7	TAO050136	120.6525	121.9765	121.3287	2.2465e-01	1.9018e+00
8	TAO070136	119.1729	120.2015	119.7284	2.7002e-01	1.9017e+00
9	TAO080136	97.9949	98.8245	98.3192	1.9856e-01	1.9005e+00
10	TAO090136	135.8898	136.6979	136.3387	2.0436e-01	1.9030e+00
11	TAO100136	132.3768	133.1898	132.8069	2.0949e-01	1.9027e+00
12	TAO105136	135.3493	136.2616	135.8723	1.9674e-01	1.9029e+00
13	TAO110136	86.1894	86.8228	86.5090	1.5707e-01	1.9002e+00
14	TAO115136	134.7097	135.9246	135.1800	2.4614e-01	1.9029e+00
15	TAO120136	142.7815	143.5875	143.2529	1.9874e-01	1.9036e+00
16	TAO125136	89.2702	90.6314	90.0787	2.9753e-01	1.9003e+00
17	TAO130136	138.6484	139.5522	139.0321	1.7702e-01	1.9032e+00
18	TAO120048	91.1222	92.1700	91.6337	2.6455e-01	1.9003e+00
19	TAO130048	140.7648	141.4715	141.0710	1.5227e-01	1.9034e+00
20	TAO120224	141.7494	142.4532	142.0508	1.6662e-01	1.9035e+00
21	TAO130224	134.4096	135.4147	134.8884	2.2459e-01	1.9028e+00
22	TAO120312	139.1045	139.8111	139.4482	1.6830e-01	1.9032e+00
23	TAO130312	139.6579	140.5629	140.0651	1.8757e-01	1.9033e+00
24	TRT020000	119.4230	120.3473	119.9243	2.2493e-01	1.9017e+00
25	TRT070000	92.8978	94.3699	93.4068	3.2956e-01	1.9004e+00
26	TRT100000	139.6309	140.6400	140.1428	2.4485e-01	1.9033e+00
27	TRT120000	457.3205	457.8344	457.5089	9.9390e-02	1.9986e+00
28	TRT125000	86.8010	87.5377	87.1367	1.8597e-01	1.9002e+00
29	TRT130000	142.1099	142.8162	142.3839	1.6527e-01	1.9035e+00
30	EMPTY	39.3761	40.0646	39.7755	2.1654e-01	1.9011e+00
31	TAF050136	99.2902	100.1200	99.6686	2.0109e-01	1.9006e+00
32	TAF070136	105.7842	106.6116	106.1220	1.9230e-01	1.9009e+00
33	TAF080136	130.4282	131.5424	130.9859	2.0359e-01	1.9025e+00
34	TAF090136	85.3278	86.3801	85.9297	2.9122e-01	1.9002e+00
35	TAF100136	113.1443	114.0733	113.6188	1.7187e-01	1.9013e+00
36	TAF105136	114.7635	115.8856	115.2380	2.7417e-01	1.9014e+00
37	TAF110136	116.3242	117.1470	116.6776	1.6349e-01	1.9015e+00
38	TAF115136	118.5717	119.6992	118.9610	1.9416e-01	1.9016e+00
39	TAF120136	127.5440	128.2576	127.8651	1.4996e-01	1.9023e+00
40	TAF125136	120.7379	121.8567	121.3206	2.5777e-01	1.9018e+00
41	TAF130136	122.2690	122.7825	122.5432	1.3302e-01	1.9019e+00
42	TAF120048	120.4223	121.3476	120.9281	2.1271e-01	1.9017e+00
43	TAF130048	123.1154	123.9345	123.4917	1.5389e-01	1.9019e+00
44	TAF120224	118.5337	119.3541	118.9481	2.0902e-01	1.9016e+00
45	TAF130224	120.3314	120.9479	120.6395	1.4533e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0940	1.8045e-01	1.9010e+00
47	EMPTY	39.1464	39.8352	39.4496	1.4987e-01	1.9010e+00
48	TAI130048	135.5846	137.1026	136.2724	3.1969e-01	1.9030e+00
49	TAI130136	140.6588	141.4636	141.0576	2.3271e-01	1.9034e+00
50	TAI130224	141.8949	143.0049	142.4601	2.9605e-01	1.9035e+00
51	TAI130312	136.4823	137.3941	136.9679	1.9939e-01	1.9030e+00
52	TRR130000	76.0599	77.5423	76.7202	3.1988e-01	1.9000e+00
53	TSI000001	58.4395	59.1922	58.8700	1.6829e-01	1.9001e+00
54	TSI000002	87.3885	88.7504	88.1174	3.5006e-01	1.9002e+00
55	TSO000001	56.5651	57.6476	57.1023	2.2290e-01	1.9001e+00
56	TSO000002	64.3624	65.1141	64.6757	1.5884e-01	1.9000e+00
57	TAF020136	90.2529	91.3061	90.7207	2.0539e-01	1.9003e+00
58	TAF120312	118.8266	119.7486	119.3345	2.4414e-01	1.9016e+00
59	TAF130312	123.7801	124.7001	124.0745	1.7708e-01	1.9020e+00
60	EMPTY	1.1865	1.1865	1.1865	0.0000e+00	0.0000e+00
61	EMPTY	1.1914	1.1963	1.1925	2.0432e-03	0.0000e+00
62	EMPTY	1.1963	1.2012	1.1974	2.0432e-03	0.0000e+00
63	EMPTY	1.2061	1.2109	1.2079	2.3941e-03	0.0000e+00
64	EMPTY	0.6934	0.7031	0.6981	1.2041e-03	0.0000e+00
65	EMPTY	0.7178	0.7227	0.7192	2.2603e-03	0.0000e+00
66	EMPTY	0.7324	0.7373	0.7372	6.9053e-04	0.0000e+00
67	EMPTY	0.7520	0.7568	0.7563	1.6028e-03	0.0000e+00
68	EMPTY	0.7666	0.7715	0.7691	2.4642e-03	0.0000e+00
69	EMPTY	0.7861	0.7910	0.7866	1.4797e-03	0.0000e+00
70	EMPTY	0.8008	0.8057	0.8013	1.4797e-03	0.0000e+00
71	EMPTY	0.8203	0.8252	0.8248	1.3381e-03	0.0000e+00
72	EMPTY	0.8350	0.8398	0.8386	2.1635e-03	0.0000e+00
73	EMPTY	0.8545	0.8691	0.8591	2.0716e-03	0.0000e+00
74	EMPTY	0.8740	0.8740	0.8740	0.0000e+00	0.0000e+00
75	EMPTY	0.8838	0.8936	0.8927	2.1364e-03	0.0000e+00
76	EMPTY	0.9033	0.9082	0.9059	2.4642e-03	0.0000e+00
77	EMPTY	0.9229	0.9277	0.9253	2.4662e-03	0.0000e+00
78	EMPTY	0.9473	0.9521	0.9474	6.9053e-04	0.0000e+00
79	EMPTY	0.9668	0.9766	0.9704	2.3778e-03	0.0000e+00
80	PAN020136	0.3904	1.0007	0.6650	1.4623e-01	8.7000e-01
81	PAN050136	15.4545	16.5226	15.9458	2.7450e-01	1.6805e+00
82	PAN070136	12.3482	13.3400	12.8136	2.1921e-01	8.7059e-01
83	PAN080136	7.2539	8.0169	7.7163	1.6914e-01	8.7021e-01
84	PAN090136	4.2197	4.9064	4.5646	1.4063e-01	8.7007e-01
85	PAN100136	6.0435	6.5776	6.3365	1.3381e-01	8.7014e-01
86	PAN105136	2.2162	2.7503	2.4695	1.1783e-01	8.7002e-01
87	PAN110136	5.0612	5.5189	5.2931	1.1323e-01	8.7010e-01
88	PAN115136	3.7318	4.1896	3.9333	1.3327e-01	8.7006e-01
89	PAN120136	4.9247	5.6877	5.3108	1.7123e-01	8.7010e-01
90	PAN125136	2.1311	2.5126	2.3463	1.0755e-01	8.7002e-01
91	PAN130136	0.3339	0.6391	0.4758	8.3020e-02	8.7000e-01
92	PAN120048	5.9760	6.4338	6.1561	1.2211e-01	8.7014e-01
93	PAN130048	7.5005	7.9582	7.7309	1.1167e-01	8.7021e-01
94	PAN120224	6.6318	7.3184	7.0224	1.3405e-01	8.7018e-01
95	PAN130224	3.7371	4.1949	3.9264	1.1963e-01	8.7006e-01
96	PAN120312	4.5852	5.1955	4.8659	1.3995e-01	8.7009e-01
97	PAN130312	8.4746	9.0087	8.7233	1.2504e-01	8.7027e-01
98	PAB000136	40.1365	40.5027	40.3050	8.4478e-02	5.8869e-01
99	PAB100136	38.2623	38.4455	38.3447	4.9803e-02	5.8787e-01
100	PAB125136	37.6162	37.7993	37.7050	4.8419e-02	5.8761e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7146	40.3249	40.0588	1.4100e-01	7.5666e-01
102	PRV000001	29.7283	29.8504	29.7894	6.1655e-02	7.5369e-01
103	PSR000001	36.7589	37.1251	36.9689	7.4150e-02	7.5567e-01
104	PFM000001	30.0222	30.9378	30.4397	2.1741e-01	5.0576e-01
105	PAN000136	66.4201	73.2866	69.5970	1.5624e+00	4.9231e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0094	1.3381e-03	0.0000e+00
108	EMPTY	-10.0000	-1.0107	-5.8505	2.6885e+00	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	0.0005	1.4797e-03	0.0000e+00
112	VPW000001	101.6339	102.0245	101.8057	1.0168e-01	1.0145e+00
113	VPW000002	118.4608	118.8514	118.7811	1.0259e-01	1.0789e+00
114	VPW000003	147.0365	147.4271	147.2124	1.3811e-01	1.1984e+00
115	VPW000004	104.6687	105.2546	104.7977	1.2853e-01	1.0254e+00
116	VPW000005	139.2616	139.6522	139.4530	1.1497e-01	1.1646e+00
117	VPW000006	147.6750	148.2610	147.9835	1.1897e-01	1.2019e+00
118	IPW000001	553.2642	566.9306	558.6917	2.8794e+00	9.2244e+00
119	IPW000002	1276.9558	1296.4685	1288.6246	7.0021e+00	1.3009e+01
120	IPW000003	1306.4999	1320.1499	1314.3002	3.0516e+00	1.3169e+01
121	IPW000004	383.6106	385.5638	384.6556	4.3011e-01	3.6379e+00
122	IPW000005	253.0734	255.0263	254.0107	3.7998e-01	2.8332e+00
123	IPW000006	261.2681	263.2212	261.9612	4.3101e-01	2.8780e+00
124	EMPTY	-0.0244	-0.0098	-0.0173	3.8473e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0116	2.7709e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0135	3.4961e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0151	3.0003e-03	0.0000e+00
128	IHT000001	128.1325	131.0622	129.5582	5.6806e-01	4.2998e+00
129	IHT000002	132.1815	134.7205	133.2479	5.5272e-01	4.3111e+00
130	IHT000003	132.6998	134.6530	133.6216	5.2056e-01	4.3122e+00
131	IHT000004	130.9908	132.9440	131.8267	4.6192e-01	4.3067e+00
132	IHT000005	129.2668	131.6106	130.2511	4.7672e-01	4.3019e+00
133	IHT000006	124.3878	126.9268	125.2901	5.0206e-01	4.2872e+00
134	IHT000007	131.5806	134.1196	132.4009	4.9284e-01	4.3085e+00
135	IHT000008	129.9654	132.1139	130.9107	4.4356e-01	4.3039e+00
136	IHT000009	130.1495	132.4932	131.1026	4.8108e-01	4.3045e+00
137	IHT000010	-40.4935	-38.1498	-39.3295	6.1758e-01	4.1188e+00
138	IHT000011	129.9166	132.2603	131.1783	6.0645e-01	4.3047e+00
139	IHT000012	127.5315	129.8753	128.7425	6.3135e-01	4.2974e+00
140	IHT000013	91.6016	93.9453	92.7070	5.8209e-01	4.2035e+00
141	IHT000014	127.9522	130.2960	128.9600	5.6546e-01	4.2980e+00
142	IHT000015	95.2073	97.3558	96.2854	5.2086e-01	4.2115e+00
143	IHT000016	88.7169	90.8654	89.8576	4.7574e-01	4.1973e+00
144	IHT000017	106.0472	109.1722	107.8675	7.6151e-01	4.2395e+00
145	IHT000018	107.9402	110.0886	108.7567	5.2451e-01	4.2418e+00
146	IHT000019	103.6734	106.0171	104.9507	5.5131e-01	4.2322e+00
147	IHT000020	106.3927	108.9318	107.6779	5.6784e-01	4.2390e+00
148	IHT000021	-3.0086	0.1164	-1.2742	6.6338e-01	4.1000e+00
149	IHT000022	92.2739	94.8130	93.6216	5.3270e-01	4.2055e+00
150	IHT000023	104.3645	106.9036	105.6457	4.8674e-01	4.2339e+00
151	IHT000024	69.3773	71.5257	70.6937	4.4957e-01	4.1605e+00
152	IHT000025	104.7439	107.2829	106.0329	4.6689e-01	4.2349e+00
153	IHT000026	105.1307	107.6698	106.5174	4.6563e-01	4.2361e+00
154	IHT000027	90.1893	91.9471	91.2869	4.5658e-01	4.2004e+00
155	IHT000028	90.9443	94.2646	92.7568	6.2270e-01	4.2036e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6199	107.7449	106.2723	5.7617e-01	4.2355e+00
157	IHT000030	107.0125	109.7469	108.5672	5.8255e-01	4.2413e+00
158	IHT000031	105.4462	108.1806	106.8955	5.7465e-01	4.2371e+00
159	IHT000032	106.9373	109.4764	108.2459	5.6669e-01	4.2405e+00
160	IHT000033	106.9599	109.4990	108.1982	5.6718e-01	4.2404e+00
161	IHT000034	93.9378	96.0862	95.1018	5.0833e-01	4.2089e+00
162	IHT000035	124.1136	126.4573	125.3011	5.0353e-01	4.2872e+00
163	IHT000036	92.6044	94.9482	93.7060	5.3344e-01	4.2057e+00

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Velocity 1 = 14.0837 (ft/sec) (+/- 1.8630 %)
 Velocity 2 = 13.4152 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 2.5215 (psi)
 T_{sat} in = 267.3947 (deg F) T_{sat} out = 263.3392 (deg F)
 Phi inner = 100.9023 (kBtu/hr-ft²) (+/- 1.4123 %)
 Phi outer = 100.6717 (kBtu/hr-ft²) (+/- 1.5428 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft²)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	81.7037	82.3399	82.0558	1.8973e-01	1.9001e+00
1	TRF0000002	82.0492	82.4711	82.2686	1.4110e-01	1.9001e+00
2	TFM0000001	86.6991	87.8540	87.4695	2.1586e-01	1.9002e+00
3	TIN0000001	86.3642	86.9968	86.6573	1.4637e-01	1.9002e+00
4	TRV0000001	87.2177	88.1616	87.6857	1.9782e-01	1.9002e+00
5	TSR0000001	108.4009	109.5352	108.9313	2.7895e-01	1.9010e+00
6	TAO020136	63.6691	66.0275	65.1511	5.8981e-01	1.9000e+00
7	TAO050136	120.8562	121.8738	121.3880	2.0310e-01	1.9018e+00
8	TAO070136	119.2762	120.4064	119.8332	2.3320e-01	1.9017e+00
9	TAO080136	97.0651	98.1021	97.5729	2.3706e-01	1.9005e+00
10	TAO090136	136.0915	136.7995	136.4618	2.1175e-01	1.9030e+00
11	TAO100136	132.4782	133.2882	132.8416	1.6144e-01	1.9027e+00
12	TAO105136	135.3493	136.3627	135.8905	2.3117e-01	1.9029e+00
13	TAO110136	85.9811	86.8197	86.4284	1.8302e-01	1.9002e+00
14	TAO115136	134.8109	135.8241	135.2791	2.3040e-01	1.9029e+00
15	TAO120136	142.7815	143.6880	143.2510	1.9683e-01	1.9036e+00
16	TAO125136	89.4805	90.7361	90.1437	3.2990e-01	1.9003e+00
17	TAO130136	138.6479	139.4463	139.1382	1.5734e-01	1.9032e+00
18	TAO120048	91.2269	92.2739	91.7362	3.0348e-01	1.9003e+00
19	TAO130048	140.7648	141.3698	141.0732	1.6584e-01	1.9034e+00
20	TAO120224	141.8488	142.5544	142.2540	1.7797e-01	1.9035e+00
21	TAO130224	134.6099	135.5159	135.0832	2.3548e-01	1.9029e+00
22	TAO120312	139.1050	140.0138	139.4987	2.2554e-01	1.9033e+00
23	TAO130312	139.6584	140.3638	140.0995	1.7612e-01	1.9033e+00
24	TRT020000	119.5259	120.5524	119.9057	2.3111e-01	1.9017e+00
25	TRT070000	96.7863	98.0450	97.2668	3.0561e-01	1.9005e+00
26	TRT100000	139.3303	140.6383	140.0767	2.6370e-01	1.9033e+00
27	TRT120000	457.3205	457.7483	457.5516	1.0407e-01	1.9986e+00
28	TRT125000	86.3839	87.0142	86.7258	1.5120e-01	1.9002e+00
29	TRT130000	142.2099	142.8145	142.4824	1.5522e-01	1.9035e+00
30	EMPTY	39.3761	40.0646	39.7939	2.2568e-01	1.9011e+00
31	TAF050136	99.2907	100.0180	99.5881	1.8045e-01	1.9006e+00
32	TAF070136	105.6802	106.6093	106.1409	2.2176e-01	1.9009e+00
33	TAF080136	130.7322	131.3385	131.0327	1.5647e-01	1.9025e+00
34	TAF090136	85.4330	86.7999	86.0831	2.9854e-01	1.9002e+00
35	TAF100136	113.3504	113.9694	113.6580	1.6982e-01	1.9013e+00
36	TAF105136	114.5603	115.7871	115.2120	2.6828e-01	1.9014e+00
37	TAF110136	116.2224	117.1446	116.6513	1.6539e-01	1.9015e+00
38	TAF115136	118.5717	119.3899	119.0286	2.0807e-01	1.9016e+00
39	TAF120136	127.3416	128.1548	127.7987	1.7697e-01	1.9022e+00
40	TAF125136	120.6380	121.8590	121.1772	2.6454e-01	1.9018e+00
41	TAF130136	122.2695	122.8829	122.5862	1.5488e-01	1.9019e+00
42	TAF120048	120.5239	121.3469	120.8434	1.9516e-01	1.9017e+00
43	TAF130048	123.1154	123.7293	123.4287	1.4959e-01	1.9019e+00
44	TAF120224	118.6367	119.3541	119.0117	1.9381e-01	1.9016e+00
45	TAF130224	120.4337	120.9478	120.7154	1.3888e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1400	2.0715e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.4863	1.1586e-01	1.9011e+00
48	TAI130048	135.5846	136.8995	136.2988	3.2056e-01	1.9030e+00
49	TAI130136	140.7588	141.5648	141.2044	2.2087e-01	1.9034e+00
50	TAI130224	141.9966	143.0049	142.4903	2.6429e-01	1.9035e+00
51	TAI130312	136.6844	137.4942	137.0629	2.1716e-01	1.9030e+00
52	TRR130000	75.1105	77.2230	76.1654	4.9963e-01	1.9000e+00
53	TSI000001	58.7616	59.5146	59.1683	1.8335e-01	1.9001e+00
54	TSI000002	88.3306	89.5877	89.0034	3.4653e-01	1.9002e+00
55	TSO000001	56.6740	57.6471	57.2731	2.0643e-01	1.9001e+00
56	TSO000002	64.2568	65.3271	64.7978	2.7399e-01	1.9000e+00
57	TAF020136	89.9366	91.0956	90.5370	2.5199e-01	1.9003e+00
58	TAF120312	118.6211	119.7491	119.2096	2.8002e-01	1.9016e+00
59	TAF130312	123.5764	124.4951	124.0075	1.9260e-01	1.9020e+00
60	EMPTY	1.1768	1.1865	1.1842	2.6543e-03	0.0000e+00
61	EMPTY	1.1865	1.1914	1.1906	1.8082e-03	0.0000e+00
62	EMPTY	1.1914	1.1963	1.1959	1.3381e-03	0.0000e+00
63	EMPTY	1.2012	1.2109	1.2062	1.2041e-03	0.0000e+00
64	EMPTY	0.6934	0.6982	0.6965	2.3675e-03	0.0000e+00
65	EMPTY	0.7129	0.7227	0.7180	1.3811e-03	0.0000e+00
66	EMPTY	0.7324	0.7373	0.7340	2.3008e-03	0.0000e+00
67	EMPTY	0.7520	0.7568	0.7539	2.4164e-03	0.0000e+00
68	EMPTY	0.7666	0.7715	0.7670	1.3381e-03	0.0000e+00
69	EMPTY	0.7813	0.7910	0.7861	9.8648e-04	0.0000e+00
70	EMPTY	0.8008	0.8008	0.8008	0.0000e+00	0.0000e+00
71	EMPTY	0.8203	0.8252	0.8234	2.3675e-03	0.0000e+00
72	EMPTY	0.8350	0.8398	0.8365	2.3008e-03	0.0000e+00
73	EMPTY	0.8545	0.8643	0.8579	2.4662e-03	0.0000e+00
74	EMPTY	0.8691	0.8740	0.8737	1.1714e-03	0.0000e+00
75	EMPTY	0.8887	0.8936	0.8918	2.3675e-03	0.0000e+00
76	EMPTY	0.9033	0.9082	0.9044	2.0432e-03	0.0000e+00
77	EMPTY	0.9229	0.9277	0.9238	1.9730e-03	0.0000e+00
78	EMPTY	0.9424	0.9473	0.9472	6.9053e-04	0.0000e+00
79	EMPTY	0.9668	0.9717	0.9689	2.4484e-03	0.0000e+00
80	PAN020136	0.3904	1.0007	0.7444	1.3852e-01	8.7000e-01
81	PAN050136	15.6071	16.8278	16.2113	2.7566e-01	1.6805e+00
82	PAN070136	12.4245	13.4163	12.8044	1.9948e-01	8.7059e-01
83	PAN080136	7.4065	8.0932	7.7315	1.7426e-01	8.7021e-01
84	PAN090136	4.4486	4.9064	4.6790	1.1273e-01	8.7008e-01
85	PAN100136	5.8909	6.5776	6.2571	1.2896e-01	8.7014e-01
86	PAN105136	2.1399	2.5977	2.3413	1.0196e-01	8.7002e-01
87	PAN110136	4.9849	5.4426	5.1909	1.1560e-01	8.7010e-01
88	PAN115136	3.9607	4.6474	4.2812	1.2896e-01	8.7007e-01
89	PAN120136	5.0773	5.6114	5.3642	1.3220e-01	8.7010e-01
90	PAN125136	1.9023	2.3600	2.1647	9.3960e-02	8.7002e-01
91	PAN130136	0.1050	0.4865	0.2164	8.6110e-02	8.7000e-01
92	PAN120048	5.6709	6.2812	5.9806	1.3296e-01	8.7013e-01
93	PAN130048	7.5005	7.9582	7.7156	1.1605e-01	8.7021e-01
94	PAN120224	6.7844	7.6236	7.1796	1.4919e-01	8.7019e-01
95	PAN130224	3.3557	4.1186	3.7494	1.5364e-01	8.7005e-01
96	PAN120312	4.7377	5.2718	5.0109	1.2340e-01	8.7009e-01
97	PAN130312	8.3983	8.8561	8.6135	1.0974e-01	8.7027e-01
98	PAB000136	39.8161	40.0908	40.0175	7.1037e-02	5.8856e-01
99	PAB100136	37.9419	38.1250	38.0399	4.1370e-02	5.8774e-01
100	PAB125136	37.2957	37.4789	37.3763	4.1934e-02	5.8748e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.5925	40.0808	39.7854	1.2597e-01	7.5657e-01
102	PRV000001	29.4842	29.7283	29.6527	6.4735e-02	7.5365e-01
103	PSR000001	36.5148	36.7589	36.6857	6.5249e-02	7.5559e-01
104	PFM000001	30.0222	30.7547	30.4049	1.9722e-01	5.0574e-01
105	PAN000136	65.9623	73.2866	69.8076	1.5749e+00	4.9231e+00
106	PFM000002	27.5689	27.5689	27.5689	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0195	0.0082	3.0309e-03	0.0000e+00
108	EMPTY	-10.0000	-4.1895	-8.1492	1.8431e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0052	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
112	VPW000001	101.6339	102.0245	101.8135	1.1049e-01	1.0145e+00
113	VPW000002	118.6561	119.2421	118.9764	1.1679e-01	1.0797e+00
114	VPW000003	147.0365	147.6225	147.2553	1.4029e-01	1.1986e+00
115	VPW000004	104.6687	104.8640	104.7391	9.4702e-02	1.0252e+00
116	VPW000005	139.2616	139.6522	139.4686	1.1443e-01	1.1646e+00
117	VPW000006	147.8703	148.2610	148.0382	1.1844e-01	1.2021e+00
118	IPW000001	543.5024	557.1689	551.6242	3.7907e+00	9.1979e+00
119	IPW000002	1298.4198	1308.1761	1302.6346	2.1721e+00	1.3096e+01
120	IPW000003	1320.1499	1333.7999	1326.9749	2.8477e+00	1.3248e+01
121	IPW000004	379.7044	381.6575	380.7981	5.7148e-01	3.6125e+00
122	IPW000005	253.5616	255.0263	253.9815	3.2729e-01	2.8330e+00
123	IPW000006	261.2681	263.7095	262.8206	4.0301e-01	2.8829e+00
124	EMPTY	-0.0244	-0.0098	-0.0176	3.5568e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0128	3.1023e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0134	3.6659e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	3.2057e-03	0.0000e+00
128	IHT000001	128.1325	131.0622	129.5934	6.1414e-01	4.2999e+00
129	IHT000002	131.9862	134.9158	133.3221	5.6270e-01	4.3113e+00
130	IHT000003	132.6998	135.2389	133.7115	5.2004e-01	4.3125e+00
131	IHT000004	130.9908	133.3346	131.8931	5.2924e-01	4.3069e+00
132	IHT000005	129.2668	131.6106	130.3566	5.4260e-01	4.3022e+00
133	IHT000006	124.1925	126.5362	125.3994	5.4916e-01	4.2875e+00
134	IHT000007	131.1899	133.9243	132.5141	5.5424e-01	4.3088e+00
135	IHT000008	129.7701	132.3092	131.0240	5.3972e-01	4.3043e+00
136	IHT000009	129.9542	132.6885	131.2627	6.0135e-01	4.3050e+00
137	IHT000010	-40.4935	-38.5404	-39.4232	5.5417e-01	4.1189e+00
138	IHT000011	130.1119	132.0650	131.1275	5.6221e-01	4.3046e+00
139	IHT000012	127.5315	129.8753	128.7738	6.1227e-01	4.2975e+00
140	IHT000013	91.6016	93.5547	92.6055	5.6083e-01	4.2033e+00
141	IHT000014	127.9522	129.9054	128.9014	5.2498e-01	4.2979e+00
142	IHT000015	95.0120	97.1604	96.1644	4.6897e-01	4.2113e+00
143	IHT000016	88.7169	90.8654	89.9045	4.6159e-01	4.1974e+00
144	IHT000017	105.8519	109.3675	107.8324	8.3427e-01	4.2394e+00
145	IHT000018	107.7449	109.8933	108.8231	5.1936e-01	4.2420e+00
146	IHT000019	104.2593	106.6031	105.2866	5.3497e-01	4.2330e+00
147	IHT000020	106.7833	108.9318	107.8966	5.4283e-01	4.2396e+00
148	IHT000021	-2.8132	0.3118	-1.2078	7.2897e-01	4.1000e+00
149	IHT000022	92.6645	95.0083	93.7661	5.7149e-01	4.2059e+00
150	IHT000023	104.9504	107.0989	105.8410	5.5686e-01	4.2344e+00
151	IHT000024	70.1585	72.1116	70.9671	5.0994e-01	4.1610e+00
152	IHT000025	105.3298	107.2829	106.2751	5.0434e-01	4.2355e+00
153	IHT000026	105.7167	108.2557	106.7167	5.1090e-01	4.2366e+00
154	IHT000027	90.3846	92.9237	91.3612	5.0378e-01	4.2006e+00
155	IHT000028	91.7255	95.0458	92.8818	6.5297e-01	4.2039e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4012	108.5262	106.4988	6.3978e-01	4.2361e+00
157	IHT000030	107.7937	110.1375	108.7938	5.8079e-01	4.2419e+00
158	IHT000031	106.2275	108.3759	107.1181	5.2372e-01	4.2376e+00
159	IHT000032	107.5233	110.0623	108.5350	6.1218e-01	4.2412e+00
160	IHT000033	107.5458	110.0849	108.4756	6.1328e-01	4.2411e+00
161	IHT000034	94.1331	96.4768	95.0823	5.1450e-01	4.2088e+00
162	IHT000035	124.5042	126.8480	125.3910	5.7482e-01	4.2875e+00
163	IHT000036	92.9950	95.1435	93.7568	5.2087e-01	4.2058e+00

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Velocity 1 = 0.008200 (ft/sec)

Velocity 2 = 0.000199 (ft/sec)

Pressure Drop = 0.007700 (psi)

Tsat in = 0.426880 (deg F) Tsat out = 0.518494 (deg F)

Phi inner = 0.889000 (kBtu/hr-ft2) Phi outer = 0.272896 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0255	0.0311
1	TRF000002	0.0802	0.0976
2	TFM000001	0.1737	0.1982
3	TIN000001	0.1074	0.1238
4	TRV000001	0.2366	0.2706
5	TSR000001	1.0220	0.9471
6	TAO020136	1.1515	1.7992
7	TAO050136	0.0593	0.0489
8	TAO070136	0.1048	0.0875
9	TAO080136	0.7463	0.7591
10	TAO090136	0.1231	0.0903
11	TAO100136	0.0347	0.0261
12	TAO105136	0.0182	0.0134
13	TAO110136	0.0806	0.0932
14	TAO115136	0.0991	0.0733
15	TAO120136	0.0019	0.0013
16	TAO125136	0.0650	0.0722
17	TAO130136	0.1061	0.0763
18	TAO120048	0.1025	0.1119
19	TAO130048	0.0022	0.0016
20	TAO120224	0.2032	0.1430
21	TAO130224	0.1948	0.1444
22	TAO120312	0.0505	0.0362
23	TAO130312	0.0344	0.0246
24	TRT020000	0.0186	0.0155
25	TRT070000	3.8600	4.1325
26	TRT100000	0.0661	0.0472
27	TRT120000	0.0427	0.0093
28	TRT125000	0.4109	0.4716
29	TRT130000	0.0985	0.0692
30	EMPTY	0.0184	0.0463
31	TAF050136	0.0805	0.0808
32	TAF070136	0.0189	0.0178
33	TAF080136	0.0468	0.0357
34	TAF090136	0.1534	0.1785
35	TAF100136	0.0392	0.0345
36	TAF105136	0.0260	0.0226
37	TAF110136	0.0263	0.0225
38	TAF115136	0.0676	0.0568
39	TAF120136	0.0664	0.0519
40	TAF125136	0.1434	0.1182
41	TAF130136	0.0430	0.0351
42	TAF120048	0.0847	0.0700
43	TAF130048	0.0630	0.0510
44	TAF120224	0.0636	0.0535
45	TAF130224	0.0759	0.0629

#	Name	Abs Diff	%Diff
46	EMPTY	0.0460	0.1207
47	EMPTY	0.0367	0.0930
48	TAI130048	0.0264	0.0194
49	TAI130136	0.1468	0.1041
50	TAI130224	0.0302	0.0212
51	TAI130312	0.0950	0.0694
52	TRR130000	0.5548	0.7231
53	TSI000001	0.2983	0.5067
54	TSI000002	0.8860	1.0055
55	TSO000001	0.1708	0.2991
56	TSO000002	0.1221	0.1888
57	TAF020136	0.1837	0.2025
58	TAF120312	0.1249	0.1047
59	TAF130312	0.0670	0.0540
60	EMPTY	0.0023	0.1938
61	EMPTY	0.0019	0.1593
62	EMPTY	0.0015	0.1253
63	EMPTY	0.0017	0.1407
64	EMPTY	0.0016	0.2292
65	EMPTY	0.0012	0.1669
66	EMPTY	0.0032	0.4341
67	EMPTY	0.0024	0.3173
68	EMPTY	0.0021	0.2730
69	EMPTY	0.0005	0.0636
70	EMPTY	0.0005	0.0624
71	EMPTY	0.0014	0.1697
72	EMPTY	0.0021	0.2504
73	EMPTY	0.0012	0.1397
74	EMPTY	0.0003	0.0343
75	EMPTY	0.0009	0.1008
76	EMPTY	0.0015	0.1656
77	EMPTY	0.0015	0.1621
78	EMPTY	0.0002	0.0211
79	EMPTY	0.0015	0.1546
80	PAN020136	0.0794	11 9398
81	PAN050136	0.2655	1.6650
82	PAN070136	0.0092	0.0718
83	PAN080136	0.0152	0.1970
84	PAN090136	0.1144	2.5062
85	PAN100136	0.0794	1.2531
86	PAN105136	0.1282	5.1913
87	PAN110136	0.1022	1.9308
88	PAN115136	0.3479	8.8450
89	PAN120136	0.0534	1.0055
90	PAN125136	0.1816	7.7398
91	PAN130136	0.2594	54.5187
92	PAN120048	0.1755	2.8508
93	PAN130048	0.0153	0.1979
94	PAN120224	0.1572	2.2385
95	PAN130224	0.1770	4.5079
96	PAN120312	0.1450	2.9799
97	PAN130312	0.1098	1.2587
98	PAB000136	0.2875	0.7133
99	PAB100136	0.3048	0.7949
100	PAB125136	0.3287	0.8718

Test: Aug17_33

dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.2734	0.6825
102	PRV000001	0.1367	0.4589
103	PSR000001	0.2832	0.7660
104	PFM000001	0.0348	0.1143
105	PAN000136	0.2106	0.3026
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0012	12.7660
108	EMPTY	2.2987	39.2907
109	EMPTY	0.0001	1.8868
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	40.0000
112	VPW000001	0.0078	0.0077
113	VPW000002	0.1953	0.1644
114	VPW000003	0.0429	0.0291
115	VPW000004	0.0586	0.0559
116	VPW000005	0.0156	0.0112
117	VPW000006	0.0547	0.0370
118	IPW000001	7.0675	1.2650
119	IPW000002	14.0100	1.0872
120	IPW000003	12.6747	0.9644
121	IPW000004	3.8575	1.0028
122	IPW000005	0.0292	0.0115
123	IPW000006	0.8594	0.3281
124	EMPTY	0.0003	1.7341
125	EMPTY	0.0012	10.3448
126	EMPTY	0.0001	0.7407
127	EMPTY	0.0007	4.6358
128	IHT000001	0.0352	0.0272
129	IHT000002	0.0742	0.0557
130	IHT000003	0.0899	0.0673
131	IHT000004	0.0664	0.0504
132	IHT000005	0.1055	0.0810
133	IHT000006	0.1093	0.0872
134	IHT000007	0.1132	0.0855
135	IHT000008	0.1133	0.0865
136	IHT000009	0.1601	0.1221
137	IHT000010	0.0937	0.2382
138	IHT000011	0.0508	0.0387
139	IHT000012	0.0313	0.0243
140	IHT000013	0.1015	0.1095
141	IHT000014	0.0586	0.0454
142	IHT000015	0.1210	0.1257
143	IHT000016	0.0469	0.0522
144	IHT000017	0.0351	0.0325
145	IHT000018	0.0664	0.0611
146	IHT000019	0.3359	0.3201
147	IHT000020	0.2187	0.2031
148	IHT000021	0.0664	5.2111
149	IHT000022	0.1445	0.1543
150	IHT000023	0.1953	0.1849
151	IHT000024	0.2734	0.3867
152	IHT000025	0.2422	0.2284
153	IHT000026	0.1993	0.1871
154	IHT000027	0.0743	0.0814
155	IHT000028	0.1250	0.1348

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#	Name	Abs Diff	%Diff
156	IHT000029	0.2265	0.2131
157	IHT000030	0.2266	0.2087
158	IHT000031	0.2226	0.2082
159	IHT000032	0.2891	0.2671
160	IHT000033	0.2774	0.2564
161	IHT000034	0.0195	0.0205
162	IHT000035	0.0899	0.0717
163	IHT000036	0.0508	0.0542

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Velocity 1 = 5.9726 (ft/sec) (+/- 4.9459 %)
Velocity 2 = 5.9442 (ft/sec) (+/- 2.3786 %)
Pressure drop = -3.7960 (psi)
Tsats in = 268.0205 (deg F) Tsats out = 273.0343 (deg F)
Phi inner = 100.3063 (kBtu/hr-ft2) (+/- 1.4142 %)
Phi outer = 100.8791 (kBtu/hr-ft2) (+/- 1.5416 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.7037	82.5519	82.1448	1.8596e-01	1.9001e+00
1	TRF000002	82.0492	82.8929	82.3783	1.4236e-01	1.9001e+00
2	TFM000001	86.4903	87.4347	86.9687	2.1643e-01	1.9002e+00
3	TIN000001	85.8374	86.4702	86.2046	1.3999e-01	1.9002e+00
4	TRV000001	86.6957	87.5349	87.1406	2.0488e-01	1.9002e+00
5	TSR000001	116.0894	117.5206	117.0458	3.0591e-01	1.9015e+00
6	TAO020136	70.6240	72.4366	71.4855	3.8764e-01	1.9000e+00
7	TAO050136	159.5021	160.4929	160.0456	2.2539e-01	1.9055e+00
8	TAO070136	160.8888	162.3835	161.7895	3.6227e-01	1.9057e+00
9	TAO080136	111.6785	112.6002	112.1161	2.3329e-01	1.9012e+00
10	TAO090136	188.4099	189.4775	189.0382	2.1781e-01	1.9095e+00
11	TAO100136	187.7821	189.0454	188.4117	2.5637e-01	1.9094e+00
12	TAO105136	193.0433	194.2099	193.6539	2.6837e-01	1.9103e+00
13	TAO110136	87.1273	87.8626	87.4057	1.4621e-01	1.9002e+00
14	TAO115136	193.7290	195.0865	194.3495	2.7711e-01	1.9104e+00
15	TAO120136	207.3302	207.9081	207.7189	1.3026e-01	1.9127e+00
16	TAO125136	121.0725	122.3989	121.6317	2.8872e-01	1.9018e+00
17	TAO130136	202.1464	202.7234	202.3944	1.5238e-01	1.9118e+00
18	TAO120048	93.8397	95.0945	94.4547	2.8515e-01	1.9004e+00
19	TAO130048	203.1192	203.8896	203.4935	1.5749e-01	1.9120e+00
20	TAO120224	205.5074	206.4700	206.0314	1.9834e-01	1.9124e+00
21	TAO130224	194.8657	196.0186	195.3865	2.6137e-01	1.9106e+00
22	TAO120312	200.6654	201.7284	201.2300	2.4473e-01	1.9116e+00
23	TAO130312	200.3021	200.9775	200.6380	1.5605e-01	1.9115e+00
24	TRT020000	152.8637	153.9644	153.3638	2.3831e-01	1.9047e+00
25	TRT070000	128.2968	129.3203	128.8983	2.2796e-01	1.9023e+00
26	TRT100000	196.6038	197.7635	197.2537	2.4604e-01	1.9109e+00
27	TRT120000	457.4058	457.8340	457.6318	8.7749e-02	1.9987e+00
28	TRT125000	87.8469	88.6829	88.3270	1.7294e-01	1.9002e+00
29	TRT130000	203.3254	203.9989	203.6384	1.5000e-01	1.9120e+00
30	EMPTY	39.1464	40.2940	39.8260	2.4953e-01	1.9011e+00
31	TAF050136	115.9606	116.8807	116.3943	2.2702e-01	1.9014e+00
32	TAF070136	128.2178	129.2324	128.8823	2.5480e-01	1.9023e+00
33	TAF080136	181.9106	182.7846	182.3293	2.0639e-01	1.9085e+00
34	TAF090136	86.1683	87.6391	86.8413	3.0373e-01	1.9002e+00
35	TAF100136	148.9178	150.0207	149.2953	2.1493e-01	1.9042e+00
36	TAF105136	152.8167	153.8066	153.3547	2.5106e-01	1.9047e+00
37	TAF110136	156.8927	157.8870	157.3984	1.8265e-01	1.9051e+00
38	TAF115136	161.8893	163.0767	162.4582	2.4446e-01	1.9058e+00
39	TAF120136	181.7771	182.9444	182.4589	2.7095e-01	1.9085e+00
40	TAF125136	168.0530	169.2293	168.6877	2.4263e-01	1.9065e+00
41	TAF130136	171.0747	171.7646	171.4722	1.7554e-01	1.9069e+00
42	TAF120048	164.5542	165.7487	165.2349	3.1610e-01	1.9061e+00
43	TAF130048	171.4785	172.6597	171.9591	2.4244e-01	1.9070e+00
44	TAF120224	162.6928	163.8797	163.2381	2.6083e-01	1.9058e+00
45	TAF130224	167.5071	168.4003	168.0626	2.0041e-01	1.9065e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1446	2.2159e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.7067	1.1509e-01	1.9011e+00
48	TAI130048	199.8369	201.2837	200.4770	3.2311e-01	1.9114e+00
49	TAI130136	206.8321	207.8870	207.1967	2.1037e-01	1.9126e+00
50	TAI130224	204.0180	205.2723	204.6083	3.1412e-01	1.9122e+00
51	TAI130312	198.8592	200.4065	199.6607	2.9304e-01	1.9113e+00
52	TRR130000	89.3964	91.5885	90.5865	6.0131e-01	1.9003e+00
53	TSI000001	59.9411	60.9065	60.3626	1.8995e-01	1.9001e+00
54	TSI000002	88.3316	89.6930	89.0311	3.5303e-01	1.9002e+00
55	TSO000001	57.4312	58.2961	57.8290	1.9467e-01	1.9001e+00
56	TSO000002	69.8102	70.5576	70.1097	1.9634e-01	1.9000e+00
57	TAF020136	94.8837	95.8298	95.4429	2.2794e-01	1.9004e+00
58	TAF120312	162.2697	163.9568	163.1948	3.8137e-01	1.9058e+00
59	TAF130312	173.9467	175.0263	174.4457	2.7238e-01	1.9073e+00
60	EMPTY	2.3926	2.4072	2.3992	3.5238e-03	0.0000e+00
61	EMPTY	2.3779	2.4023	2.3939	3.4229e-03	0.0000e+00
62	EMPTY	2.3828	2.3926	2.3882	2.0337e-03	0.0000e+00
63	EMPTY	2.3779	2.3926	2.3894	2.8946e-03	0.0000e+00
64	EMPTY	1.2109	1.2207	1.2161	1.5314e-03	0.0000e+00
65	EMPTY	1.2354	1.2402	1.2356	1.1714e-03	0.0000e+00
66	EMPTY	1.2451	1.2500	1.2484	2.3008e-03	0.0000e+00
67	EMPTY	1.2598	1.2646	1.2646	6.9053e-04	0.0000e+00
68	EMPTY	1.2695	1.2744	1.2742	9.6655e-04	0.0000e+00
69	EMPTY	1.2842	1.2939	1.2891	9.8648e-04	0.0000e+00
70	EMPTY	1.2988	1.3037	1.2995	1.7115e-03	0.0000e+00
71	EMPTY	1.3184	1.3232	1.3188	1.4797e-03	0.0000e+00
72	EMPTY	1.3281	1.3330	1.3300	2.3941e-03	0.0000e+00
73	EMPTY	1.3428	1.3525	1.3473	1.9331e-03	0.0000e+00
74	EMPTY	1.3574	1.3623	1.3606	2.3365e-03	0.0000e+00
75	EMPTY	1.3721	1.3770	1.3747	2.4583e-03	0.0000e+00
76	EMPTY	1.3818	1.3867	1.3862	1.4797e-03	0.0000e+00
77	EMPTY	1.4014	1.4063	1.4015	6.9053e-04	0.0000e+00
78	EMPTY	1.4209	1.4258	1.4211	9.6655e-04	0.0000e+00
79	EMPTY	1.4404	1.4404	1.4404	0.0000e+00	0.0000e+00
80	PAN020136	-15.0210	-14.7158	-14.8531	7.3922e-02	8.7079e-01
81	PAN050136	-25.5917	-25.1339	-25.4208	1.2948e-01	1.6812e+00
82	PAN070136	-16.6435	-16.2621	-16.4787	9.4213e-02	8.7097e-01
83	PAN080136	-8.2337	-7.9286	-8.1178	8.4761e-02	8.7024e-01
84	PAN090136	-8.5976	-8.3688	-8.4786	5.8001e-02	8.7026e-01
85	PAN100136	-8.2998	-7.9946	-8.1365	7.3938e-02	8.7024e-01
86	PAN105136	-4.1162	-3.8873	-4.0475	6.2135e-02	8.7006e-01
87	PAN110136	-3.8652	-3.6363	-3.7828	6.6903e-02	8.7005e-01
88	PAN115136	-4.2027	-3.8975	-4.0135	7.2690e-02	8.7006e-01
89	PAN120136	-3.6965	-3.3913	-3.5363	6.4018e-02	8.7004e-01
90	PAN125136	-4.3538	-4.0487	-4.2104	6.4738e-02	8.7006e-01
91	PAN130136	-4.7778	-4.4726	-4.6328	6.9362e-02	8.7008e-01
92	PAN120048	-8.9013	-8.5961	-8.7212	7.9735e-02	8.7027e-01
93	PAN130048	-7.9872	-7.6820	-7.7934	8.4719e-02	8.7022e-01
94	PAN120224	-7.5589	-7.2537	-7.4353	7.8428e-02	8.7020e-01
95	PAN130224	-8.9276	-8.6225	-8.7415	7.7315e-02	8.7027e-01
96	PAN120312	-8.2322	-7.9271	-8.0629	7.5966e-02	8.7023e-01
97	PAN130312	-8.0049	-7.6997	-7.8065	8.0092e-02	8.7022e-01
98	PAB000136	40.3196	40.5485	40.4395	5.6927e-02	5.8875e-01
99	PAB100136	43.1146	43.2977	43.2044	5.7726e-02	5.8997e-01
100	PAB125136	43.8418	44.0706	43.9626	5.8315e-02	5.9032e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0808	40.4470	40.2444	9.0982e-02	7.5672e-01
102	PRV000001	29.4842	29.8504	29.6478	6.8033e-02	7.5365e-01
103	PSR000001	43.9611	44.2052	44.0807	5.2258e-02	7.5805e-01
104	PFM000001	5.1199	5.4861	5.3707	9.0254e-02	5.0018e-01
105	PAN000136	-106.1568	-103.8680	-105.0948	5.8080e-01	4.9270e+00
106	PFM000002	5.2182	5.3692	5.3189	3.2161e-02	2.0044e-01
107	EMPTY	-0.0049	0.0049	0.0045	1.9331e-03	0.0000e+00
108	EMPTY	-10.0000	-1.7725	-7.8990	1.7853e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0030	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	101.8292	102.2198	101.9776	1.2823e-01	1.0151e+00
113	VPW000002	118.6561	119.4374	119.1171	1.2944e-01	1.0802e+00
114	VPW000003	147.4271	148.0131	147.6225	1.2478e-01	1.2003e+00
115	VPW000004	104.6687	105.0593	104.9266	1.0763e-01	1.0259e+00
116	VPW000005	139.4569	140.0428	139.7968	1.2974e-01	1.1660e+00
117	VPW000006	148.0657	148.6516	148.4249	1.5960e-01	1.2038e+00
118	IPW000001	555.2165	561.0735	558.4963	1.7391e+00	9.2237e+00
119	IPW000002	1276.9558	1306.2249	1295.8440	6.9009e+00	1.3054e+01
120	IPW000003	1310.3999	1318.1998	1314.6122	1.8629e+00	1.3171e+01
121	IPW000004	382.1458	384.5872	383.4349	5.8991e-01	3.6298e+00
122	IPW000005	253.0734	254.5381	253.9326	3.6323e-01	2.8327e+00
123	IPW000006	260.7798	262.7329	261.8245	4.3011e-01	2.8772e+00
124	EMPTY	-0.0244	-0.0098	-0.0188	3.1752e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.8659e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0146	3.8206e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0149	3.4751e-03	0.0000e+00
128	IHT000001	128.1325	130.4762	129.3082	5.7248e-01	4.2991e+00
129	IHT000002	131.7908	134.3299	133.0175	5.4539e-01	4.3104e+00
130	IHT000003	132.3092	134.6530	133.4458	5.5480e-01	4.3117e+00
131	IHT000004	130.6002	132.9440	131.6353	5.4996e-01	4.3061e+00
132	IHT000005	129.0715	131.4153	130.0480	5.1750e-01	4.3013e+00
133	IHT000006	124.1925	126.5362	125.1143	5.1756e-01	4.2866e+00
134	IHT000007	131.1899	133.5337	132.2368	5.3198e-01	4.3080e+00
135	IHT000008	129.5748	131.7233	130.6958	4.8458e-01	4.3033e+00
136	IHT000009	129.9542	131.9073	130.9307	5.1599e-01	4.3040e+00
137	IHT000010	-40.6889	-38.3451	-39.6068	5.6111e-01	4.1191e+00
138	IHT000011	129.9166	132.4557	130.9947	5.4282e-01	4.3042e+00
139	IHT000012	127.7269	130.2659	128.6136	5.2231e-01	4.2970e+00
140	IHT000013	91.4003	93.9453	92.4336	5.1872e-01	4.2029e+00
141	IHT000014	127.7569	130.2960	128.7178	5.7702e-01	4.2973e+00
142	IHT000015	95.0120	97.3558	95.9690	5.7487e-01	4.2108e+00
143	IHT000016	88.7169	90.8654	89.6427	5.5777e-01	4.1969e+00
144	IHT000017	106.0472	109.5628	107.4457	8.7911e-01	4.2384e+00
145	IHT000018	107.5496	110.4793	108.5301	6.6321e-01	4.2412e+00
146	IHT000019	103.6734	106.6031	105.0054	5.9279e-01	4.2323e+00
147	IHT000020	106.3927	109.1271	107.6505	5.6656e-01	4.2390e+00
148	IHT000021	-2.8132	0.3118	-1.1218	6.5151e-01	4.1000e+00
149	IHT000022	92.2739	94.8130	93.5474	5.4568e-01	4.2054e+00
150	IHT000023	104.3645	106.7083	105.6105	5.0976e-01	4.2338e+00
151	IHT000024	69.5726	71.7210	70.6624	4.4484e-01	4.1604e+00
152	IHT000025	104.9392	106.8923	106.0055	4.6052e-01	4.2348e+00
153	IHT000026	105.3260	107.2792	106.4745	4.7783e-01	4.2360e+00
154	IHT000027	89.9940	92.5330	91.1776	4.8070e-01	4.2002e+00
155	IHT000028	91.1396	93.8739	92.4990	6.1758e-01	4.2030e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8152	107.7449	106.1473	6.2476e-01	4.2352e+00
157	IHT000030	107.2078	110.1375	108.4344	6.3386e-01	4.2410e+00
158	IHT000031	105.4462	108.3759	106.7548	6.3165e-01	4.2367e+00
159	IHT000032	106.7420	109.6717	108.1053	5.9515e-01	4.2401e+00
160	IHT000033	106.7646	109.4990	108.0498	5.7736e-01	4.2400e+00
161	IHT000034	93.5472	95.6956	94.7620	5.1037e-01	4.2081e+00
162	IHT000035	123.9183	126.2620	125.0980	5.2342e-01	4.2866e+00
163	IHT000036	92.4091	94.3622	93.3974	4.5747e-01	4.2050e+00

Velocity 1 = 5.9597 (ft/sec) (+/- 4.9654 %)
 Velocity 2 = 5.9161 (ft/sec) (+/- 2.3903 %)
 Pressure drop = -3.8202 (psi)
 Tsat in = 268.0772 (deg F) Tsat out = 273.1173 (deg F)
 Phi inner = 101.4482 (kBtu/hr-ft2) (+/- 1.4110 %)
 Phi outer = 100.6779 (kBtu/hr-ft2) (+/- 1.5439 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.9158	82.5519	82.1957	1.7370e-01	1.9001e+00
1	TRF000002	82.0492	82.6820	82.3994	1.4520e-01	1.9001e+00
2	TFM000001	86.5950	87.5404	87.1430	2.0487e-01	1.9002e+00
3	TIN000001	86.0482	86.7864	86.3121	1.4790e-01	1.9002e+00
4	TRV000001	86.7999	87.7430	87.3145	2.2640e-01	1.9002e+00
5	TSR000001	118.3337	119.4588	118.8519	2.5313e-01	1.9016e+00
6	TAO020136	72.3292	74.0339	73.1711	4.0268e-01	1.9000e+00
7	TAO050136	160.4892	161.5784	161.1839	2.1738e-01	1.9056e+00
8	TAO070136	160.9885	162.6818	161.9668	3.5297e-01	1.9057e+00
9	TAO080136	110.5514	111.4764	110.9234	2.5119e-01	1.9011e+00
10	TAO090136	189.2814	190.1571	189.8861	1.9953e-01	1.9097e+00
11	TAO100136	188.9471	190.0168	189.3770	2.3068e-01	1.9096e+00
12	TAO105136	194.3057	195.1792	194.7584	2.3661e-01	1.9105e+00
13	TAO110136	87.9600	88.6937	88.3608	1.6046e-01	1.9002e+00
14	TAO115136	194.8917	195.8609	195.3826	2.5099e-01	1.9106e+00
15	TAO120136	208.0991	209.0596	208.6004	2.2907e-01	1.9129e+00
16	TAO125136	121.2771	122.6026	122.0172	2.9052e-01	1.9018e+00
17	TAO130136	202.8134	203.5794	203.2853	1.7550e-01	1.9119e+00
18	TAO120048	95.6138	97.1781	96.4797	3.5761e-01	1.9005e+00
19	TAO130048	203.8869	204.7532	204.3739	1.5357e-01	1.9121e+00
20	TAO120224	206.6613	207.4299	207.0398	1.7839e-01	1.9126e+00
21	TAO130224	195.7271	196.5934	196.2131	2.1316e-01	1.9107e+00
22	TAO120312	201.8239	202.5005	202.1583	1.8214e-01	1.9117e+00
23	TAO130312	201.1675	201.8436	201.5057	1.6782e-01	1.9116e+00
24	TRT020000	153.3642	154.5636	153.9059	2.7109e-01	1.9047e+00
25	TRT070000	124.3994	125.1180	124.7301	1.6487e-01	1.9020e+00
26	TRT100000	197.5691	198.4371	197.9960	2.0644e-01	1.9110e+00
27	TRT120000	457.4062	457.8340	457.6609	9.5432e-02	1.9987e+00
28	TRT125000	89.3042	90.2466	89.8715	1.9119e-01	1.9003e+00
29	TRT130000	203.9988	204.6720	204.3777	1.4612e-01	1.9121e+00
30	EMPTY	39.3761	40.2940	39.8489	2.3828e-01	1.9011e+00
31	TAF050136	116.3679	117.3923	116.8175	2.2554e-01	1.9015e+00
32	TAF070136	129.3287	130.2421	129.8139	2.3057e-01	1.9024e+00
33	TAF080136	183.0724	183.8512	183.4598	1.8052e-01	1.9087e+00
34	TAF090136	87.3232	88.3730	87.9218	2.6997e-01	1.9002e+00
35	TAF100136	149.7197	150.8227	150.3274	2.1843e-01	1.9043e+00
36	TAF105136	154.0995	155.2901	154.5714	2.7497e-01	1.9048e+00
37	TAF110136	157.6862	158.6794	158.3241	2.1429e-01	1.9052e+00
38	TAF115136	162.5801	163.5704	163.1009	2.4714e-01	1.9058e+00
39	TAF120136	182.8456	184.3064	183.5297	3.1464e-01	1.9087e+00
40	TAF125136	168.8358	170.5010	169.6368	3.6691e-01	1.9067e+00
41	TAF130136	171.7618	172.5493	172.1970	2.1037e-01	1.9070e+00
42	TAF120048	165.3502	166.5440	165.9692	2.7201e-01	1.9062e+00
43	TAF130048	172.2650	173.3482	172.7516	1.9924e-01	1.9071e+00
44	TAF120224	163.5815	164.4727	163.9958	2.6179e-01	1.9059e+00
45	TAF130224	168.3998	169.2925	168.7948	1.9259e-01	1.9066e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1583	2.2874e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.7480	1.1254e-01	1.9011e+00
48	TAI130048	200.7040	202.2468	201.4046	3.5208e-01	1.9116e+00
49	TAI130136	207.5983	208.6527	208.1640	2.3430e-01	1.9128e+00
50	TAI130224	204.9827	206.3322	205.6284	3.4631e-01	1.9124e+00
51	TAI130312	200.1168	201.1801	200.7101	2.7877e-01	1.9115e+00
52	TRR130000	86.3652	87.9350	87.2167	3.6378e-01	1.9002e+00
53	TSI000001	60.0485	60.6934	60.3650	1.7412e-01	1.9001e+00
54	TSI000002	88.1211	89.7979	89.2092	3.4444e-01	1.9002e+00
55	TSO000001	57.3230	58.1879	57.7186	2.2234e-01	1.9001e+00
56	TSO000002	69.3849	70.6641	70.2057	2.2413e-01	1.9000e+00
57	TAF020136	95.2004	96.2497	95.8145	2.6817e-01	1.9004e+00
58	TAF120312	163.1631	164.5501	163.8628	3.5608e-01	1.9059e+00
59	TAF130312	174.7309	175.8104	175.2519	2.5854e-01	1.9074e+00
60	EMPTY	2.4121	2.4268	2.4198	3.4300e-03	0.0000e+00
61	EMPTY	2.4121	2.4219	2.4146	3.1583e-03	0.0000e+00
62	EMPTY	2.4072	2.4170	2.4089	2.5362e-03	0.0000e+00
63	EMPTY	2.4072	2.4121	2.4101	2.4344e-03	0.0000e+00
64	EMPTY	1.2256	1.2305	1.2266	1.9730e-03	0.0000e+00
65	EMPTY	1.2451	1.2500	1.2452	6.9053e-04	0.0000e+00
66	EMPTY	1.2451	1.2598	1.2576	2.9856e-03	0.0000e+00
67	EMPTY	1.2744	1.2793	1.2745	6.9053e-04	0.0000e+00
68	EMPTY	1.2793	1.2891	1.2843	1.2041e-03	0.0000e+00
69	EMPTY	1.2939	1.3037	1.2997	2.1364e-03	0.0000e+00
70	EMPTY	1.3086	1.3135	1.3108	2.4583e-03	0.0000e+00
71	EMPTY	1.3232	1.3330	1.3292	2.2689e-03	0.0000e+00
72	EMPTY	1.3379	1.3428	1.3404	2.4642e-03	0.0000e+00
73	EMPTY	1.3525	1.3623	1.3577	1.5314e-03	0.0000e+00
74	EMPTY	1.3672	1.3770	1.3696	2.6562e-03	0.0000e+00
75	EMPTY	1.3818	1.3916	1.3854	2.4244e-03	0.0000e+00
76	EMPTY	1.3916	1.3965	1.3960	1.4797e-03	0.0000e+00
77	EMPTY	1.4111	1.4111	1.4111	0.0000e+00	0.0000e+00
78	EMPTY	1.4258	1.4453	1.4309	2.1970e-03	0.0000e+00
79	EMPTY	1.4453	1.4502	1.4501	6.9053e-04	0.0000e+00
80	PAN020136	-15.0973	-14.7921	-14.9172	8.1211e-02	8.7080e-01
81	PAN050136	-25.8968	-25.2865	-25.6100	1.5302e-01	1.6812e+00
82	PAN070136	-16.7961	-16.4146	-16.5901	8.1925e-02	8.7099e-01
83	PAN080136	-8.3100	-8.0049	-8.1574	8.3005e-02	8.7024e-01
84	PAN090136	-8.6739	-8.3688	-8.5046	7.7514e-02	8.7026e-01
85	PAN100136	-8.2998	-8.0709	-8.1884	5.6022e-02	8.7024e-01
86	PAN105136	-4.1925	-3.8873	-4.0719	5.9876e-02	8.7006e-01
87	PAN110136	-3.9415	-3.7126	-3.7828	7.3664e-02	8.7005e-01
88	PAN115136	-4.1264	-3.8975	-3.9998	6.4682e-02	8.7006e-01
89	PAN120136	-3.7728	-3.4676	-3.6019	6.9891e-02	8.7005e-01
90	PAN125136	-4.3538	-4.1250	-4.2928	6.1655e-02	8.7007e-01
91	PAN130136	-4.7015	-4.4726	-4.6038	6.1732e-02	8.7008e-01
92	PAN120048	-8.9013	-8.5961	-8.7487	7.3922e-02	8.7027e-01
93	PAN130048	-7.9872	-7.6820	-7.8270	8.4775e-02	8.7022e-01
94	PAN120224	-7.6352	-7.2537	-7.5009	7.4816e-02	8.7020e-01
95	PAN130224	-8.9276	-8.6225	-8.7567	7.3211e-02	8.7028e-01
96	PAN120312	-8.3085	-7.8508	-8.0857	9.7290e-02	8.7023e-01
97	PAN130312	-8.0049	-7.6997	-7.8508	8.0815e-02	8.7022e-01
98	PAE000136	40.4112	40.5943	40.4780	4.9120e-02	5.8876e-01
99	PAB100136	43.1604	43.3435	43.2456	4.6250e-02	5.8999e-01
100	PAB125136	43.9333	44.0706	44.0231	4.3339e-02	5.9035e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2028	40.5690	40.3982	7.3986e-02	7.5677e-01
102	PRV000001	29.4842	29.7283	29.5404	6.6221e-02	7.5363e-01
103	PSR000001	44.0831	44.2052	44.1539	6.0861e-02	7.5808e-01
104	PFM000001	5.2114	5.4861	5.3469	7.4539e-02	5.0018e-01
105	PAN000136	-106.6146	-104.7835	-105.7631	5.7017e-01	4.9271e+00
106	PFM000002	5.2014	5.3692	5.2679	3.7284e-02	2.0043e-01
107	EMPTY	-0.0049	0.0049	0.0041	2.4878e-03	0.0000e+00
108	EMPTY	-10.0000	-5.4639	-7.2762	1.5438e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0032	2.3365e-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	101.8292	102.6104	102.0479	1.8356e-01	1.0154e+00
113	VPW000002	118.8514	119.6327	119.0897	1.2658e-01	1.0801e+00
114	VPW000003	147.4271	147.8178	147.6030	1.2001e-01	1.2002e+00
115	VPW000004	104.6687	105.2546	104.9461	1.2534e-01	1.0260e+00
116	VPW000005	139.6522	140.0428	139.7929	1.1864e-01	1.1660e+00
117	VPW000006	148.2610	148.8469	148.5577	1.5902e-01	1.2044e+00
118	IPW000001	533.7407	547.4072	539.8321	3.2678e+00	9.1541e+00
119	IPW000002	1308.1761	1319.8837	1311.5323	3.5923e+00	1.3152e+01
120	IPW000003	1329.8999	1335.7499	1332.1620	1.4929e+00	1.3280e+01
121	IPW000004	376.2864	380.6809	378.2395	1.4863e+00	3.5956e+00
122	IPW000005	253.5616	254.5381	253.9229	3.3898e-01	2.8327e+00
123	IPW000006	261.7563	263.2212	262.1761	3.4187e-01	2.8792e+00
124	EMPTY	-0.0244	-0.0098	-0.0177	3.6765e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0116	3.5417e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0128	3.8066e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0141	3.0628e-03	0.0000e+00
128	IHT000001	128.1325	130.8669	129.2770	6.4839e-01	4.2990e+00
129	IHT000002	131.9862	134.1346	132.9393	6.1592e-01	4.3101e+00
130	IHT000003	132.5045	134.6530	133.4224	5.9745e-01	4.3116e+00
131	IHT000004	130.6002	132.9440	131.6314	6.3139e-01	4.3061e+00
132	IHT000005	129.0715	131.2199	130.1261	5.9843e-01	4.3015e+00
133	IHT000006	123.9971	126.5362	125.0987	5.6739e-01	4.2866e+00
134	IHT000007	131.1899	133.7290	132.2720	5.8555e-01	4.3081e+00
135	IHT000008	129.7701	131.9186	130.7388	5.6629e-01	4.3034e+00
136	IHT000009	129.9542	131.9073	130.9346	5.2570e-01	4.3040e+00
137	IHT000010	-40.6889	-37.9545	-39.6107	6.2045e-01	4.1191e+00
138	IHT000011	130.3072	132.6510	131.1040	5.6198e-01	4.3045e+00
139	IHT000012	127.9222	130.0706	128.7581	5.4966e-01	4.2974e+00
140	IHT000013	91.4063	93.5547	92.4883	5.0718e-01	4.2030e+00
141	IHT000014	127.7569	129.9054	128.8038	5.2164e-01	4.2976e+00
142	IHT000015	95.0120	97.1604	96.0628	5.3363e-01	4.2110e+00
143	IHT000016	88.7169	90.8654	89.7482	5.2503e-01	4.1971e+00
144	IHT000017	106.0472	110.1488	107.9105	7.9037e-01	4.2396e+00
145	IHT000018	107.7449	110.4793	108.6707	6.4090e-01	4.2416e+00
146	IHT000019	103.8687	106.0171	104.8960	4.9096e-01	4.2321e+00
147	IHT000020	106.3927	108.7365	107.6037	5.0223e-01	4.2389e+00
148	IHT000021	-2.6179	-0.0789	-1.1922	5.8826e-01	4.1000e+00
149	IHT000022	92.6645	94.6176	93.5239	4.4817e-01	4.2053e+00
150	IHT000023	104.5598	106.5129	105.5598	4.3340e-01	4.2337e+00
151	IHT000024	69.7679	71.5257	70.6116	4.3663e-01	4.1604e+00
152	IHT000025	105.1345	106.6970	105.9587	4.3636e-01	4.2347e+00
153	IHT000026	105.5213	107.4745	106.4237	4.5829e-01	4.2359e+00
154	IHT000027	90.1893	92.3377	91.1190	4.6111e-01	4.2000e+00
155	IHT000028	91.5302	94.2646	92.6630	6.0746e-01	4.2034e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	105.2058	108.1355	106.2527	6.2858e-01	4.2354e+00
157	IHT0000030	107.4031	110.5281	108.5594	6.3484e-01	4.2413e+00
158	IHT0000031	105.6415	108.1806	106.8330	5.8826e-01	4.2369e+00
159	IHT0000032	106.9373	109.4764	108.1131	5.6702e-01	4.2401e+00
160	IHT0000033	106.9599	109.3036	108.0693	5.4023e-01	4.2400e+00
161	IHT0000034	93.7425	96.0862	94.8089	4.3621e-01	4.2082e+00
162	IHT0000035	124.3089	126.4573	125.1019	4.4888e-01	4.2866e+00
163	IHT0000036	92.6044	94.7528	93.4599	4.7661e-01	4.2052e+00

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Velocity 1 = 0.012900 (ft/sec)

Velocity 2 = 0.028100 (ft/sec)

Pressure Drop = 0.024200 (psi)

Tsat in = 0.056702 (deg F) Tsat out = 0.083008 (deg F)

Phi inner = 1.141899 (kBtu/hr-ft2) Phi outer = 0.201195 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0509	0.0620
1	TRF000002	0.0211	0.0256
2	TFM000001	0.1743	0.2004
3	TIN000001	0.1075	0.1247
4	TRV000001	0.1739	0.1996
5	TSR000001	1.8061	1.5431
6	TAO020136	1.6856	2.3580
7	TAO050136	1.1383	0.7112
8	TAO070136	0.1773	0.1096
9	TAO080136	1.1927	1.0638
10	TAO090136	0.8479	0.4485
11	TAO100136	0.9653	0.5123
12	TAO105136	1.1045	0.5704
13	TAO110136	0.9551	1.0927
14	TAO115136	1.0331	0.5316
15	TAO120136	0.8815	0.4244
16	TAO125136	0.3855	0.3169
17	TAO130136	0.8909	0.4402
18	TAO120048	2.0250	2.1439
19	TAO130048	0.8804	0.4326
20	TAO120224	1.0084	0.4894
21	TAO130224	0.8266	0.4231
22	TAO120312	0.9283	0.4613
23	TAO130312	0.8677	0.4325
24	TRT020000	0.5421	0.3535
25	TRT070000	4.1682	3.2337
26	TRT100000	0.7423	0.3763
27	TRT120000	0.0291	0.0064
28	TRT125000	1.5445	1.7486
29	TRT130000	0.7393	0.3630
30	EMPTY	0.0229	0.0575
31	TAF050136	0.4232	0.3636
32	TAF070136	0.9316	0.7228
33	TAF080136	1.1305	0.6200
34	TAF090136	1.0805	1.2442
35	TAF100136	1.0321	0.6913
36	TAF105136	1.2167	0.7934
37	TAF110136	0.9257	0.5881
38	TAF115136	0.6427	0.3956
39	TAF120136	1.0708	0.5869
40	TAF125136	0.9491	0.5626
41	TAF130136	0.7248	0.4227
42	TAF120048	0.7343	0.4444
43	TAF130048	0.7925	0.4609
44	TAF120224	0.7577	0.4642
45	TAF130224	0.7322	0.4357

#	Name	Abs Diff	%Diff
46	EMPTY	0.0137	0.0359
47	EMPTY	0.0413	0.1040
48	TAI130048	0.9276	0.4627
49	TAI130136	0.9673	0.4669
50	TAI130224	1.0201	0.4986
51	TAI130312	1.0494	0.5256
52	TRR130000	3.3698	3.7200
53	TSI000001	0.0024	0.0040
54	TSI000002	0.1781	0.2000
55	TSO000001	0.1104	0.1909
56	TSO000002	0.0960	0.1369
57	TAF020136	0.3716	0.3893
58	TAF120312	0.6680	0.4093
59	TAF130312	0.8062	0.4622
60	EMPTY	0.0206	0.8586
61	EMPTY	0.0207	0.8647
62	EMPTY	0.0207	0.8668
63	EMPTY	0.0207	0.8663
64	EMPTY	0.0105	0.8634
65	EMPTY	0.0096	0.7770
66	EMPTY	0.0092	0.7369
67	EMPTY	0.0099	0.7829
68	EMPTY	0.0101	0.7927
69	EMPTY	0.0106	0.8223
70	EMPTY	0.0113	0.8696
71	EMPTY	0.0104	0.7886
72	EMPTY	0.0104	0.7820
73	EMPTY	0.0104	0.7719
74	EMPTY	0.0090	0.6615
75	EMPTY	0.0107	0.7784
76	EMPTY	0.0098	0.7070
77	EMPTY	0.0096	0.6850
78	EMPTY	0.0098	0.6896
79	EMPTY	0.0097	0.6734
80	PAN020136	0.0641	0.4316
81	PAN050136	0.1892	0.7443
82	PAN070136	0.1114	0.6760
83	PAN080136	0.0396	0.4878
84	PAN090136	0.0260	0.3067
85	PAN100136	0.0519	0.6379
86	PAN105136	0.0244	0.6028
87	PAN110136	0.0000	0.0000
88	PAN115136	0.0137	0.3414
89	PAN120136	0.0656	1.8551
90	PAN125136	0.0824	1.9571
91	PAN130136	0.0290	0.6260
92	PAN120048	0.0275	0.3153
93	PAN130048	0.0336	0.4311
94	PAN120224	0.0656	0.8823
95	PAN130224	0.0152	0.1739
96	PAN120312	0.0228	0.2828
97	PAN130312	0.0443	0.5675
98	PAB000136	0.0385	0.0952
99	PAB100136	0.0412	0.0954
100	PAB125136	0.0605	0.1376

#	Name	Abs Diff	%Diff
101	PIN000001	0.1538	0.3822
102	PRV000001	0.1074	0.3623
103	PSR000001	0.0732	0.1661
104	PFM000001	0.0238	0.4431
105	PAN000136	0.6683	0.6359
106	PFM000002	0.0510	0.9588
107	EMPTY	0.0004	8.8889
108	EMPTY	0.6228	7.8845
109	EMPTY	0.0002	6.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0703	0.0689
113	VPW000002	0.0274	0.0230
114	VPW000003	0.0195	0.0132
115	VPW000004	0.0195	0.0186
116	VPW000005	0.0039	0.0028
117	VPW000006	0.1328	0.0895
118	IPW000001	18.6642	3.3419
119	IPW000002	15.6884	1.2107
120	IPW000003	17.5498	1.3350
121	IPW000004	5.1954	1.3550
122	IPW000005	0.0097	0.0038
123	IPW000006	0.3516	0.1343
124	EMPTY	0.0011	5.8511
125	EMPTY	0.0015	11.4504
126	EMPTY	0.0018	12.3288
127	EMPTY	0.0008	5.3691
128	IHT000001	0.0312	0.0241
129	IHT000002	0.0782	0.0588
130	IHT000003	0.0234	0.0175
131	IHT000004	0.0039	0.0030
132	IHT000005	0.0781	0.0601
133	IHT000006	0.0156	0.0125
134	IHT000007	0.0352	0.0266
135	IHT000008	0.0430	0.0329
136	IHT000009	0.0039	0.0030
137	IHT000010	0.0039	0.0098
138	IHT000011	0.1093	0.0834
139	IHT000012	0.1445	0.1124
140	IHT000013	0.0547	0.0592
141	IHT000014	0.0860	0.0668
142	IHT000015	0.0938	0.0977
143	IHT000016	0.1055	0.1177
144	IHT000017	0.4648	0.4326
145	IHT000018	0.1406	0.1296
146	IHT000019	0.1094	0.1042
147	IHT000020	0.0468	0.0435
148	IHT000021	0.0704	6.2756
149	IHT000022	0.0235	0.0251
150	IHT000023	0.0507	0.0480
151	IHT000024	0.0508	0.0719
152	IHT000025	0.0468	0.0441
153	IHT000026	0.0508	0.0477
154	IHT000027	0.0586	0.0643
155	IHT000028	0.1640	0.1773

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1054	0.0993
157	IHT000030	0.1250	0.1153
158	IHT000031	0.0782	0.0733
159	IHT000032	0.0078	0.0072
160	IHT000033	0.0195	0.0180
161	IHT000034	0.0469	0.0495
162	IHT000035	0.0039	0.0031
163	IHT000036	0.0625	0.0669

Velocity 1 = 3.9095 (ft/sec) (+/- 11.1709 %)
Velocity 2 = 3.8983 (ft/sec) (+/- 4.3350 %)
Pressure drop = -4.6912 (psi)
Tsats in = 267.7674 (deg F) Tsats out = 274.0140 (deg F)
Phi inner = 100.9487 (kBtu/hr-ft2) (+/- 1.4125 %)
Phi outer = 101.3060 (kBtu/hr-ft2) (+/- 1.5410 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.9158	82.7639	82.3654	1.8983e-01	1.9001e+00
1	TRF000002	82.2602	82.8929	82.6061	1.2611e-01	1.9001e+00
2	TFM000001	87.1200	88.0650	87.5359	2.1311e-01	1.9002e+00
3	TIN000001	86.3646	86.8921	86.7229	1.2600e-01	1.9002e+00
4	TRV000001	87.4289	88.2680	87.7737	1.8943e-01	1.9002e+00
5	TSR000001	124.0354	127.1805	125.3758	7.8960e-01	1.9021e+00
6	TAO020136	68.7022	71.2642	70.0732	6.5605e-01	1.9000e+00
7	TAO050136	193.5304	194.5928	194.0407	2.6519e-01	1.9103e+00
8	TAO070136	194.6728	197.2014	196.2563	5.2611e-01	1.9107e+00
9	TAO080136	124.7076	126.6312	125.5639	4.4309e-01	1.9021e+00
10	TAO090136	234.5694	235.7941	235.1833	2.6537e-01	1.9183e+00
11	TAO100136	234.2715	235.7784	234.9943	3.2446e-01	1.9183e+00
12	TAO105136	242.9064	244.1285	243.3880	2.6359e-01	1.9201e+00
13	TAO110136	92.2195	92.9488	92.5700	1.8805e-01	1.9003e+00
14	TAO115136	245.3003	247.5498	246.2902	5.2488e-01	1.9208e+00
15	TAO120136	260.8715	261.8012	261.2770	2.0543e-01	1.9245e+00
16	TAO125136	149.6182	154.0018	151.9277	1.1551e+00	1.9045e+00
17	TAO130136	255.4389	256.5466	256.0292	2.8814e-01	1.9232e+00
18	TAO120048	102.1649	103.3071	102.6100	2.9635e-01	1.9007e+00
19	TAO130048	255.4628	256.3918	255.9428	2.0951e-01	1.9232e+00
20	TAO120224	257.7545	258.7769	258.2745	2.4352e-01	1.9237e+00
21	TAO130224	245.5988	247.9213	246.8513	5.2648e-01	1.9210e+00
22	TAO120312	253.2421	254.7356	253.9590	3.1912e-01	1.9227e+00
23	TAO130312	251.4923	252.3315	251.9469	1.8434e-01	1.9222e+00
24	TRT020000	180.6017	182.1703	181.2571	3.2395e-01	1.9083e+00
25	TRT070000	170.4241	172.1101	171.4236	4.1490e-01	1.9069e+00
26	TRT100000	245.1959	246.1313	245.6608	2.1715e-01	1.9207e+00
27	TRT120000	457.5772	458.0045	457.8132	9.2390e-02	1.9988e+00
28	TRT125000	95.3336	96.2709	95.7342	2.2661e-01	1.9004e+00
29	TRT130000	254.3283	255.2599	254.7201	2.0775e-01	1.9228e+00
30	EMPTY	39.3761	40.2940	39.8535	2.2638e-01	1.9011e+00
31	TAF050136	132.8200	134.1335	133.6319	3.0876e-01	1.9027e+00
32	TAF070136	153.4537	154.8416	154.1199	3.1891e-01	1.9048e+00
33	TAF080136	219.6323	227.4634	223.0744	2.2880e+00	1.9157e+00
34	TAF090136	91.9304	92.8718	92.4535	2.5169e-01	1.9003e+00
35	TAF100136	185.3294	186.5987	185.9660	2.8459e-01	1.9090e+00
36	TAF105136	190.6010	192.1388	191.3314	3.4633e-01	1.9099e+00
37	TAF110136	195.7122	197.6419	196.5735	4.5308e-01	1.9108e+00
38	TAF115136	202.0565	205.3224	203.2135	7.3019e-01	1.9119e+00
39	TAF120136	233.0813	237.8676	234.8783	9.7339e-01	1.9182e+00
40	TAF125136	213.9032	218.0724	215.7384	1.1473e+00	1.9143e+00
41	TAF130136	217.7566	220.0394	218.7011	5.6275e-01	1.9148e+00
42	TAF120048	208.0929	212.0483	209.3670	8.8771e-01	1.9130e+00
43	TAF130048	217.8427	220.4149	219.1007	5.2704e-01	1.9149e+00
44	TAF120224	205.3819	207.7808	206.4794	5.9861e-01	1.9125e+00
45	TAF130224	212.9393	214.6706	213.6935	4.0807e-01	1.9139e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.2181	2.2256e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	39.9499	1.4841e-01	1.9011e+00
48	TAI130048	254.2438	257.6899	256.5500	6.6482e-01	1.9233e+00
49	TAI130136	263.1893	264.8530	264.1389	3.0762e-01	1.9252e+00
50	TAI130224	258.8091	259.9278	259.3687	2.8620e-01	1.9240e+00
51	TAI130312	253.9466	255.7202	254.9512	3.7122e-01	1.9229e+00
52	TRR130000	72.8933	75.5353	74.2132	5.5474e-01	1.9000e+00
53	TSI000001	60.2650	61.1228	60.6765	1.9429e-01	1.9001e+00
54	TSI000002	88.1226	89.9027	89.1326	4.3755e-01	1.9002e+00
55	TSO000001	57.1053	57.9710	57.4518	2.2709e-01	1.9001e+00
56	TSO000002	73.8542	74.7047	74.2843	2.0138e-01	1.9000e+00
57	TAF020136	101.6945	103.1572	102.4388	3.6035e-01	1.9007e+00
58	TAF120312	204.7705	208.0404	206.4177	8.6774e-01	1.9125e+00
59	TAF130312	219.7223	223.0479	221.6384	7.0578e-01	1.9154e+00
60	EMPTY	3.5547	3.5889	3.5742	7.7675e-03	0.0000e+00
61	EMPTY	3.5449	3.5645	3.5566	5.3123e-03	0.0000e+00
62	EMPTY	3.5303	3.5498	3.5400	4.3000e-03	0.0000e+00
63	EMPTY	3.5254	3.5400	3.5326	3.7226e-03	0.0000e+00
64	EMPTY	1.7188	1.7236	1.7219	2.3675e-03	0.0000e+00
65	EMPTY	1.7334	1.7432	1.7373	2.2058e-03	0.0000e+00
66	EMPTY	1.7432	1.7480	1.7466	2.2603e-03	0.0000e+00
67	EMPTY	1.7578	1.7627	1.7597	2.3941e-03	0.0000e+00
68	EMPTY	1.7627	1.7676	1.7661	2.2603e-03	0.0000e+00
69	EMPTY	1.7725	1.7871	1.7783	2.4164e-03	0.0000e+00
70	EMPTY	1.7822	1.7871	1.7859	2.1065e-03	0.0000e+00
71	EMPTY	1.7969	1.8066	1.8023	1.8821e-03	0.0000e+00
72	EMPTY	1.8066	1.8164	1.8102	2.4244e-03	0.0000e+00
73	EMPTY	1.8213	1.8262	1.8234	2.4484e-03	0.0000e+00
74	EMPTY	1.8262	1.8359	1.8332	2.6396e-03	0.0000e+00
75	EMPTY	1.8408	1.8506	1.8456	1.2041e-03	0.0000e+00
76	EMPTY	1.8506	1.8604	1.8532	2.6488e-03	0.0000e+00
77	EMPTY	1.8506	1.8701	1.8658	2.8996e-03	0.0000e+00
78	EMPTY	1.8799	1.8848	1.8839	1.8950e-03	0.0000e+00
79	EMPTY	1.8994	1.9043	1.9005	2.0432e-03	0.0000e+00
80	PAN020136	-17.3098	-17.0046	-17.1664	6.2876e-02	8.7106e-01
81	PAN050136	-31.6952	-31.0848	-31.3503	1.4397e-01	1.6818e+00
82	PAN070136	-20.3819	-20.0767	-20.2034	8.5278e-02	8.7146e-01
83	PAN080136	-12.5062	-10.0648	-11.6822	8.2316e-01	8.7049e-01
84	PAN090136	-10.5050	-7.9873	-8.9837	7.7811e-01	8.7029e-01
85	PAN100136	-12.2670	-12.0382	-12.1526	4.4272e-02	8.7053e-01
86	PAN105136	-6.9391	2.5214	-4.8990	1.6930e+00	8.7009e-01
87	PAN110136	-7.2984	6.2056	-3.2335	2.0081e+00	8.7004e-01
88	PAN115136	-7.4834	1.3667	-2.6585	1.6222e+00	8.7003e-01
89	PAN120136	-6.6720	0.4997	-3.6538	1.2901e+00	8.7005e-01
90	PAN125136	-6.0323	-2.8280	-4.6987	7.0622e-01	8.7008e-01
91	PAN130136	-6.4562	-3.7096	-4.8937	6.8226e-01	8.7009e-01
92	PAN120048	-12.0293	-4.5525	-7.2488	1.6749e+00	8.7019e-01
93	PAN130048	-11.8019	-8.2161	-9.6046	7.7253e-01	8.7033e-01
94	PAN120224	-7.7115	-3.7442	-5.4013	8.7601e-01	8.7010e-01
95	PAN130224	-12.2846	-8.3173	-10.3315	9.8286e-01	8.7038e-01
96	PAN120312	-11.2840	-1.2895	-6.9307	1.5774e+00	8.7017e-01
97	PAN130312	-14.4899	-7.8523	-9.9519	1.1305e+00	8.7036e-01
98	PAB000136	40.1823	40.3654	40.2683	5.1192e-02	5.8867e-01
99	PAB100136	43.8471	44.0302	43.9084	5.3616e-02	5.9030e-01
100	PAB125136	44.5742	44.8031	44.6804	5.5056e-02	5.9066e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.9587	40.3249	40.1296	1.0168e-01	7.5668e-01
102	PRV0000001	29.7283	29.8504	29.7332	2.4164e-02	7.5367e-01
103	PSR0000001	44.6935	44.9376	44.7985	7.8027e-02	7.5832e-01
104	PFM0000001	2.0986	2.4649	2.2634	7.1636e-02	5.0003e-01
105	PAN000136	-132.2493	-129.0450	-129.8781	7.4956e-01	4.9307e+00
106	PFM0000002	2.1978	2.3153	2.2502	2.9678e-02	2.0008e-01
107	EMPTY	-0.0049	0.0049	0.0030	3.1023e-03	0.0000e+00
108	EMPTY	-10.0000	-5.4150	-7.6304	1.6412e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0017	2.3365e-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	102.0245	102.8057	102.3565	1.7313e-01	1.0165e+00
113	VPW0000002	119.2421	119.6327	119.3358	1.0617e-01	1.0811e+00
114	VPW0000003	147.4271	148.0131	147.8374	1.4363e-01	1.2012e+00
115	VPW0000004	104.8640	105.4500	105.1961	1.5906e-01	1.0269e+00
116	VPW0000005	139.8475	140.2381	140.1015	1.3235e-01	1.1674e+00
117	VPW0000006	148.2610	148.8469	148.6202	1.6908e-01	1.2047e+00
118	IPW0000001	545.4548	555.2165	549.1251	1.7480e+00	9.1885e+00
119	IPW0000002	1300.3710	1315.9812	1308.3713	4.7674e+00	1.3132e+01
120	IPW0000003	1318.1998	1325.9999	1321.7878	1.7334e+00	1.3215e+01
121	IPW0000004	382.1458	383.6106	383.0345	3.9075e-01	3.6272e+00
122	IPW0000005	253.5616	255.0263	254.2549	4.0777e-01	2.8345e+00
123	IPW0000006	261.7563	263.2212	262.4788	3.1567e-01	2.8809e+00
124	EMPTY	-0.0293	-0.0098	-0.0192	4.1161e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0126	2.9742e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0153	4.1864e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0149	3.9961e-03	0.0000e+00
128	IHT0000001	127.9372	130.4762	129.1090	6.3870e-01	4.2985e+00
129	IHT0000002	131.7908	133.9393	132.7792	5.4449e-01	4.3096e+00
130	IHT0000003	132.3092	134.4576	133.2466	5.6634e-01	4.3111e+00
131	IHT0000004	130.2096	132.7486	131.3540	6.3259e-01	4.3053e+00
132	IHT0000005	128.8762	131.2199	129.8410	5.8048e-01	4.3007e+00
133	IHT0000006	123.9971	125.9503	124.8526	5.3217e-01	4.2859e+00
134	IHT0000007	131.1899	133.3384	132.0454	5.2034e-01	4.3074e+00
135	IHT0000008	129.5748	131.7233	130.4966	4.8655e-01	4.3027e+00
136	IHT0000009	129.7589	131.7120	130.7080	4.9444e-01	4.3033e+00
137	IHT0000010	-40.8842	-38.1498	-39.7709	4.9795e-01	4.1192e+00
138	IHT0000011	129.7213	132.2603	130.7486	5.4933e-01	4.3034e+00
139	IHT0000012	127.3362	129.6800	128.3949	5.5396e-01	4.2963e+00
140	IHT0000013	91.2109	93.7500	92.3516	5.7094e-01	4.2027e+00
141	IHT0000014	127.3663	129.7101	128.5928	5.3385e-01	4.2969e+00
142	IHT0000015	94.6214	97.3558	95.8948	5.2532e-01	4.2107e+00
143	IHT0000016	88.3263	91.4513	89.6662	5.1601e-01	4.1969e+00
144	IHT0000017	105.2659	109.1722	107.2269	8.5268e-01	4.2379e+00
145	IHT0000018	106.9636	109.8933	108.4403	5.9603e-01	4.2410e+00
146	IHT0000019	103.4781	106.2124	104.7319	5.8937e-01	4.2317e+00
147	IHT0000020	106.1974	108.5412	107.3537	5.5220e-01	4.2382e+00
148	IHT0000021	-3.0086	0.1164	-1.3172	6.8187e-01	4.1000e+00
149	IHT0000022	91.8833	94.4223	93.4145	5.6821e-01	4.2051e+00
150	IHT0000023	103.9739	106.3176	105.3293	5.2853e-01	4.2331e+00
151	IHT0000024	69.1820	71.3304	70.4163	4.9354e-01	4.1600e+00
152	IHT0000025	104.5485	106.6970	105.8259	5.2082e-01	4.2344e+00
153	IHT0000026	105.1307	107.2792	106.3456	5.4859e-01	4.2357e+00
154	IHT0000027	89.9940	92.5330	91.1737	5.5937e-01	4.2002e+00
155	IHT0000028	91.5302	93.6786	92.5380	5.2698e-01	4.2031e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0105	107.3543	106.0223	5.4346e-01	4.2349e+00
157	IHT000030	107.2078	109.7469	108.2860	5.6115e-01	4.2406e+00
158	IHT000031	105.6415	108.1806	106.6181	5.6909e-01	4.2364e+00
159	IHT000032	106.7420	109.4764	107.9334	5.4996e-01	4.2397e+00
160	IHT000033	106.7646	109.4990	107.8818	5.3821e-01	4.2396e+00
161	IHT000034	93.9378	95.8909	94.7190	4.4643e-01	4.2080e+00
162	IHT000035	124.1136	126.0667	124.9691	4.6335e-01	4.2862e+00
163	IHT000036	92.6044	94.3622	93.3740	4.0126e-01	4.2050e+00

Velocity 1 = 3.9187 (ft/sec) (+/- 11.1182 %)
Velocity 2 = 3.9079 (ft/sec) (+/- 4.3164 %)
Pressure drop = -4.6991 (psi)
Tsats in = 267.5309 (deg F) Tsats out = 273.7803 (deg F)
Phi inner = 101.5105 (kBtu/hr-ft2) (+/- 1.4109 %)
Phi outer = 101.0188 (kBtu/hr-ft2) (+/- 1.5424 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	82.1279	82.7639	82.4502	1.7260e-01	1.9001e+00
1	TRF0000002	82.4711	83.3145	82.7157	1.4358e-01	1.9001e+00
2	TFM0000001	87.2256	87.9610	87.5782	1.7588e-01	1.9002e+00
3	TIN0000001	86.5753	87.1022	86.8492	1.2767e-01	1.9002e+00
4	TRV0000001	87.2207	88.0595	87.7451	1.9031e-01	1.9002e+00
5	TSR0000001	125.1534	128.7017	126.8647	8.8388e-01	1.9022e+00
6	TAO020136	68.9155	71.2642	69.9879	5.6248e-01	1.9000e+00
7	TAO050136	193.6293	194.6902	194.1340	2.5212e-01	1.9104e+00
8	TAO070136	196.4235	198.7550	197.6556	4.2838e-01	1.9109e+00
9	TAO080136	124.5070	125.4215	125.0060	2.5044e-01	1.9020e+00
10	TAO090136	235.7931	236.5465	236.1171	2.0939e-01	1.9185e+00
11	TAO100136	235.4953	238.1292	236.3465	3.7823e-01	1.9186e+00
12	TAO105136	243.5647	244.9736	244.1022	3.2102e-01	1.9203e+00
13	TAO110136	94.4998	95.2278	94.8111	1.5720e-01	1.9004e+00
14	TAO115136	246.1445	247.9238	247.1412	4.1892e-01	1.9210e+00
15	TAO120136	261.8935	262.7292	262.3095	2.2143e-01	1.9248e+00
16	TAO125136	148.7206	153.1071	150.3335	9.4331e-01	1.9043e+00
17	TAO130136	256.4535	257.2808	256.8747	2.0924e-01	1.9234e+00
18	TAO120048	105.1696	106.2058	105.5926	2.7391e-01	1.9009e+00
19	TAO130048	256.2999	257.1353	256.8151	1.8095e-01	1.9234e+00
20	TAO120224	258.4047	259.5199	259.0887	2.2512e-01	1.9239e+00
21	TAO130224	247.2711	248.8467	248.0908	4.1123e-01	1.9212e+00
22	TAO120312	254.0821	255.2023	254.7092	2.7716e-01	1.9228e+00
23	TAO130312	252.3304	253.5417	252.7887	2.0607e-01	1.9224e+00
24	TRT020000	181.1906	182.5627	181.8845	2.9818e-01	1.9084e+00
25	TRT070000	170.2243	171.6137	170.8677	3.0664e-01	1.9068e+00
26	TRT100000	245.9440	247.0662	246.4459	2.4314e-01	1.9209e+00
27	TRT120000	457.7478	458.0903	457.8919	8.3665e-02	1.9988e+00
28	TRT125000	97.0975	98.0320	97.4750	2.1371e-01	1.9005e+00
29	TRT130000	255.0736	256.0041	255.5419	1.9799e-01	1.9231e+00
30	EMPTY	39.6057	40.2940	39.8581	2.2355e-01	1.9011e+00
31	TAF050136	133.5271	135.3430	134.4913	3.8441e-01	1.9028e+00
32	TAF070136	154.3467	155.8344	155.2108	3.4515e-01	1.9049e+00
33	TAF080136	217.5534	233.9395	224.1547	3.9286e+00	1.9159e+00
34	TAF090136	93.9150	94.9592	94.5245	2.5149e-01	1.9004e+00
35	TAF100136	186.2080	187.5737	186.9264	3.1094e-01	1.9092e+00
36	TAF105136	191.8514	193.0077	192.3410	3.2437e-01	1.9101e+00
37	TAF110136	196.5809	198.7987	197.4106	5.5252e-01	1.9109e+00
38	TAF115136	202.7286	205.8979	204.1550	8.8198e-01	1.9121e+00
39	TAF120136	235.0562	238.9928	236.8260	9.5707e-01	1.9187e+00
40	TAF125136	214.7574	218.1656	216.1941	7.7012e-01	1.9143e+00
41	TAF130136	218.1382	220.5150	219.2947	4.4576e-01	1.9150e+00
42	TAF120048	208.1891	212.5299	209.5753	7.1324e-01	1.9131e+00
43	TAF130048	218.8919	221.7462	220.2850	8.2799e-01	1.9152e+00
44	TAF120224	205.8614	209.3137	207.4238	8.4498e-01	1.9127e+00
45	TAF130224	213.4198	215.3427	214.5470	4.4193e-01	1.9140e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1813	2.2275e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0142	1.0662e-01	1.9011e+00
48	TAI130048	255.3624	258.7127	257.5031	7.0773e-01	1.9235e+00
49	TAI130136	264.2986	265.5930	265.0559	2.8257e-01	1.9255e+00
50	TAI130224	259.7410	260.9524	260.3523	2.8305e-01	1.9243e+00
51	TAI130312	255.1601	256.5597	255.9214	2.8416e-01	1.9231e+00
52	TRR130000	64.9306	66.9540	65.8544	4.1958e-01	1.9000e+00
53	TSI000001	60.4787	61.3368	60.9468	1.7432e-01	1.9001e+00
54	TSI000002	88.8563	90.1134	89.4261	3.3782e-01	1.9003e+00
55	TSO000001	57.2129	57.9710	57.5338	2.0142e-01	1.9001e+00
56	TSO000002	74.1744	74.9181	74.5097	1.8753e-01	1.9000e+00
57	TAF020136	102.0082	103.5736	102.6514	3.9714e-01	1.9007e+00
58	TAF120312	205.1556	208.8097	206.9524	9.3823e-01	1.9126e+00
59	TAF130312	220.1980	224.2822	222.1705	8.0771e-01	1.9155e+00
60	EMPTY	3.5645	3.6035	3.5866	8.2068e-03	0.0000e+00
61	EMPTY	3.5596	3.5791	3.5710	4.9922e-03	0.0000e+00
62	EMPTY	3.5449	3.5596	3.5545	4.0626e-03	0.0000e+00
63	EMPTY	3.5400	3.5547	3.5483	3.7239e-03	0.0000e+00
64	EMPTY	1.7236	1.7334	1.7274	2.2689e-03	0.0000e+00
65	EMPTY	1.7383	1.7480	1.7432	9.8648e-04	0.0000e+00
66	EMPTY	1.7480	1.7529	1.7525	1.3381e-03	0.0000e+00
67	EMPTY	1.7627	1.7676	1.7655	2.4344e-03	0.0000e+00
68	EMPTY	1.7676	1.7773	1.7727	1.6972e-03	0.0000e+00
69	EMPTY	1.7822	1.7871	1.7846	2.4642e-03	0.0000e+00
70	EMPTY	1.7871	1.7969	1.7930	2.2058e-03	0.0000e+00
71	EMPTY	1.8066	1.8115	1.8094	2.4484e-03	0.0000e+00
72	EMPTY	1.8164	1.8213	1.8173	1.8950e-03	0.0000e+00
73	EMPTY	1.8213	1.8359	1.8315	2.4662e-03	0.0000e+00
74	EMPTY	1.8359	1.8506	1.8410	2.4083e-03	0.0000e+00
75	EMPTY	1.8457	1.8555	1.8525	2.7902e-03	0.0000e+00
76	EMPTY	1.8555	1.8652	1.8611	2.0598e-03	0.0000e+00
77	EMPTY	1.8701	1.8799	1.8749	2.0903e-03	0.0000e+00
78	EMPTY	1.8896	1.8945	1.8910	2.2146e-03	0.0000e+00
79	EMPTY	1.9043	1.9092	1.9081	2.0432e-03	0.0000e+00
80	PAN020136	-17.3098	-17.0046	-17.1313	7.8003e-02	8.7105e-01
81	PAN050136	-31.5426	-31.0848	-31.3717	1.1795e-01	1.6818e+00
82	PAN070136	-20.6871	-19.9242	-20.1729	1.5008e-01	8.7146e-01
83	PAN080136	-12.8114	-10.0648	-12.0500	6.2961e-01	8.7052e-01
84	PAN090136	-10.8102	-7.7584	-8.7731	6.4189e-01	8.7028e-01
85	PAN100136	-12.2670	-9.3679	-12.0641	4.4423e-01	8.7052e-01
86	PAN105136	-7.7020	-3.5821	-4.8303	1.0664e+00	8.7008e-01
87	PAN110136	-4.9333	-0.4320	-3.0657	1.0076e+00	8.7003e-01
88	PAN115136	-4.3553	2.8163	-2.6234	1.2483e+00	8.7002e-01
89	PAN120136	-6.6720	1.7967	-4.3313	1.6364e+00	8.7007e-01
90	PAN125136	-6.0323	-3.1331	-4.4729	7.4149e-01	8.7007e-01
91	PAN130136	-6.2273	-4.2437	-5.1348	4.3445e-01	8.7009e-01
92	PAN120048	-11.2664	-6.9939	-8.9288	9.5785e-01	8.7029e-01
93	PAN130048	-10.7338	-2.1126	-8.9119	1.2808e+00	8.7029e-01
94	PAN120224	-8.9322	0.5283	-5.8789	1.9689e+00	8.7012e-01
95	PAN130224	-13.1238	-8.6988	-10.2048	7.2899e-01	8.7037e-01
96	PAN120312	-9.1478	-5.3331	-7.5288	8.1828e-01	8.7020e-01
97	PAN130312	-14.5662	-7.3945	-9.8497	1.1506e+00	8.7035e-01
98	PAB000136	39.9992	40.2281	40.1090	5.1492e-02	5.8860e-01
99	PAB100136	43.5266	43.8928	43.7436	7.9454e-02	5.9022e-01
100	PAB125136	44.3911	44.6200	44.5083	5.1625e-02	5.9058e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8366	40.0808	40.0075	6.5249e-02	7.5664e-01
102	PRV000001	29.6063	29.8504	29.7259	4.6072e-02	7.5367e-01
103	PSR000001	44.5714	45.1818	44.6788	9.7532e-02	7.5827e-01
104	PFM000001	2.1902	2.3733	2.2744	6.6278e-02	5.0003e-01
105	PAN000136	-131.7916	-128.5872	-130.0978	6.8742e-01	4.9307e+00
106	PFM000002	2.2314	2.2985	2.2616	1.6608e-02	2.0008e-01
107	EMPTY	-0.0049	0.0049	0.0002	4.2954e-03	0.0000e+00
108	EMPTY	-10.0000	-1.8213	-7.6987	1.7658e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0006	1.8821e-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	102.0245	102.4151	102.1416	1.0440e-01	1.0157e+00
113	VPW000002	119.0467	119.6327	119.2538	1.4979e-01	1.0808e+00
114	VPW000003	147.4271	148.4037	147.8296	1.6931e-01	1.2012e+00
115	VPW000004	104.8640	105.4500	105.0945	1.3491e-01	1.0265e+00
116	VPW000005	139.6522	140.2381	140.0624	1.4895e-01	1.1672e+00
117	VPW000006	148.6516	148.8469	148.7179	9.3461e-02	1.2051e+00
118	IPW000001	541.5501	545.4548	542.4872	1.0613e+00	9.1639e+00
119	IPW000002	1310.1273	1317.9325	1314.1079	1.6235e+00	1.3168e+01
120	IPW000003	1325.9999	1331.8499	1329.7438	1.4117e+00	1.3265e+01
121	IPW000004	378.2395	379.2161	378.5130	2.8179e-01	3.5974e+00
122	IPW000005	253.0734	254.5381	253.7276	4.0200e-01	2.8316e+00
123	IPW000006	262.2446	264.1978	263.2405	3.6858e-01	2.8853e+00
124	EMPTY	-0.0293	-0.0146	-0.0195	3.9459e-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	3.3249e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0154	3.9901e-03	0.0000e+00
128	IHT000001	127.9372	130.4762	129.0934	6.3238e-01	4.2984e+00
129	IHT000002	131.5955	134.1346	132.7948	6.2267e-01	4.3097e+00
130	IHT000003	131.9186	134.2623	133.2427	6.0912e-01	4.3111e+00
131	IHT000004	130.0143	132.5533	131.3345	6.4905e-01	4.3052e+00
132	IHT000005	128.4856	131.0246	129.8371	6.4819e-01	4.3007e+00
133	IHT000006	123.6065	126.1456	124.8643	6.2035e-01	4.2859e+00
134	IHT000007	130.6040	133.3384	131.9829	6.3920e-01	4.3072e+00
135	IHT000008	129.1842	131.9186	130.4654	5.9993e-01	4.3026e+00
136	IHT000009	129.1729	131.9073	130.6416	6.3899e-01	4.3031e+00
137	IHT000010	-40.8842	-38.1498	-39.7435	6.3548e-01	4.1192e+00
138	IHT000011	129.9166	132.0650	130.8540	6.0102e-01	4.3038e+00
139	IHT000012	127.5315	129.8753	128.5550	5.3606e-01	4.2968e+00
140	IHT000013	91.0156	93.7500	92.3203	6.0546e-01	4.2027e+00
141	IHT000014	127.3663	130.2960	128.6006	6.6899e-01	4.2970e+00
142	IHT000015	94.8167	97.5511	95.8987	6.2041e-01	4.2107e+00
143	IHT000016	88.5216	91.2560	89.5920	5.8692e-01	4.1967e+00
144	IHT000017	106.0472	108.7816	107.3089	6.6872e-01	4.2381e+00
145	IHT000018	107.3543	109.8933	108.4832	7.2468e-01	4.2411e+00
146	IHT000019	103.8687	106.4078	104.8296	6.3606e-01	4.2319e+00
147	IHT000020	106.3927	108.7365	107.2873	5.8139e-01	4.2380e+00
148	IHT000021	-2.6179	0.3118	-1.3211	7.4007e-01	4.1000e+00
149	IHT000022	92.2739	94.6176	93.2583	6.0097e-01	4.2047e+00
150	IHT000023	104.1692	106.7083	105.2785	5.9115e-01	4.2330e+00
151	IHT000024	69.3773	71.9163	70.4085	5.9978e-01	4.1600e+00
152	IHT000025	104.9392	107.4782	105.7907	5.7826e-01	4.2343e+00
153	IHT000026	105.1307	107.8651	106.2479	5.9456e-01	4.2354e+00
154	IHT000027	89.7987	92.3377	90.9315	5.8660e-01	4.1996e+00
155	IHT000028	91.1396	93.8739	92.4209	5.4983e-01	4.2029e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0105	107.1590	106.0418	5.5389e-01	4.2349e+00
157	IHT000030	107.2078	109.3562	108.2313	5.7529e-01	4.2404e+00
158	IHT000031	105.4462	107.7900	106.5361	6.2277e-01	4.2362e+00
159	IHT000032	106.7420	109.0858	107.8866	5.7994e-01	4.2396e+00
160	IHT000033	106.5693	109.1083	107.8154	6.0475e-01	4.2394e+00
161	IHT000034	93.3518	95.3050	94.5315	4.5156e-01	4.2076e+00
162	IHT000035	123.3323	125.4808	124.7816	4.9613e-01	4.2857e+00
163	IHT000036	92.0185	94.3622	93.2138	4.6461e-01	4.2046e+00

Velocity 1 = 0.009200 (ft/sec)

Velocity 2 = 0.009600 (ft/sec)

Pressure Drop = 0.007900 (psi)

Tsat in = 0.236481 (deg F) Tsat out = 0.233704 (deg F)

Phi inner = 0.561798 (kBtu/hr-ft2) Phi outer = 0.287201 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0848	0.1030
1	TRF000002	0.1096	0.1327
2	TFM000001	0.0423	0.0483
3	TIN000001	0.1263	0.1456
4	TRV000001	0.0286	0.0326
5	TSR000001	1.4889	1.1875
6	TAO020136	0.0853	0.1217
7	TAO050136	0.0933	0.0481
8	TAO070136	1.3993	0.7130
9	TAO080136	0.5579	0.4443
10	TAO090136	0.9338	0.3970
11	TAO100136	1.3522	0.5754
12	TAO105136	0.7142	0.2934
13	TAO110136	2.2411	2.4210
14	TAO115136	0.8510	0.3455
15	TAO120136	1.0325	0.3952
16	TAO125136	1.5942	1.0493
17	TAO130136	0.8455	0.3302
18	TAO120048	2.9826	2.9067
19	TAO130048	0.8723	0.3408
20	TAO120224	0.8142	0.3152
21	TAO130224	1.2395	0.5021
22	TAO120312	0.7502	0.2954
23	TAO130312	0.8418	0.3341
24	TRT020000	0.6274	0.3461
25	TRT070000	0.5559	0.3243
26	TRT100000	0.7851	0.3196
27	TRT120000	0.0787	0.0172
28	TRT125000	1.7408	1.8184
29	TRT130000	0.8218	0.3226
30	EMPTY	0.0046	0.0115
31	TAF050136	0.8594	0.6431
32	TAF070136	1.0909	0.7078
33	TAF080136	1.0803	0.4843
34	TAF090136	2.0710	2.2400
35	TAF100136	0.9604	0.5164
36	TAF105136	1.0096	0.5277
37	TAF110136	0.8371	0.4258
38	TAF115136	0.9415	0.4633
39	TAF120136	1.9477	0.8292
40	TAF125136	0.4557	0.2112
41	TAF130136	0.5936	0.2714
42	TAF120048	0.2083	0.0995
43	TAF130048	1.1843	0.5405
44	TAF120224	0.9444	0.4574
45	TAF130224	0.8535	0.3994

#	Name	Abs Diff	%Diff
46	EMPTY	0.0368	0.0963
47	EMPTY	0.0643	0.1609
48	TAI130048	0.9531	0.3715
49	TAI130136	0.9170	0.3472
50	TAI130224	0.9836	0.3792
51	TAI130312	0.9702	0.3805
52	TRR130000	8.3588	11.2632
53	TSI000001	0.2703	0.4455
54	TSI000002	0.2935	0.3293
55	TSO000001	0.0820	0.1427
56	TSO000002	0.2254	0.3034
57	TAF020136	0.2126	0.2075
58	TAF120312	0.5347	0.2590
59	TAF130312	0.5321	0.2401
60	EMPTY	0.0124	0.3469
61	EMPTY	0.0144	0.4049
62	EMPTY	0.0145	0.4096
63	EMPTY	0.0157	0.4444
64	EMPTY	0.0055	0.3194
65	EMPTY	0.0059	0.3396
66	EMPTY	0.0059	0.3378
67	EMPTY	0.0058	0.3296
68	EMPTY	0.0066	0.3737
69	EMPTY	0.0063	0.3543
70	EMPTY	0.0071	0.3976
71	EMPTY	0.0071	0.3939
72	EMPTY	0.0071	0.3922
73	EMPTY	0.0081	0.4442
74	EMPTY	0.0078	0.4255
75	EMPTY	0.0069	0.3739
76	EMPTY	0.0079	0.4263
77	EMPTY	0.0091	0.4877
78	EMPTY	0.0071	0.3769
79	EMPTY	0.0076	0.3999
80	PAN020136	0.0351	0.2045
81	PAN050136	0.0214	0.0683
82	PAN070136	0.0305	0.1510
83	PAN080136	0.3678	3.1484
84	PAN090136	0.2106	2.3442
85	PAN100136	0.0885	0.7282
86	PAN105136	0.0687	1.4023
87	PAN110136	0.1678	5.1894
88	PAN115136	0.0351	1.3203
89	PAN120136	0.6775	18.5423
90	PAN125136	0.2258	4.8056
91	PAN130136	0.2411	4.9267
92	PAN120048	1.6800	23.1762
93	PAN130048	0.6927	7.2122
94	PAN120224	0.4776	8.8423
95	PAN130224	0.1267	1.2264
96	PAN120312	0.5981	8.6297
97	PAN130312	0.1022	1.0269
98	PAB000136	0.1593	0.3956
99	PAB100136	0.1648	0.3753
100	PAB125136	0.1721	0.3852

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.1221	0.3043
102	PRV000001	0.0073	0.0245
103	PSR000001	0.1197	0.2672
104	PFM000001	0.0110	0.4860
105	PAN000136	0.2197	0.1692
106	PFM000002	0.0114	0.5066
107	EMPTY	0.0028	93.3333
108	EMPTY	0.0683	0.8951
109	EMPTY	0.0011	64.7059
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.2149	0.2099
113	VPW000002	0.0820	0.0687
114	VPW000003	0.0078	0.0053
115	VPW000004	0.1016	0.0966
116	VPW000005	0.0391	0.0279
117	VPW000006	0.0977	0.0657
118	IPW000001	6.6379	1.2088
119	IPW000002	5.7366	0.4385
120	IPW000003	7.9559	0.6019
121	IPW000004	4.5215	1.1804
122	IPW000005	0.5273	0.2074
123	IPW000006	0.7617	0.2902
124	EMPTY	0.0003	1.5625
125	EMPTY	0.0007	5.5556
126	EMPTY	0.0001	0.6536
127	EMPTY	0.0005	3.3557
128	IHT000001	0.0156	0.0121
129	IHT000002	0.0156	0.0117
130	IHT000003	0.0039	0.0029
131	IHT000004	0.0195	0.0148
132	IHT000005	0.0039	0.0030
133	IHT000006	0.0117	0.0094
134	IHT000007	0.0625	0.0473
135	IHT000008	0.0312	0.0239
136	IHT000009	0.0664	0.0508
137	IHT000010	0.0274	0.0689
138	IHT000011	0.1054	0.0806
139	IHT000012	0.1601	0.1247
140	IHT000013	0.0313	0.0339
141	IHT000014	0.0078	0.0061
142	IHT000015	0.0039	0.0041
143	IHT000016	0.0742	0.0827
144	IHT000017	0.0820	0.0765
145	IHT000018	0.0429	0.0396
146	IHT000019	0.0977	0.0933
147	IHT000020	0.0664	0.0619
148	IHT000021	0.0039	0.2961
149	IHT000022	0.1562	0.1672
150	IHT000023	0.0508	0.0482
151	IHT000024	0.0078	0.0111
152	IHT000025	0.0352	0.0333
153	IHT000026	0.0977	0.0919
154	IHT000027	0.2422	0.2656
155	IHT000028	0.1171	0.1265

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#	Name	Abs Diff	%Diff
156	IHT000029	0.0195	0.0184
157	IHT000030	0.0547	0.0505
158	IHT000031	0.0820	0.0769
159	IHT000032	0.0468	0.0434
160	IHT000033	0.0664	0.0615
161	IHT000034	0.1875	0.1980
162	IHT000035	0.1875	0.1500
163	IHT000036	0.1602	0.1716

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.

12 of 12

Velocity 1 = 3.5153 (ft/sec) (+/- 13.8352 %)
Velocity 2 = 3.5051 (ft/sec) (+/- 5.2470 %)
Pressure drop = -4.7742 (psi)
Tsat in = 268.0583 (deg F) Tsat out = 274.3534 (deg F)
Phi inner = 101.4438 (kBtu/hr-ft2) (+/- 1.4111 %)
Phi outer = 101.0445 (kBtu/hr-ft2) (+/- 1.5423 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.1279	82.9758	82.5901	1.6964e-01	1.9001e+00
1	TRF000002	82.6820	83.1037	82.8506	1.5359e-01	1.9001e+00
2	TFM000001	87.0169	87.9610	87.5600	2.1369e-01	1.9002e+00
3	TIN000001	86.4697	87.3122	86.8809	1.5376e-01	1.9002e+00
4	TRV000001	87.6389	88.3750	87.8987	1.9285e-01	1.9002e+00
5	TSR000001	128.6000	130.6237	129.6978	5.3961e-01	1.9024e+00
6	TAO020136	70.1975	71.7976	70.9420	3.8936e-01	1.9000e+00
7	TAO050136	204.3795	206.0055	205.3305	2.9359e-01	1.9123e+00
8	TAO070136	208.2370	212.5716	209.9931	9.2456e-01	1.9132e+00
9	TAO080136	129.5619	130.9762	130.2518	3.3774e-01	1.9024e+00
10	TAO090136	250.4957	251.4287	250.9384	2.0891e-01	1.9219e+00
11	TAO100136	251.4223	253.7516	252.4568	4.9739e-01	1.9223e+00
12	TAO105136	258.6251	260.2083	259.3872	3.8718e-01	1.9240e+00
13	TAO110136	94.2955	95.1254	94.7031	1.6852e-01	1.9004e+00
14	TAO115136	262.3725	264.2283	263.2472	3.5081e-01	1.9250e+00
15	TAO120136	278.4310	279.3513	278.8748	2.2284e-01	1.9292e+00
16	TAO125136	159.9583	235.0062	167.5966	1.9065e+01	1.9064e+00
17	TAO130136	271.7984	273.4341	272.8381	2.9278e-01	1.9275e+00
18	TAO120048	107.4445	108.5812	108.0750	2.8317e-01	1.9010e+00
19	TAO130048	272.5444	273.3727	273.0207	1.8375e-01	1.9276e+00
20	TAO120224	275.0500	276.3387	275.7665	2.4201e-01	1.9283e+00
21	TAO130224	263.5083	264.7935	264.0645	3.1409e-01	1.9252e+00
22	TAO120312	269.4081	270.7955	270.1760	2.8836e-01	1.9268e+00
23	TAO130312	268.2634	269.1862	268.7774	2.0074e-01	1.9264e+00
24	TRT020000	189.4030	191.1569	190.3482	3.7045e-01	1.9097e+00
25	TRT070000	130.1372	131.5663	130.9520	3.3924e-01	1.9025e+00
26	TRT100000	260.4529	261.6587	261.0408	2.8857e-01	1.9244e+00
27	TRT120000	457.7478	458.1760	458.0029	9.2220e-02	1.9988e+00
28	TRT125000	96.6833	97.4112	97.0643	1.7507e-01	1.9005e+00
29	TRT130000	270.8881	271.6250	271.2372	1.6161e-01	1.9271e+00
30	EMPTY	39.6057	40.2940	39.8673	2.2239e-01	1.9011e+00
31	TAF050136	139.3634	140.8696	140.0494	3.5475e-01	1.9033e+00
32	TAF070136	162.5510	165.7004	163.9783	6.6981e-01	1.9059e+00
33	TAF080136	231.3158	246.5403	238.5393	4.6959e+00	1.9190e+00
34	TAF090136	93.1837	94.3345	93.7594	2.8639e-01	1.9004e+00
35	TAF100136	198.3584	202.2249	199.8150	9.2563e-01	1.9113e+00
36	TAF105136	204.2182	208.4117	205.8443	1.1326e+00	1.9124e+00
37	TAF110136	209.6344	214.5965	211.1573	1.1453e+00	1.9134e+00
38	TAF115136	216.6943	219.4554	217.7603	5.4506e-01	1.9147e+00
39	TAF120136	259.1794	261.0276	260.0459	4.1622e-01	1.9242e+00
40	TAF125136	229.0038	231.2587	230.1823	4.4950e-01	1.9172e+00
41	TAF130136	232.2455	235.0734	233.6361	4.0244e-01	1.9180e+00
42	TAF120048	221.8449	224.7139	223.1554	6.7671e-01	1.9157e+00
43	TAF130048	233.2047	234.9979	234.2261	4.5405e-01	1.9181e+00
44	TAF120224	219.0532	221.7163	220.5928	5.9462e-01	1.9152e+00
45	TAF130224	227.3032	229.3988	228.2956	4.9132e-01	1.9168e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1216	2.0359e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0463	1.6610e-01	1.9011e+00
48	TAI130048	272.9650	274.5320	273.7490	3.6213e-01	1.9278e+00
49	TAI130136	280.8539	281.8624	281.2808	1.9738e-01	1.9298e+00
50	TAI130224	276.5197	277.7184	277.0493	2.6532e-01	1.9287e+00
51	TAI130312	271.6848	273.0707	272.4035	3.1297e-01	1.9274e+00
52	TRR130000	65.6751	67.3808	66.5897	4.4513e-01	1.9000e+00
53	TSI000001	60.4787	61.1239	60.8255	1.6408e-01	1.9001e+00
54	TSI000002	89.9027	91.1597	90.5542	3.1443e-01	1.9003e+00
55	TSO000001	57.4294	58.0780	57.7044	1.7637e-01	1.9001e+00
56	TSO000002	75.4471	76.5091	75.9764	2.5237e-01	1.9000e+00
57	TAF020136	103.3659	105.5547	104.5689	4.1452e-01	1.9008e+00
58	TAF120312	218.4763	221.6225	219.9048	7.2537e-01	1.9151e+00
59	TAF130312	235.7134	239.1919	237.0810	7.6155e-01	1.9187e+00
60	EMPTY	3.9551	3.9844	3.9648	7.3821e-03	0.0000e+00
61	EMPTY	3.9307	3.9551	3.9436	4.8085e-03	0.0000e+00
62	EMPTY	3.9160	3.9355	3.9230	3.9656e-03	0.0000e+00
63	EMPTY	3.9063	3.9209	3.9127	3.0309e-03	0.0000e+00
64	EMPTY	1.8848	1.8945	1.8898	1.6972e-03	0.0000e+00
65	EMPTY	1.9043	1.9092	1.9048	1.4797e-03	0.0000e+00
66	EMPTY	1.9092	1.9141	1.9139	9.6655e-04	0.0000e+00
67	EMPTY	1.9238	1.9287	1.9241	1.1714e-03	0.0000e+00
68	EMPTY	1.9287	1.9336	1.9316	2.4164e-03	0.0000e+00
69	EMPTY	1.9385	1.9434	1.9431	1.1714e-03	0.0000e+00
70	EMPTY	1.9482	1.9531	1.9485	1.1714e-03	0.0000e+00
71	EMPTY	1.9629	1.9678	1.9637	1.8082e-03	0.0000e+00
72	EMPTY	1.9678	1.9727	1.9721	1.6028e-03	0.0000e+00
73	EMPTY	1.9824	1.9873	1.9836	2.1065e-03	0.0000e+00
74	EMPTY	1.9922	1.9971	1.9924	9.6655e-04	0.0000e+00
75	EMPTY	2.0020	2.0068	2.0033	2.2146e-03	0.0000e+00
76	EMPTY	2.0068	2.0117	2.0115	9.6655e-04	0.0000e+00
77	EMPTY	2.0166	2.0264	2.0230	2.5034e-03	0.0000e+00
78	EMPTY	2.0361	2.0410	2.0389	2.4484e-03	0.0000e+00
79	EMPTY	2.0508	2.0703	2.0560	2.2945e-03	0.0000e+00
80	PAN020136	-17.6913	-17.3861	-17.5250	7.6589e-02	8.7110e-01
81	PAN050136	-32.4581	-31.8478	-32.1926	1.6547e-01	1.6819e+00
82	PAN070136	-23.5863	-20.0767	-21.5935	1.0499e+00	8.7167e-01
83	PAN080136	-13.8795	-8.6152	-12.7580	1.5449e+00	8.7058e-01
84	PAN090136	-13.1753	-10.7339	-12.3498	7.3206e-01	8.7055e-01
85	PAN100136	-9.6730	-3.1118	-7.3858	1.2910e+00	8.7020e-01
86	PAN105136	-7.7020	3.3606	-3.1518	1.8952e+00	8.7004e-01
87	PAN110136	-7.0696	-3.7889	-4.9532	7.5082e-01	8.7009e-01
88	PAN115136	-5.9575	-2.7531	-4.5781	6.9410e-01	8.7008e-01
89	PAN120136	-5.2224	-3.3150	-4.4747	4.0635e-01	8.7007e-01
90	PAN125136	-5.3457	-3.2857	-4.4332	4.0163e-01	8.7007e-01
91	PAN130136	-5.6933	-4.3200	-5.1089	2.4107e-01	8.7009e-01
92	PAN120048	-10.2746	-7.6806	-9.2782	5.9065e-01	8.7031e-01
93	PAN130048	-9.9708	-9.1316	-9.6382	1.8988e-01	8.7033e-01
94	PAN120224	-12.2891	-6.8722	-8.4240	1.0342e+00	8.7025e-01
95	PAN130224	-10.3772	-8.6225	-9.8905	3.4805e-01	8.7035e-01
96	PAN120312	-13.7254	-8.0033	-9.5658	1.1918e+00	8.7033e-01
97	PAN130312	-10.6752	-7.7760	-9.4011	4.4653e-01	8.7032e-01
98	PAB000136	40.3654	40.5485	40.4652	4.8665e-02	5.8876e-01
99	PAB100136	43.7555	44.2591	44.0823	8.4766e-02	5.9038e-01
100	PAB125136	44.8488	45.0320	44.9313	4.8055e-02	5.9078e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2028	40.4470	40.3249	6.9754e-02	7.5675e-01
102	PRV000001	29.4842	29.6063	29.5404	6.1457e-02	7.5363e-01
103	PSR000001	45.0597	45.1818	45.1280	6.1209e-02	7.5844e-01
104	PFM000001	1.7324	1.9155	1.8203	7.1541e-02	5.0002e-01
105	PAN000136	-133.1649	-130.8760	-132.1761	5.8021e-01	4.9311e+00
106	PFM000002	1.7783	1.8455	1.8095	1.8259e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	0.0018	4.1573e-03	0.0000e+00
108	EMPTY	-10.0000	-4.9805	-7.8282	1.6146e+00	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0007	1.9754e-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	102.0245	102.4151	102.2666	1.0106e-01	1.0162e+00
113	VPW000002	119.0467	119.6327	119.3475	1.1975e-01	1.0811e+00
114	VPW000003	147.8178	148.2084	147.9467	1.0145e-01	1.2017e+00
115	VPW000004	104.8640	105.4500	105.2078	1.2823e-01	1.0269e+00
116	VPW000005	139.6522	140.2381	139.9140	1.2853e-01	1.1665e+00
117	VPW000006	148.4563	148.8469	148.6241	1.1168e-01	1.2047e+00
118	IPW000001	539.5978	547.4072	543.1121	1.5276e+00	9.1662e+00
119	IPW000002	1310.1273	1315.9812	1313.0933	1.9005e+00	1.3161e+01
120	IPW000003	1325.9999	1331.8499	1328.3784	1.7303e+00	1.3257e+01
121	IPW000004	377.7513	379.2161	378.4446	3.1335e-01	3.5970e+00
122	IPW000005	252.5851	253.5616	253.3076	2.6541e-01	2.8292e+00
123	IPW000006	261.7563	263.2212	262.6741	3.7745e-01	2.8820e+00
124	EMPTY	-0.0244	-0.0098	-0.0190	3.4527e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.9611e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0163	2.8946e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0155	2.9080e-03	0.0000e+00
128	IHT000001	127.7419	130.4762	129.0660	5.8699e-01	4.2983e+00
129	IHT000002	131.5955	134.3299	132.7323	5.4346e-01	4.3095e+00
130	IHT000003	132.1139	134.6530	133.1607	5.4213e-01	4.3108e+00
131	IHT000004	130.2096	132.5533	131.2134	4.9914e-01	4.3048e+00
132	IHT000005	128.4856	131.4153	129.7550	5.5419e-01	4.3004e+00
133	IHT000006	123.6065	125.9503	124.7354	5.6399e-01	4.2855e+00
134	IHT000007	130.6040	133.5337	131.9126	5.5278e-01	4.3070e+00
135	IHT000008	129.3795	131.7233	130.4185	5.2562e-01	4.3024e+00
136	IHT000009	129.5635	131.9073	130.6416	5.1936e-01	4.3031e+00
137	IHT000010	-41.2748	-38.5404	-39.8178	5.2971e-01	4.1193e+00
138	IHT000011	129.5260	131.6744	130.6744	4.7946e-01	4.3032e+00
139	IHT000012	127.1409	129.2894	128.3714	4.2361e-01	4.2963e+00
140	IHT000013	90.8203	92.9688	92.2109	4.5445e-01	4.2024e+00
141	IHT000014	127.3663	128.9288	128.2920	3.8624e-01	4.2960e+00
142	IHT000015	94.8167	96.1839	95.7386	3.5081e-01	4.2103e+00
143	IHT000016	88.7169	90.0841	89.4904	3.4391e-01	4.1965e+00
144	IHT000017	105.6566	108.3909	106.9417	6.4124e-01	4.2372e+00
145	IHT000018	107.1590	109.5027	108.3387	5.1442e-01	4.2407e+00
146	IHT000019	103.4781	105.6265	104.6890	4.6354e-01	4.2315e+00
147	IHT000020	106.0021	108.1505	107.2091	4.6970e-01	4.2379e+00
148	IHT000021	-2.8132	-0.2742	-1.4070	5.4391e-01	4.1000e+00
149	IHT000022	92.2739	93.8364	93.1684	3.9674e-01	4.2045e+00
150	IHT000023	104.1692	106.1223	105.1809	3.9791e-01	4.2328e+00
151	IHT000024	69.3773	71.1351	70.2874	3.7973e-01	4.1598e+00
152	IHT000025	104.5485	106.6970	105.6774	4.3097e-01	4.2340e+00
153	IHT000026	105.1307	107.0838	106.1385	3.9922e-01	4.2352e+00
154	IHT000027	89.7987	91.5565	90.8612	4.0271e-01	4.1995e+00
155	IHT000028	90.5536	94.0693	92.3310	6.8374e-01	4.2027e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.4246	107.7449	105.9246	6.5843e-01	4.2346e+00
157	IHT000030	106.6219	110.1375	108.1492	6.4680e-01	4.2402e+00
158	IHT000031	105.0556	108.3759	106.4150	6.3987e-01	4.2358e+00
159	IHT000032	106.3514	109.4764	107.7303	6.1815e-01	4.2392e+00
160	IHT000033	106.3740	109.4990	107.6904	6.1360e-01	4.2391e+00
161	IHT000034	93.5472	95.8909	94.5120	5.0287e-01	4.2075e+00
162	IHT000035	123.5277	125.6761	124.6410	5.0878e-01	4.2853e+00
163	IHT000036	92.2138	94.1669	93.2255	5.0175e-01	4.2047e+00

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Velocity 1 = 3.4824 (ft/sec) (+/- 14.1008 %)
Velocity 2 = 3.5070 (ft/sec) (+/- 5.2418 %)
Pressure drop = -4.7742 (psi)
Tsat in = 268.0705 (deg F) Tsat out = 274.3620 (deg F)
Phi inner = 99.5233 (kBtu/hr-ft2) (+/- 1.4166 %)
Phi outer = 100.4110 (kBtu/hr-ft2) (+/- 1.5430 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.3399	82.9758	82.6791	1.7656e-01	1.9001e+00
1	TRF000002	82.6820	83.3145	82.9772	1.4756e-01	1.9001e+00
2	TFM000001	87.2266	88.0665	87.6170	2.0113e-01	1.9002e+00
3	TIN000001	86.6805	87.3129	86.9462	1.5675e-01	1.9002e+00
4	TRV000001	87.5369	88.2710	87.9099	1.8578e-01	1.9002e+00
5	TSR000001	125.4583	128.7017	126.9476	6.4375e-01	1.9022e+00
6	TAO020136	69.7700	72.0102	70.6624	5.3129e-01	1.9000e+00
7	TAO050136	205.3355	206.4855	205.8148	2.8815e-01	1.9124e+00
8	TAO070136	208.6223	212.6670	210.0835	8.2401e-01	1.9132e+00
9	TAO080136	128.5549	130.2731	129.3145	3.6878e-01	1.9024e+00
10	TAO090136	250.8696	251.9891	251.3246	2.1471e-01	1.9220e+00
11	TAO100136	251.9816	253.7529	252.8318	4.5895e-01	1.9224e+00
12	TAO105136	259.1842	260.6733	259.8136	3.2329e-01	1.9241e+00
13	TAO110136	97.7033	98.2232	97.9538	1.4065e-01	1.9005e+00
14	TAO115136	262.8370	264.5060	263.7242	3.9364e-01	1.9251e+00
15	TAO120136	278.7993	279.7195	279.2997	1.7749e-01	1.9293e+00
16	TAO125136	158.3735	159.8596	158.8139	3.2056e-01	1.9053e+00
17	TAO130136	272.7963	273.8007	273.1650	2.0323e-01	1.9276e+00
18	TAO120048	109.7151	110.9524	110.4330	3.0316e-01	1.9011e+00
19	TAO130048	272.7294	273.6490	273.3023	1.8165e-01	1.9276e+00
20	TAO120224	275.5107	276.7070	276.1035	2.5174e-01	1.9284e+00
21	TAO130224	263.6015	265.4389	264.4603	3.8880e-01	1.9253e+00
22	TAO120312	269.8713	271.4422	270.6475	3.3821e-01	1.9269e+00
23	TAO130312	268.7235	269.4630	269.0083	1.7485e-01	1.9265e+00
24	TRT020000	190.0851	191.1569	190.6152	2.7564e-01	1.9098e+00
25	TRT070000	123.9874	125.4232	124.7668	3.0249e-01	1.9020e+00
26	TRT100000	260.3611	261.9366	261.2578	3.3351e-01	1.9245e+00
27	TRT120000	457.9189	458.2613	458.0900	9.6223e-02	1.9989e+00
28	TRT125000	101.7487	102.5775	102.1382	2.2663e-01	1.9007e+00
29	TRT130000	270.7968	272.3631	271.4531	2.6182e-01	1.9271e+00
30	EMPTY	39.3761	40.2940	39.9224	2.4042e-01	1.9011e+00
31	TAF050136	139.2639	141.2716	140.1484	4.3282e-01	1.9033e+00
32	TAF070136	163.2389	165.8982	164.4142	6.1978e-01	1.9060e+00
33	TAF080136	230.3791	247.6574	238.0801	4.2137e+00	1.9189e+00
34	TAF090136	95.6880	96.7311	96.1595	2.4579e-01	1.9005e+00
35	TAF100136	198.6486	203.2868	199.9640	1.0025e+00	1.9113e+00
36	TAF105136	204.7890	208.8888	206.3201	1.1171e+00	1.9125e+00
37	TAF110136	210.0184	215.7407	211.5036	1.0973e+00	1.9134e+00
38	TAF115136	217.1717	219.0757	218.1128	4.5629e-01	1.9147e+00
39	TAF120136	259.7341	261.4908	260.4218	3.7575e-01	1.9243e+00
40	TAF125136	229.5698	231.7283	230.4630	5.1678e-01	1.9173e+00
41	TAF130136	233.1904	235.1678	233.9738	4.3325e-01	1.9180e+00
42	TAF120048	222.2266	224.2365	223.3483	5.2819e-01	1.9158e+00
43	TAF130048	233.3941	235.7517	234.4697	5.2555e-01	1.9181e+00
44	TAF120224	219.1495	222.1914	220.4316	5.8656e-01	1.9152e+00
45	TAF130224	227.5886	229.4930	228.4688	3.8113e-01	1.9168e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1905	2.0956e-01	1.9010e+00
47	EMPTY	39.8352	40.5234	40.0784	1.5657e-01	1.9011e+00
48	TAI130048	273.0580	274.9930	274.0201	4.0016e-01	1.9278e+00
49	TAI130136	280.9457	281.9542	281.4954	2.2210e-01	1.9299e+00
50	TAI130224	276.4276	278.0877	277.2504	3.0493e-01	1.9287e+00
51	TAI130312	272.1463	273.3479	272.7676	3.0722e-01	1.9275e+00
52	TRR130000	59.5938	60.7692	60.1498	2.6926e-01	1.9001e+00
53	TSI000001	60.0518	60.9108	60.4983	2.0380e-01	1.9001e+00
54	TSI000002	88.4386	90.2192	89.1509	3.8550e-01	1.9002e+00
55	TSO000001	56.9970	57.8616	57.4161	2.1693e-01	1.9001e+00
56	TSO000002	75.2354	76.0855	75.7836	2.2224e-01	1.9000e+00
57	TAF020136	103.8865	106.0749	104.8625	4.3649e-01	1.9008e+00
58	TAF120312	218.0946	221.7173	220.1546	8.5016e-01	1.9151e+00
59	TAF130312	236.1833	238.4421	237.4257	6.1771e-01	1.9188e+00
60	EMPTY	3.9600	3.9893	3.9706	6.2926e-03	0.0000e+00
61	EMPTY	3.9404	3.9600	3.9494	3.9901e-03	0.0000e+00
62	EMPTY	3.9209	3.9404	3.9295	3.6326e-03	0.0000e+00
63	EMPTY	3.9160	3.9258	3.9198	2.2689e-03	0.0000e+00
64	EMPTY	1.8896	1.8994	1.8934	2.3261e-03	0.0000e+00
65	EMPTY	1.9043	1.9092	1.9086	1.6028e-03	0.0000e+00
66	EMPTY	1.9141	1.9189	1.9159	2.3941e-03	0.0000e+00
67	EMPTY	1.9238	1.9287	1.9283	1.3381e-03	0.0000e+00
68	EMPTY	1.9287	1.9434	1.9338	1.9631e-03	0.0000e+00
69	EMPTY	1.9434	1.9531	1.9444	2.2689e-03	0.0000e+00
70	EMPTY	1.9482	1.9531	1.9523	1.8082e-03	0.0000e+00
71	EMPTY	1.9629	1.9678	1.9675	1.1714e-03	0.0000e+00
72	EMPTY	1.9727	1.9775	1.9731	1.4797e-03	0.0000e+00
73	EMPTY	1.9824	1.9873	1.9869	1.3381e-03	0.0000e+00
74	EMPTY	1.9873	1.9971	1.9942	2.6267e-03	0.0000e+00
75	EMPTY	2.0020	2.0117	2.0062	1.8821e-03	0.0000e+00
76	EMPTY	2.0117	2.0166	2.0124	1.7115e-03	0.0000e+00
77	EMPTY	2.0215	2.0264	2.0262	9.6655e-04	0.0000e+00
78	EMPTY	2.0361	2.0410	2.0407	1.1714e-03	0.0000e+00
79	EMPTY	2.0557	2.0605	2.0560	1.1714e-03	0.0000e+00
80	PAN020136	-17.6913	-17.3861	-17.5494	7.5527e-02	8.7111e-01
81	PAN050136	-32.6107	-31.6952	-32.2231	1.8550e-01	1.6819e+00
82	PAN070136	-23.2048	-20.0767	-21.6850	1.0900e+00	8.7169e-01
83	PAN080136	-13.8795	-8.9204	-12.5932	1.4547e+00	8.7057e-01
84	PAN090136	-13.0990	-5.7748	-12.0171	1.5214e+00	8.7052e-01
85	PAN100136	-12.1908	-6.3161	-7.9564	1.1684e+00	8.7023e-01
86	PAN105136	-5.4132	1.7585	-3.2235	1.3504e+00	8.7004e-01
87	PAN110136	-7.2222	-3.0260	-4.8860	7.8744e-01	8.7009e-01
88	PAN115136	-6.4152	-2.5243	-4.3980	6.6192e-01	8.7007e-01
89	PAN120136	-6.6720	-3.8491	-4.8195	5.9956e-01	8.7008e-01
90	PAN125136	-5.2694	-2.9043	-4.4271	4.7781e-01	8.7007e-01
91	PAN130136	-5.5407	-4.5489	-5.0768	2.1952e-01	8.7009e-01
92	PAN120048	-12.0293	-8.3672	-9.6017	6.9442e-01	8.7033e-01
93	PAN130048	-10.1234	-8.7501	-9.5543	2.9416e-01	8.7033e-01
94	PAN120224	-9.2373	-7.2537	-8.4225	4.4525e-01	8.7025e-01
95	PAN130224	-10.4535	-9.3091	-9.9576	2.1757e-01	8.7036e-01
96	PAN120312	-13.6491	-8.5374	-9.7352	1.3686e+00	8.7034e-01
97	PAN130312	-10.1411	-8.3864	-9.4316	3.4818e-01	8.7032e-01
98	PAB000136	40.3654	40.5943	40.4734	5.0452e-02	5.8876e-01
99	PAB100136	43.9386	44.2133	44.0860	5.7969e-02	5.9038e-01
100	PAB125136	44.8488	45.0777	44.9377	5.7317e-02	5.9078e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.2028	40.3249	40.2321	5.2663e-02	7.5671e-01
102	PRV0000001	29.3621	29.6063	29.4842	2.4662e-02	7.5361e-01
103	PSR0000001	45.0597	45.1818	45.1036	5.9189e-02	7.5843e-01
104	PFM0000001	1.7324	1.9155	1.7855	6.9429e-02	5.0002e-01
105	PAN000136	-133.6226	-130.4183	-132.1761	6.9429e-01	4.9311e+00
106	PFM0000002	1.7783	1.8622	1.8116	1.9323e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	0.0012	4.0144e-03	0.0000e+00
108	EMPTY	-10.0000	-3.0518	-7.3724	2.0140e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0008	2.0598e-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	1.3811e-03	0.0000e+00
112	VPW0000001	102.0245	102.4151	102.1963	8.4997e-02	1.0159e+00
113	VPW0000002	119.0467	119.6327	119.3046	1.1464e-01	1.0810e+00
114	VPW0000003	147.6225	148.4037	147.8803	1.4466e-01	1.2014e+00
115	VPW0000004	104.8640	105.4500	105.1570	1.1334e-01	1.0267e+00
116	VPW0000005	139.8475	140.4334	140.0975	1.2503e-01	1.1673e+00
117	VPW0000006	148.4563	148.8469	148.6281	1.1599e-01	1.2047e+00
118	IPW0000001	563.0259	570.8353	568.1408	1.4700e+00	9.2604e+00
119	IPW0000002	1269.1508	1276.9558	1273.2483	1.6373e+00	1.2915e+01
120	IPW0000003	1298.6998	1304.5499	1301.1182	1.4507e+00	1.3087e+01
121	IPW0000004	383.1223	384.0989	383.3958	3.1444e-01	3.6296e+00
122	IPW0000005	252.0969	253.5616	252.8780	2.9591e-01	2.8268e+00
123	IPW0000006	259.8032	261.2681	260.3792	3.9075e-01	2.8690e+00
124	EMPTY	-0.0293	-0.0098	-0.0197	3.8155e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	3.0581e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	3.4527e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.0067e-03	0.0000e+00
128	IHT0000001	127.9372	130.4762	129.1246	6.5654e-01	4.2985e+00
129	IHT0000002	131.5955	133.7440	132.8221	5.9978e-01	4.3098e+00
130	IHT0000003	132.1139	134.6530	133.2466	5.9189e-01	4.3111e+00
131	IHT0000004	130.2096	132.5533	131.3345	5.9262e-01	4.3052e+00
132	IHT0000005	128.8762	130.6340	129.8293	4.9856e-01	4.3006e+00
133	IHT0000006	123.8018	125.7550	124.8096	4.9968e-01	4.2858e+00
134	IHT0000007	130.9946	133.3384	131.9907	4.8528e-01	4.3072e+00
135	IHT0000008	129.3795	131.9186	130.4224	4.8746e-01	4.3024e+00
136	IHT0000009	129.7589	132.2979	130.6338	4.8527e-01	4.3031e+00
137	IHT0000010	-40.6889	-38.7357	-39.7709	4.8688e-01	4.1192e+00
138	IHT0000011	129.7213	131.8697	130.7837	5.0093e-01	4.3035e+00
139	IHT0000012	127.5315	129.6800	128.4261	5.0082e-01	4.2964e+00
140	IHT0000013	91.4063	93.3594	92.2969	4.8030e-01	4.2026e+00
141	IHT0000014	127.7569	129.7101	128.5694	4.7900e-01	4.2969e+00
142	IHT0000015	95.0120	96.9651	95.8401	4.4740e-01	4.2105e+00
143	IHT0000016	88.7169	90.6701	89.5334	4.6470e-01	4.1966e+00
144	IHT0000017	105.4613	109.5628	107.1996	8.3356e-01	4.2378e+00
145	IHT0000018	107.3543	110.0886	108.3582	6.1131e-01	4.2408e+00
146	IHT0000019	103.6734	106.4078	104.7358	6.1150e-01	4.2317e+00
147	IHT0000020	106.1974	108.7365	107.2248	6.1233e-01	4.2379e+00
148	IHT0000021	-2.6179	0.1164	-1.2664	7.0348e-01	4.1000e+00
149	IHT0000022	92.0786	94.4223	93.2700	5.7757e-01	4.2048e+00
150	IHT0000023	104.1692	106.3176	105.2824	5.5699e-01	4.2330e+00
151	IHT0000024	69.3773	71.5257	70.3655	5.2111e-01	4.1599e+00
152	IHT0000025	104.7439	107.0876	105.7555	5.6316e-01	4.2342e+00
153	IHT0000026	105.3260	107.4745	106.2440	5.1486e-01	4.2354e+00
154	IHT0000027	90.1893	91.9471	91.0447	4.9895e-01	4.1999e+00
155	IHT0000028	91.1396	93.2880	92.1669	5.1116e-01	4.2023e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8152	107.1590	105.8192	5.4249e-01	4.2344e+00
157	IHT000030	106.8172	109.5515	108.0789	5.9479e-01	4.2401e+00
158	IHT000031	105.0556	107.9853	106.4111	6.3920e-01	4.2358e+00
159	IHT000032	106.3514	109.0858	107.7772	6.1162e-01	4.2393e+00
160	IHT000033	106.3740	109.1083	107.7334	6.0613e-01	4.2392e+00
161	IHT000034	93.3518	95.5003	94.6214	4.8688e-01	4.2078e+00
162	IHT000035	123.7230	126.0667	124.8441	5.2469e-01	4.2859e+00
163	IHT000036	92.2138	94.1669	93.2802	4.7385e-01	4.2048e+00

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Velocity 1 = 0.032900 (ft/sec)

Velocity 2 = 0.001900 (ft/sec)

Pressure Drop = 0.000000 (psi)

Tsat in = 0.012207 (deg F) Tsat out = 0.008606 (deg F)

Phi inner = 1.920502 (kBtu/hr-ft2) Phi outer = 0.633499 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0890	0.1078
1	TRF000002	0.1266	0.1528
2	TFM000001	0.0570	0.0651
3	TIN000001	0.0653	0.0752
4	TRV000001	0.0112	0.0127
5	TSR000001	2.7502	2.1205
6	TAO020136	0.2796	0.3941
7	TAO050136	0.4843	0.2359
8	TAO070136	0.0904	0.0430
9	TAO080136	0.9373	0.7196
10	TAO090136	0.3862	0.1539
11	TAO100136	0.3750	0.1485
12	TAO105136	0.4264	0.1644
13	TAO110136	3.2507	3.4325
14	TAO115136	0.4770	0.1812
15	TAO120136	0.4249	0.1524
16	TAO125136	8.7827	5.2404
17	TAO130136	0.3269	0.1198
18	TAO120048	2.3580	2.1818
19	TAO130048	0.2816	0.1031
20	TAO120224	0.3370	0.1222
21	TAO130224	0.3958	0.1499
22	TAO120312	0.4715	0.1745
23	TAO130312	0.2309	0.0859
24	TRT020000	0.2670	0.1403
25	TRT070000	6.1852	4.7233
26	TRT100000	0.2170	0.0831
27	TRT120000	0.0871	0.0190
28	TRT125000	5.0739	5.2274
29	TRT130000	0.2159	0.0796
30	EMPTY	0.0551	0.1382
31	TAF050136	0.0990	0.0707
32	TAF070136	0.4359	0.2658
33	TAF080136	0.4592	0.1925
34	TAF090136	2.4001	2.5599
35	TAF100136	0.1490	0.0746
36	TAF105136	0.4758	0.2311
37	TAF110136	0.3463	0.1640
38	TAF115136	0.3525	0.1619
39	TAF120136	0.3759	0.1446
40	TAF125136	0.2807	0.1219
41	TAF130136	0.3377	0.1445
42	TAF120048	0.1929	0.0864
43	TAF130048	0.2436	0.1040
44	TAF120224	0.1612	0.0731
45	TAF130224	0.1732	0.0759

#	Name	Abs Diff	%Diff
46	EMPTY	0.0689	0.1807
47	EMPTY	0.0321	0.0802
48	TAI130048	0.2711	0.0990
49	TAI130136	0.2146	0.0763
50	TAI130224	0.2011	0.0726
51	TAI130312	0.3641	0.1337
52	TRR130000	6.4399	9.6710
53	TSI000001	0.3272	0.5379
54	TSI000002	1.4033	1.5497
55	TSO000001	0.2883	0.4996
56	TSO000002	0.1928	0.2538
57	TAF020136	0.2936	0.2808
58	TAF120312	0.2498	0.1136
59	TAF130312	0.3447	0.1454
60	EMPTY	0.0058	0.1463
61	EMPTY	0.0058	0.1471
62	EMPTY	0.0065	0.1657
63	EMPTY	0.0071	0.1815
64	EMPTY	0.0036	0.1905
65	EMPTY	0.0038	0.1995
66	EMPTY	0.0020	0.1045
67	EMPTY	0.0042	0.2183
68	EMPTY	0.0022	0.1139
69	EMPTY	0.0013	0.0669
70	EMPTY	0.0038	0.1950
71	EMPTY	0.0038	0.1935
72	EMPTY	0.0010	0.0507
73	EMPTY	0.0033	0.1664
74	EMPTY	0.0018	0.0903
75	EMPTY	0.0029	0.1448
76	EMPTY	0.0009	0.0447
77	EMPTY	0.0032	0.1582
78	EMPTY	0.0018	0.0883
79	EMPTY	0.0000	0.0000
80	PAN020136	0.0244	0.1392
81	PAN050136	0.0305	0.0947
82	PAN070136	0.0915	0.4237
83	PAN080136	0.1648	1.2917
84	PAN090136	0.3327	2.6940
85	PAN100136	0.5706	7.7256
86	PAN105136	0.0717	2.2749
87	PAN110136	0.0672	1.3567
88	PAN115136	0.1801	3.9340
89	PAN120136	0.3448	7.7055
90	PAN125136	0.0061	0.1376
91	PAN130136	0.0321	0.6283
92	PAN120048	0.3235	3.4867
93	PAN130048	0.0839	0.8705
94	PAN120224	0.0015	0.0178
95	PAN130224	0.0671	0.6784
96	PAN120312	0.1694	1.7709
97	PAN130312	0.0305	0.3244
98	PAB000136	0.0082	0.0203
99	PAB100136	0.0037	0.0084
100	PAB125136	0.0064	0.0142

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0928	0.2301
102	PRV000001	0.0562	0.1902
103	PSR000001	0.0244	0.0541
104	PFM000001	0.0348	1.9118
105	PAN000136	0.0000	0.0000
106	PFM000002	0.0021	0.1161
107	EMPTY	0.0006	33.3333
108	EMPTY	0.4558	5.8225
109	EMPTY	0.0001	14.2857
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.0703	0.0687
113	VPW000002	0.0429	0.0359
114	VPW000003	0.0664	0.0449
115	VPW000004	0.0508	0.0483
116	VPW000005	0.1835	0.1312
117	VPW000006	0.0040	0.0027
118	IPW000001	25.0287	4.6084
119	IPW000002	39.8450	3.0344
120	IPW000003	27.2603	2.0521
121	IPW000004	4.9512	1.3083
122	IPW000005	0.4296	0.1696
123	IPW000006	2.2949	0.8737
124	EMPTY	0.0007	3.6842
125	EMPTY	0.0010	7.1429
126	EMPTY	0.0002	1.2270
127	EMPTY	0.0002	1.2903
128	IHT000001	0.0586	0.0454
129	IHT000002	0.0898	0.0677
130	IHT000003	0.0859	0.0645
131	IHT000004	0.1211	0.0923
132	IHT000005	0.0743	0.0573
133	IHT000006	0.0742	0.0595
134	IHT000007	0.0781	0.0592
135	IHT000008	0.0039	0.0030
136	IHT000009	0.0078	0.0060
137	IHT000010	0.0469	0.1178
138	IHT000011	0.1093	0.0837
139	IHT000012	0.0547	0.0426
140	IHT000013	0.0860	0.0933
141	IHT000014	0.2774	0.2162
142	IHT000015	0.1015	0.1060
143	IHT000016	0.0430	0.0480
144	IHT000017	0.2579	0.2412
145	IHT000018	0.0195	0.0180
146	IHT000019	0.0468	0.0447
147	IHT000020	0.0157	0.0146
148	IHT000021	0.1406	9.9929
149	IHT000022	0.1016	0.1090
150	IHT000023	0.1015	0.0965
151	IHT000024	0.0781	0.1111
152	IHT000025	0.0781	0.0739
153	IHT000026	0.1055	0.0994
154	IHT000027	0.1835	0.2020
155	IHT000028	0.1641	0.1777

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1054	0.0995
157	IHT000030	0.0703	0.0650
158	IHT000031	0.0039	0.0037
159	IHT000032	0.0469	0.0435
160	IHT000033	0.0430	0.0399
161	IHT000034	0.1094	0.1158
162	IHT000035	0.2031	0.1629
163	IHT000036	0.0547	0.0587

Velocity 1 = 3.4474 (ft/sec) (+/- 14.3920 %)
Velocity 2 = 3.4012 (ft/sec) (+/- 5.5484 %)
Pressure drop = -4.7785 (psi)
Tsat in = 267.8866 (deg F) Tsat out = 274.2173 (deg F)
Phi inner = 99.5879 (kBtu/hr-ft2) (+/- 1.4165 %)
Phi outer = 100.4531 (kBtu/hr-ft2) (+/- 1.5428 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.3399	83.1877	82.7300	2.0248e-01	1.9001e+00
1	TRF000002	82.6820	83.3145	83.0025	1.3631e-01	1.9001e+00
2	TFM000001	87.2266	88.0675	87.5418	1.8724e-01	1.9002e+00
3	TIN000001	86.6806	87.2067	86.8663	1.1379e-01	1.9002e+00
4	TRV000001	87.3273	88.2710	87.8474	2.3571e-01	1.9002e+00
5	TSR000001	127.4854	130.6232	129.2275	8.4710e-01	1.9024e+00
6	TAO020136	68.7019	70.6249	69.8728	3.8525e-01	1.9000e+00
7	TAO050136	207.5326	208.9663	208.2323	3.2146e-01	1.9128e+00
8	TAO070136	210.3572	215.0696	212.5397	1.1927e+00	1.9136e+00
9	TAO080136	129.8677	131.0797	130.4326	3.3482e-01	1.9025e+00
10	TAO090136	253.3839	254.4091	253.9504	2.4879e-01	1.9227e+00
11	TAO100136	255.5193	257.4718	256.4608	4.1169e-01	1.9233e+00
12	TAO105136	262.0677	263.5546	263.0304	2.9126e-01	1.9249e+00
13	TAO110136	98.1165	98.8449	98.4452	1.5458e-01	1.9005e+00
14	TAO115136	265.6186	267.5629	266.5895	3.8036e-01	1.9259e+00
15	TAO120136	281.9224	283.0244	282.5027	2.3285e-01	1.9302e+00
16	TAO125136	159.1664	159.9594	159.4998	1.8982e-01	1.9054e+00
17	TAO130136	275.7010	276.6154	276.2371	2.0031e-01	1.9284e+00
18	TAO120048	110.6422	111.6738	111.2119	2.8184e-01	1.9011e+00
19	TAO130048	276.4906	277.1343	276.7481	1.4979e-01	1.9286e+00
20	TAO120224	278.7287	279.5556	279.1070	2.0488e-01	1.9292e+00
21	TAO130224	266.8129	268.4609	267.5775	3.8412e-01	1.9261e+00
22	TAO120312	272.9189	274.0269	273.5320	2.1084e-01	1.9277e+00
23	TAO130312	271.8544	272.6853	272.2567	2.0638e-01	1.9274e+00
24	TRT020000	191.5463	193.5894	192.5192	4.1041e-01	1.9101e+00
25	TRT070000	124.0886	125.1154	124.5573	2.7125e-01	1.9020e+00
26	TRT100000	263.9684	265.1723	264.5535	3.2334e-01	1.9253e+00
27	TRT120000	457.9192	458.3469	458.1208	9.8969e-02	1.9989e+00
28	TRT125000	101.4399	102.3713	101.8539	2.1010e-01	1.9007e+00
29	TRT130000	274.6593	275.3962	275.0168	1.4610e-01	1.9281e+00
30	EMPTY	39.3761	40.2940	39.8673	2.1751e-01	1.9011e+00
31	TAF050136	140.7697	142.0734	141.3804	3.4567e-01	1.9034e+00
32	TAF070136	165.3066	168.6459	166.4636	7.8082e-01	1.9063e+00
33	TAF080136	239.9255	246.7267	242.0684	1.3374e+00	1.9198e+00
34	TAF090136	95.4796	96.8359	96.1513	3.1598e-01	1.9005e+00
35	TAF100136	201.1629	205.6963	203.2517	1.1573e+00	1.9119e+00
36	TAF105136	207.3636	212.0244	209.3861	1.3295e+00	1.9130e+00
37	TAF110136	212.6909	217.6430	214.4518	1.1826e+00	1.9140e+00
38	TAF115136	219.6450	222.2090	220.8085	4.6994e-01	1.9153e+00
39	TAF120136	261.7683	263.6121	262.7341	4.4854e-01	1.9249e+00
40	TAF125136	232.7579	234.1639	233.3993	4.0362e-01	1.9179e+00
41	TAF130136	236.2016	237.7068	236.9766	3.3923e-01	1.9187e+00
42	TAF120048	225.0956	227.9596	226.3524	6.5521e-01	1.9164e+00
43	TAF130048	236.6935	238.9523	237.6459	4.7182e-01	1.9188e+00
44	TAF120224	221.8115	225.2292	223.2172	7.7373e-01	1.9157e+00
45	TAF130224	230.2543	232.2514	231.1827	4.2201e-01	1.9174e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1445	2.2641e-01	1.9010e+00
47	EMPTY	39.8352	40.5234	40.1289	1.6083e-01	1.9011e+00
48	TAI130048	275.1760	276.5574	275.7587	3.5612e-01	1.9283e+00
49	TAI130136	283.7815	284.8794	284.2242	2.4409e-01	1.9307e+00
50	TAI130224	279.5613	281.1266	280.2946	3.4999e-01	1.9296e+00
51	TAI130312	275.2847	276.4834	275.8083	3.3246e-01	1.9283e+00
52	TRR130000	61.4099	63.2278	62.3854	4.2496e-01	1.9000e+00
53	TSI000001	60.2661	61.0187	60.6656	1.7359e-01	1.9001e+00
54	TSI000002	88.2291	89.3824	88.7995	2.9578e-01	1.9002e+00
55	TSO000001	56.7804	57.8616	57.4680	2.3404e-01	1.9001e+00
56	TSO000002	75.7658	76.7215	76.2248	2.1278e-01	1.9000e+00
57	TAF020136	104.0954	106.6997	105.3669	5.0777e-01	1.9008e+00
58	TAF120312	221.0511	224.0011	222.4595	6.2507e-01	1.9156e+00
59	TAF130312	239.0049	241.6340	240.5184	5.7593e-01	1.9195e+00
60	EMPTY	4.0381	4.0625	4.0485	5.5812e-03	0.0000e+00
61	EMPTY	4.0234	4.0332	4.0271	3.3540e-03	0.0000e+00
62	EMPTY	3.9990	4.0137	4.0059	2.7902e-03	0.0000e+00
63	EMPTY	3.9893	4.0039	3.9957	2.8659e-03	0.0000e+00
64	EMPTY	1.9238	1.9336	1.9285	1.6972e-03	0.0000e+00
65	EMPTY	1.9434	1.9531	1.9438	1.7784e-03	0.0000e+00
66	EMPTY	1.9482	1.9531	1.9518	2.2146e-03	0.0000e+00
67	EMPTY	1.9629	1.9678	1.9630	6.9053e-04	0.0000e+00
68	EMPTY	1.9678	1.9727	1.9687	1.8950e-03	0.0000e+00
69	EMPTY	1.9775	1.9824	1.9800	2.4662e-03	0.0000e+00
70	EMPTY	1.9873	1.9873	1.9873	0.0000e+00	0.0000e+00
71	EMPTY	1.9971	2.0117	2.0022	1.8216e-03	0.0000e+00
72	EMPTY	2.0068	2.0117	2.0090	2.4484e-03	0.0000e+00
73	EMPTY	2.0215	2.0264	2.0216	6.9053e-04	0.0000e+00
74	EMPTY	2.0264	2.0313	2.0309	1.3381e-03	0.0000e+00
75	EMPTY	2.0361	2.0459	2.0410	9.8648e-04	0.0000e+00
76	EMPTY	2.0410	2.0557	2.0474	2.6562e-03	0.0000e+00
77	EMPTY	2.0557	2.0654	2.0605	1.3951e-03	0.0000e+00
78	EMPTY	2.0752	2.0898	2.0756	2.1703e-03	0.0000e+00
79	EMPTY	2.0850	2.0947	2.0911	2.3778e-03	0.0000e+00
80	PAN020136	-17.9202	-17.5387	-17.6821	8.9399e-02	8.7112e-01
81	PAN050136	-32.9159	-32.1529	-32.4185	1.7111e-01	1.6820e+00
82	PAN070136	-23.8152	-20.3819	-22.0894	1.2273e+00	8.7175e-01
83	PAN080136	-13.9558	-11.3618	-13.2478	7.6170e-01	8.7063e-01
84	PAN090136	-12.1072	-7.0718	-10.2822	1.0499e+00	8.7038e-01
85	PAN100136	-12.1908	-5.3243	-8.6156	1.4195e+00	8.7027e-01
86	PAN105136	-7.4731	3.3606	-3.8308	1.7058e+00	8.7005e-01
87	PAN110136	-7.2984	-2.4156	-4.6999	1.1169e+00	8.7008e-01
88	PAN115136	-7.5597	-2.0665	-4.7246	9.7318e-01	8.7008e-01
89	PAN120136	-5.2224	-3.0861	-4.5266	4.4236e-01	8.7007e-01
90	PAN125136	-5.0405	-4.1250	-4.5156	2.1942e-01	8.7007e-01
91	PAN130136	-5.3118	-4.6252	-5.0936	1.6673e-01	8.7009e-01
92	PAN120048	-10.3509	-7.4517	-9.5956	6.2578e-01	8.7033e-01
93	PAN130048	-9.8945	-9.2079	-9.5772	1.6698e-01	8.7033e-01
94	PAN120224	-12.2891	-6.3382	-8.4393	1.0999e+00	8.7026e-01
95	PAN130224	-10.3772	-9.2328	-9.8798	2.3591e-01	8.7035e-01
96	PAN120312	-9.9107	-7.3930	-9.0409	4.6676e-01	8.7029e-01
97	PAN130312	-9.9122	-9.2256	-9.5842	1.6902e-01	8.7033e-01
98	PAB000136	40.2739	40.4112	40.3489	4.6019e-02	5.8871e-01
99	PAB100136	43.6640	44.0759	43.9386	6.2725e-02	5.9031e-01
100	PAB125136	44.7573	44.9404	44.8306	4.4353e-02	5.9073e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8366	40.2028	40.0710	1.0417e-01	7.5666e-01
102	PRV000001	29.3621	29.6063	29.4964	4.4460e-02	7.5362e-01
103	PSR000001	44.8156	45.0597	45.0011	6.6358e-02	7.5839e-01
104	PFM000001	1.5493	1.9155	1.7489	7.5564e-02	5.0002e-01
105	PAN000136	-133.1649	-131.3338	-132.2951	4.4593e-01	4.9311e+00
106	PFM000002	1.6609	1.7448	1.7011	1.6608e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	0.0034	2.6562e-03	0.0000e+00
108	EMPTY	-10.0000	-1.7383	-8.0690	1.9107e+00	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	102.0245	102.4151	102.1729	1.0849e-01	1.0158e+00
113	VPW000002	119.0467	119.4374	119.2889	1.0849e-01	1.0809e+00
114	VPW000003	147.6225	148.2084	147.9272	1.1272e-01	1.2016e+00
115	VPW000004	104.6687	105.4500	105.2078	1.4530e-01	1.0269e+00
116	VPW000005	139.8475	140.4334	140.1561	1.3141e-01	1.1676e+00
117	VPW000006	148.4563	149.0422	148.7491	1.4363e-01	1.2053e+00
118	IPW000001	563.0259	570.8353	567.9457	2.0205e+00	9.2597e+00
119	IPW000002	1269.1508	1278.9071	1273.9122	1.7700e+00	1.2919e+01
120	IPW000003	1298.6998	1304.5499	1301.6249	1.8161e+00	1.3090e+01
121	IPW000004	383.1223	385.0755	383.8060	6.1605e-01	3.6323e+00
122	IPW000005	252.0969	253.5616	252.9952	3.1749e-01	2.8275e+00
123	IPW000006	259.3149	261.2681	260.2620	5.0696e-01	2.8683e+00
124	EMPTY	-0.0293	-0.0098	-0.0188	4.4512e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	3.0581e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0147	4.1256e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0148	3.9410e-03	0.0000e+00
128	IHT000001	127.7419	130.6716	129.0660	6.1547e-01	4.2983e+00
129	IHT000002	131.5955	134.1346	132.7010	6.0696e-01	4.3094e+00
130	IHT000003	132.1139	134.6530	133.2427	6.0912e-01	4.3111e+00
131	IHT000004	130.2096	132.7486	131.3267	6.3263e-01	4.3052e+00
132	IHT000005	128.8762	131.2199	129.8097	5.7493e-01	4.3006e+00
133	IHT000006	123.8018	126.1456	124.8018	5.8079e-01	4.2857e+00
134	IHT000007	131.1899	133.3384	131.9946	5.4052e-01	4.3072e+00
135	IHT000008	129.5748	131.7233	130.4615	4.8842e-01	4.3026e+00
136	IHT000009	129.7589	132.1026	130.6768	5.1938e-01	4.3032e+00
137	IHT000010	-40.6889	-38.3451	-39.7592	5.6160e-01	4.1192e+00
138	IHT000011	129.9166	132.2603	130.8111	5.4403e-01	4.3036e+00
139	IHT000012	127.3362	129.4847	128.4417	4.8746e-01	4.2965e+00
140	IHT000013	91.2109	93.3594	92.2617	4.4971e-01	4.2025e+00
141	IHT000014	127.5616	129.7101	128.5459	4.6179e-01	4.2968e+00
142	IHT000015	95.0120	96.9651	95.8440	4.4083e-01	4.2105e+00
143	IHT000016	88.5216	90.4747	89.4279	4.0771e-01	4.1964e+00
144	IHT000017	105.4613	109.3675	107.1683	8.3781e-01	4.2377e+00
145	IHT000018	107.1590	109.6980	108.2762	5.5529e-01	4.2406e+00
146	IHT000019	103.4781	106.0171	104.7007	5.5357e-01	4.2316e+00
147	IHT000020	106.1974	108.5412	107.2169	5.9227e-01	4.2379e+00
148	IHT000021	-2.6179	0.1164	-1.2781	6.4959e-01	4.1000e+00
149	IHT000022	92.0786	94.6176	93.1841	5.1992e-01	4.2046e+00
150	IHT000023	104.3645	106.5129	105.2355	5.0872e-01	4.2329e+00
151	IHT000024	69.3773	71.5257	70.3108	4.3636e-01	4.1599e+00
152	IHT000025	104.7439	107.0876	105.7243	4.7595e-01	4.2341e+00
153	IHT000026	105.1307	107.2792	106.2127	4.9318e-01	4.2353e+00
154	IHT000027	89.7987	91.9471	90.8729	4.5720e-01	4.1995e+00
155	IHT000028	90.9443	93.6786	92.2138	6.1289e-01	4.2024e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8152	107.3543	105.9012	6.3154e-01	4.2346e+00
157	IHT000030	107.0125	109.5515	108.1492	6.2101e-01	4.2402e+00
158	IHT000031	105.2509	107.7900	106.4853	6.2195e-01	4.2360e+00
159	IHT000032	106.7420	109.0858	107.8358	6.2639e-01	4.2394e+00
160	IHT000033	106.7646	108.9130	107.7881	6.2335e-01	4.2393e+00
161	IHT000034	93.5472	95.5003	94.6995	4.8045e-01	4.2079e+00
162	IHT000035	123.7230	125.8714	124.9105	4.9101e-01	4.2861e+00
163	IHT000036	92.4091	94.1669	93.3544	4.7900e-01	4.2049e+00

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Velocity 1 = 3.4386 (ft/sec) (+/- 14.4667 %)
Velocity 2 = 3.3708 (ft/sec) (+/- 5.6427 %)
Pressure drop = -4.7805 (psi)
Tsat in = 267.9001 (deg F) Tsat out = 274.2408 (deg F)
Phi inner = 99.3988 (kBtu/hr-ft2) (+/- 1.4170 %)
Phi outer = 100.6914 (kBtu/hr-ft2) (+/- 1.5420 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.5519	83.1877	82.8741	1.4979e-01	1.9001e+00
1	TRF000002	82.8929	83.3145	83.0657	1.5173e-01	1.9001e+00
2	TFM000001	87.3322	88.0675	87.6618	1.9663e-01	1.9002e+00
3	TIN000001	86.6812	87.3129	87.0117	1.5038e-01	1.9002e+00
4	TRV000001	87.4328	88.3760	87.9465	2.4866e-01	1.9002e+00
5	TSR000001	128.4993	131.8366	130.0269	1.1600e+00	1.9024e+00
6	TAO020136	69.4500	72.3298	70.9591	7.7224e-01	1.9000e+00
7	TAO050136	208.2011	209.4436	208.6739	2.7586e-01	1.9129e+00
8	TAO070136	210.9350	216.1254	213.0916	1.1492e+00	1.9137e+00
9	TAO080136	129.8697	131.5822	130.7462	3.4449e-01	1.9025e+00
10	TAO090136	254.1298	255.1530	254.5891	2.0646e-01	1.9228e+00
11	TAO100136	256.1708	258.4944	257.3515	5.1625e-01	1.9235e+00
12	TAO105136	263.0899	264.3901	263.7717	3.0459e-01	1.9251e+00
13	TAO110136	96.8802	97.6068	97.1528	1.8384e-01	1.9005e+00
14	TAO115136	266.3605	267.8420	267.1286	3.4198e-01	1.9260e+00
15	TAO120136	282.7491	283.7579	283.2240	2.0111e-01	1.9304e+00
16	TAO125136	159.6626	162.2367	160.9399	7.7659e-01	1.9056e+00
17	TAO130136	276.7009	277.5218	277.1001	2.2861e-01	1.9287e+00
18	TAO120048	110.7459	111.8804	111.4121	3.0097e-01	1.9012e+00
19	TAO130048	277.1330	277.7760	277.4581	1.4978e-01	1.9288e+00
20	TAO120224	279.2796	280.1982	279.7666	2.3346e-01	1.9294e+00
21	TAO130224	267.3621	269.0105	268.3717	3.3361e-01	1.9263e+00
22	TAO120312	273.7497	274.8567	274.1429	2.4211e-01	1.9279e+00
23	TAO130312	272.3163	273.3276	272.8587	1.8062e-01	1.9275e+00
24	TRT020000	192.4219	194.1720	193.2059	3.8108e-01	1.9102e+00
25	TRT070000	124.9101	126.3463	125.7332	3.6043e-01	1.9021e+00
26	TRT100000	264.6178	265.9105	265.1360	2.3380e-01	1.9255e+00
27	TRT120000	458.0898	458.3469	458.2048	9.0746e-02	1.9989e+00
28	TRT125000	99.3768	100.2057	99.7927	2.1403e-01	1.9006e+00
29	TRT130000	275.3947	276.2227	275.7392	1.5644e-01	1.9283e+00
30	EMPTY	39.3761	40.2940	39.8076	2.4377e-01	1.9011e+00
31	TAF050136	140.9717	142.5772	141.6839	3.6828e-01	1.9035e+00
32	TAF070136	164.9149	168.9413	167.1934	7.4395e-01	1.9064e+00
33	TAF080136	238.8096	246.9121	242.5628	1.9901e+00	1.9200e+00
34	TAF090136	94.5425	95.5863	95.1287	2.6559e-01	1.9004e+00
35	TAF100136	202.0318	206.6599	203.8517	1.3595e+00	1.9120e+00
36	TAF105136	208.0314	212.5021	209.3095	9.5021e-01	1.9130e+00
37	TAF110136	213.4536	215.9298	214.4319	5.6595e-01	1.9140e+00
38	TAF115136	220.4061	222.3062	221.3920	4.3531e-01	1.9154e+00
39	TAF120136	262.4139	265.1797	263.2977	4.6914e-01	1.9250e+00
40	TAF125136	233.1331	235.2868	234.1138	4.4171e-01	1.9181e+00
41	TAF130136	236.7661	238.3635	237.5204	3.5545e-01	1.9188e+00
42	TAF120048	226.1466	227.6734	227.0529	4.0818e-01	1.9165e+00
43	TAF130048	237.6355	239.7984	238.5363	4.5527e-01	1.9190e+00
44	TAF120224	222.4770	225.0392	223.8118	6.1016e-01	1.9159e+00
45	TAF130224	231.1108	232.5364	231.8690	3.3277e-01	1.9176e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1353	2.2756e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0555	9.2244e-02	1.9011e+00
48	TAI130048	275.2686	276.9260	276.1179	3.9673e-01	1.9284e+00
49	TAI130136	284.3302	285.3364	284.8917	3.0351e-01	1.9309e+00
50	TAI130224	280.3903	281.4950	280.9850	2.9701e-01	1.9298e+00
51	TAI130312	275.8379	277.3123	276.5107	3.4336e-01	1.9285e+00
52	TRR130000	55.4139	57.9887	56.7556	7.2475e-01	1.9001e+00
53	TSI000001	60.6956	61.5525	61.0324	2.1225e-01	1.9001e+00
54	TSI000002	85.2941	87.4975	86.5514	5.3378e-01	1.9002e+00
55	TSO000001	57.4288	58.1861	57.7340	2.0913e-01	1.9001e+00
56	TSO000002	76.2971	77.1454	76.7149	2.3117e-01	1.9000e+00
57	TAF020136	104.7203	106.8036	105.6687	4.9985e-01	1.9009e+00
58	TAF120312	221.7177	224.0961	223.0403	5.7473e-01	1.9157e+00
59	TAF130312	239.9436	242.6647	241.1927	6.0892e-01	1.9196e+00
60	EMPTY	4.0527	4.0771	4.0648	5.0532e-03	0.0000e+00
61	EMPTY	4.0381	4.0527	4.0437	3.6924e-03	0.0000e+00
62	EMPTY	4.0186	4.0283	4.0223	3.2057e-03	0.0000e+00
63	EMPTY	4.0088	4.0186	4.0129	3.4681e-03	0.0000e+00
64	EMPTY	1.9336	1.9385	1.9369	2.3008e-03	0.0000e+00
65	EMPTY	1.9482	1.9531	1.9514	2.3675e-03	0.0000e+00
66	EMPTY	1.9531	1.9629	1.9586	1.8821e-03	0.0000e+00
67	EMPTY	1.9678	1.9824	1.9717	2.6100e-03	0.0000e+00
68	EMPTY	1.9727	1.9824	1.9773	1.3811e-03	0.0000e+00
69	EMPTY	1.9824	1.9922	1.9875	1.3811e-03	0.0000e+00
70	EMPTY	1.9922	1.9971	1.9953	2.3675e-03	0.0000e+00
71	EMPTY	2.0068	2.0117	2.0104	2.1635e-03	0.0000e+00
72	EMPTY	2.0117	2.0215	2.0166	9.8648e-04	0.0000e+00
73	EMPTY	2.0215	2.0313	2.0287	2.6543e-03	0.0000e+00
74	EMPTY	2.0361	2.0410	2.0363	9.6655e-04	0.0000e+00
75	EMPTY	2.0459	2.0605	2.0480	2.9856e-03	0.0000e+00
76	EMPTY	2.0459	2.0557	2.0554	1.5314e-03	0.0000e+00
77	EMPTY	2.0654	2.0703	2.0660	1.6028e-03	0.0000e+00
78	EMPTY	2.0801	2.0850	2.0816	2.3008e-03	0.0000e+00
79	EMPTY	2.0947	2.0996	2.0990	1.6028e-03	0.0000e+00
80	PAN020136	-17.9202	-17.6150	-17.7340	7.7315e-02	8.7113e-01
81	PAN050136	-33.0685	-32.3055	-32.6321	2.0217e-01	1.6820e+00
82	PAN070136	-23.9677	-20.3819	-22.1840	1.1743e+00	8.7177e-01
83	PAN080136	-13.9558	-7.4708	-13.1593	1.0780e+00	8.7062e-01
84	PAN090136	-13.1753	-0.6631	-9.4704	2.4599e+00	8.7032e-01
85	PAN100136	-12.1908	-3.4932	-9.0184	1.6488e+00	8.7029e-01
86	PAN105136	-7.6257	-2.8192	-4.3191	9.4309e-01	8.7007e-01
87	PAN110136	-5.6200	-2.6445	-4.2925	5.5468e-01	8.7007e-01
88	PAN115136	-5.5760	-3.9738	-4.8985	3.1044e-01	8.7009e-01
89	PAN120136	-5.2987	-3.6202	-4.5754	3.3531e-01	8.7008e-01
90	PAN125136	-5.0405	-3.5909	-4.4744	2.9732e-01	8.7007e-01
91	PAN130136	-5.3881	-4.7015	-5.0753	1.8384e-01	8.7009e-01
92	PAN120048	-10.6561	-8.9776	-9.9526	3.7130e-01	8.7036e-01
93	PAN130048	-9.8183	-9.2079	-9.5131	1.4043e-01	8.7033e-01
94	PAN120224	-9.3136	-8.0166	-8.7582	2.8961e-01	8.7028e-01
95	PAN130224	-10.2246	-9.3091	-9.8706	1.7893e-01	8.7035e-01
96	PAN120312	-10.0633	-7.8508	-9.0913	5.3190e-01	8.7030e-01
97	PAN130312	-9.9122	-9.0730	-9.5888	1.6783e-01	8.7033e-01
98	PAB000136	40.2281	40.4570	40.3581	4.8374e-02	5.8871e-01
99	PAB100136	43.7097	44.1217	43.9707	7.3551e-02	5.9033e-01
100	PAB125136	44.7573	44.9404	44.8479	4.3858e-02	5.9074e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8366	40.3249	40.0783	1.0314e-01	7.5666e-01
102	PRV000001	29.3621	29.4842	29.3963	5.5366e-02	7.5359e-01
103	PSR000001	44.9376	45.0597	45.0206	5.7521e-02	7.5840e-01
104	PFM000001	1.6409	2.0071	1.7398	8.2387e-02	5.0002e-01
105	PAN000136	-134.0804	-130.4183	-132.3501	8.0247e-01	4.9311e+00
106	PFM000002	1.6273	1.6944	1.6699	1.5976e-02	2.0004e-01
107	EMPTY	-0.0049	0.0049	0.0041	2.2839e-03	0.0000e+00
108	EMPTY	-10.0000	-5.1660	-7.3026	1.3740e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0030	2.3941e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	102.0245	102.6104	102.3682	1.8322e-01	1.0165e+00
113	VPW000002	119.2421	120.0233	119.4335	1.6967e-01	1.0815e+00
114	VPW000003	147.4271	148.0131	147.7553	1.4466e-01	1.2008e+00
115	VPW000004	105.0593	105.4500	105.2078	1.3416e-01	1.0269e+00
116	VPW000005	139.8475	140.2381	140.0741	1.2701e-01	1.1672e+00
117	VPW000006	148.4563	149.0422	148.7804	1.2232e-01	1.2054e+00
118	IPW000001	563.0259	574.7399	568.6097	3.0042e+00	9.2622e+00
119	IPW000002	1271.1019	1280.8583	1276.3704	2.2387e+00	1.2934e+01
120	IPW000003	1296.7499	1304.5499	1300.3375	2.2062e+00	1.3082e+01
121	IPW000004	383.6106	385.0755	384.2064	4.4435e-01	3.6349e+00
122	IPW000005	251.6087	253.5616	252.9951	3.7379e-01	2.8275e+00
123	IPW000006	259.3149	260.7798	260.0374	3.7226e-01	2.8671e+00
124	EMPTY	-0.0244	-0.0098	-0.0171	3.9766e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0121	2.9986e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0130	3.7706e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0151	4.2142e-03	0.0000e+00
128	IHT000001	127.9372	130.0856	129.0426	5.4905e-01	4.2983e+00
129	IHT000002	131.5955	134.1346	132.6659	5.6667e-01	4.3093e+00
130	IHT000003	132.1139	134.4576	133.1490	5.4854e-01	4.3108e+00
131	IHT000004	130.0143	132.5533	131.2603	5.9042e-01	4.3050e+00
132	IHT000005	128.2903	130.6340	129.6691	5.2111e-01	4.3002e+00
133	IHT000006	123.4112	125.7550	124.6494	5.0472e-01	4.2853e+00
134	IHT000007	130.7993	132.9477	131.8696	4.7390e-01	4.3069e+00
135	IHT000008	129.3795	131.3326	130.3521	4.4379e-01	4.3022e+00
136	IHT000009	129.3682	131.5167	130.5322	4.6848e-01	4.3028e+00
137	IHT000010	-41.0795	-38.7357	-39.8373	5.1260e-01	4.1193e+00
138	IHT000011	129.7213	132.4557	130.9439	5.5916e-01	4.3040e+00
139	IHT000012	127.5315	130.0706	128.5902	5.5396e-01	4.2969e+00
140	IHT000013	91.2109	93.9453	92.3008	5.4689e-01	4.2026e+00
141	IHT000014	127.5616	130.2960	128.5342	5.4461e-01	4.2968e+00
142	IHT000015	94.8167	96.9651	95.8128	5.1788e-01	4.2105e+00
143	IHT000016	88.5216	90.8654	89.5685	5.3780e-01	4.1967e+00
144	IHT000017	105.6566	108.9769	107.4456	8.1190e-01	4.2384e+00
145	IHT000018	106.9636	109.8933	108.4832	5.5844e-01	4.2411e+00
146	IHT000019	103.4781	106.2124	104.7944	5.5916e-01	4.2318e+00
147	IHT000020	105.8068	108.9318	107.3498	5.3851e-01	4.2382e+00
148	IHT000021	-2.6179	0.8977	-1.1140	6.4627e-01	4.1000e+00
149	IHT000022	92.0786	95.0083	93.4067	5.1750e-01	4.2051e+00
150	IHT000023	104.3645	107.0989	105.4191	5.4960e-01	4.2334e+00
151	IHT000024	69.3773	71.7210	70.4163	5.0600e-01	4.1600e+00
152	IHT000025	104.9392	106.8923	105.8532	4.9981e-01	4.2344e+00
153	IHT000026	105.3260	107.2792	106.3104	5.1139e-01	4.2356e+00
154	IHT000027	89.7987	92.1424	91.0799	5.1321e-01	4.1999e+00
155	IHT000028	91.5302	93.8739	92.4951	5.2558e-01	4.2030e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2058	107.7449	106.0652	5.3815e-01	4.2350e+00
157	IHT000030	107.4031	109.7469	108.3055	4.7661e-01	4.2406e+00
158	IHT000031	105.6415	108.1806	106.6611	5.0884e-01	4.2365e+00
159	IHT000032	107.1326	109.4764	107.9959	5.3828e-01	4.2398e+00
160	IHT000033	107.1552	109.3036	107.9599	5.1996e-01	4.2398e+00
161	IHT000034	93.9378	95.5003	94.7151	4.2952e-01	4.2080e+00
162	IHT000035	124.1136	125.8714	124.9340	4.2499e-01	4.2861e+00
163	IHT000036	92.6044	94.3622	93.3935	4.4110e-01	4.2050e+00

Velocity 1 = 0.008800 (ft/sec)

Velocity 2 = 0.030400 (ft/sec)

Pressure Drop = 0.002000 (psi)

Tsat in = 0.013489 (deg F) Tsat out = 0.023529 (deg F)

Phi inner = 0.189095 (kBtu/hr-ft2) Phi outer = 0.238297 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1441	0.1742
1	TRF000002	0.0632	0.0761
2	TFM000001	0.1200	0.1371
3	TIN000001	0.1454	0.1674
4	TRV000001	0.0991	0.1128
5	TSR000001	0.7994	0.6186
6	TAO020136	1.0863	1.5547
7	TAO050136	0.4416	0.2121
8	TAO070136	0.5519	0.2597
9	TAO080136	0.3136	0.2404
10	TAO090136	0.6387	0.2515
11	TAO100136	0.8907	0.3473
12	TAO105136	0.7413	0.2818
13	TAO110136	1.2924	1.3128
14	TAO115136	0.5391	0.2022
15	TAO120136	0.7213	0.2553
16	TAO125136	1.4401	0.9029
17	TAO130136	0.8630	0.3124
18	TAO120048	0.2002	0.1800
19	TAO130048	0.7100	0.2565
20	TAO120224	0.6596	0.2363
21	TAO130224	0.7942	0.2968
22	TAO120312	0.6109	0.2233
23	TAO130312	0.6020	0.2211
24	TRT020000	0.6867	0.3567
25	TRT070000	1.1759	0.9441
26	TRT100000	0.5825	0.2202
27	TRT120000	0.0840	0.0183
28	TRT125000	2.0612	2.0237
29	TRT130000	0.7224	0.2627
30	EMPTY	0.0597	0.1497
31	TAF050136	0.3035	0.2147
32	TAF070136	0.7298	0.4384
33	TAF080136	0.4944	0.2042
34	TAF090136	1.0226	1.0635
35	TAF100136	0.6000	0.2952
36	TAF105136	0.0766	0.0366
37	TAF110136	0.0199	0.0093
38	TAF115136	0.5835	0.2643
39	TAF120136	0.5636	0.2145
40	TAF125136	0.7145	0.3061
41	TAF130136	0.5438	0.2295
42	TAF120048	0.7005	0.3095
43	TAF130048	0.8904	0.3747
44	TAF120224	0.5946	0.2664
45	TAF130224	0.6863	0.2969

#	Name	Abs Diff	%Diff
46	EMPTY	0.0092	0.0241
47	EMPTY	0.0734	0.1829
48	TAI130048	0.3592	0.1303
49	TAI130136	0.6675	0.2348
50	TAI130224	0.6904	0.2463
51	TAI130312	0.7024	0.2547
52	TRR130000	5.6298	9.0242
53	TSI000001	0.3668	0.6046
54	TSI000002	2.2481	2.5317
55	TSO000001	0.2660	0.4629
56	TSO000002	0.4901	0.6430
57	TAF020136	0.3018	0.2864
58	TAF120312	0.5808	0.2611
59	TAF130312	0.6743	0.2804
60	EMPTY	0.0163	0.4026
61	EMPTY	0.0166	0.4122
62	EMPTY	0.0164	0.4094
63	EMPTY	0.0172	0.4305
64	EMPTY	0.0084	0.4356
65	EMPTY	0.0076	0.3910
66	EMPTY	0.0068	0.3484
67	EMPTY	0.0087	0.4432
68	EMPTY	0.0086	0.4368
69	EMPTY	0.0075	0.3788
70	EMPTY	0.0080	0.4026
71	EMPTY	0.0082	0.4096
72	EMPTY	0.0076	0.3783
73	EMPTY	0.0071	0.3512
74	EMPTY	0.0054	0.2659
75	EMPTY	0.0070	0.3430
76	EMPTY	0.0080	0.3907
77	EMPTY	0.0055	0.2669
78	EMPTY	0.0060	0.2891
79	EMPTY	0.0079	0.3778
80	PAN020136	0.0519	0.2935
81	PAN050136	0.2136	0.6589
82	PAN070136	0.0946	0.4283
83	PAN080136	0.0885	0.6680
84	PAN090136	0.8118	7.8952
85	PAN100136	0.4028	4.6752
86	PAN105136	0.4883	12.7467
87	PAN110136	0.4074	8.6683
88	PAN115136	0.1739	3.6807
89	PAN120136	0.0488	1.0781
90	PAN125136	0.0412	0.9124
91	PAN130136	0.0183	0.3593
92	PAN120048	0.3570	3.7204
93	PAN130048	0.0641	0.6693
94	PAN120224	0.3189	3.7788
95	PAN130224	0.0092	0.0931
96	PAN120312	0.0504	0.5575
97	PAN130312	0.0046	0.0480
98	PAB000136	0.0092	0.0228
99	PAB100136	0.0321	0.0731
100	PAB125136	0.0173	0.0386

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dif

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#	Name	Abs Diff	%Diff
101	PIN000001	0.0073	0.0182
102	PRV000001	0.1001	0.3394
103	PSR000001	0.0195	0.0433
104	PFM000001	0.0091	0.5203
105	PAN000136	0.0550	0.0416
106	PFM000002	0.0312	1.8341
107	EMPTY	0.0007	20.5882
108	EMPTY	0.7664	9.4981
109	EMPTY	0.0014	87.5000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.1953	0.1912
113	VPW000002	0.1446	0.1212
114	VPW000003	0.1719	0.1162
115	VPW000004	0.0000	0.0000
116	VPW000005	0.0820	0.0585
117	VPW000006	0.0313	0.0210
118	IPW000001	0.6640	0.1169
119	IPW000002	2.4581	0.1930
120	IPW000003	1.2874	0.0989
121	IPW000004	0.4004	0.1043
122	IPW000005	0.0001	0.0000
123	IPW000006	0.2246	0.0863
124	EMPTY	0.0017	9.0425
125	EMPTY	0.0009	6.9231
126	EMPTY	0.0017	11.5646
127	EMPTY	0.0003	2.0270
128	IHT000001	0.0234	0.0181
129	IHT000002	0.0351	0.0265
130	IHT000003	0.0937	0.0703
131	IHT000004	0.0664	0.0506
132	IHT000005	0.1406	0.1083
133	IHT000006	0.1524	0.1221
134	IHT000007	0.1250	0.0947
135	IHT000008	0.1094	0.0839
136	IHT000009	0.1446	0.1107
137	IHT000010	0.0781	0.1964
138	IHT000011	0.1328	0.1015
139	IHT000012	0.1485	0.1156
140	IHT000013	0.0391	0.0424
141	IHT000014	0.0117	0.0091
142	IHT000015	0.0312	0.0326
143	IHT000016	0.1406	0.1572
144	IHT000017	0.2773	0.2588
145	IHT000018	0.2070	0.1912
146	IHT000019	0.0937	0.0895
147	IHT000020	0.1329	0.1240
148	IHT000021	0.1641	12.8394
149	IHT000022	0.2226	0.2389
150	IHT000023	0.1836	0.1745
151	IHT000024	0.1055	0.1500
152	IHT000025	0.1289	0.1219
153	IHT000026	0.0977	0.0920
154	IHT000027	0.2070	0.2278
155	IHT000028	0.2813	0.3051

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#	Name	Abs Diff	%Diff
156	IHT000029	0.1640	0.1549
157	IHT000030	0.1563	0.1445
158	IHT000031	0.1758	0.1651
159	IHT000032	0.1601	0.1485
160	IHT000033	0.1718	0.1594
161	IHT000034	0.0156	0.0165
162	IHT000035	0.0235	0.0188
163	IHT000036	0.0391	0.0419

DATE

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END